

**ANNUAL  
REPORT  
OF THE  
DEPARTMENT OF  
PUBLIC WORKS  
THE FISCAL YEAR 1962--1963**  
**PROVIDENCE . RHODE ISLAND**

December 31, 1963

DEPARTMENT OF PUBLIC WORKSOFFICE OF THE DIRECTOR

The Honorable Walter H. Reynolds,  
Mayor of the City of Providence,  
City Hall, Providence, R. I.

Dear Sir:

The following Annual Report, made in accordance with the provisions of Section 46 of Chapter 832 of the Public Laws of the State of Rhode Island, January Session, 1940, covers the work performed during the year ending September 30, 1963 by the various Divisions of the Department of Public Works. Appended to this report and to be considered as a part thereof, are the reports of the following Divisions of this Department:

Business Management	Engineering Office
Construction and Maintenance	Sanitation
Public Service Engineer	Harbor

Contract work on the following named projects was completed during the year:

"The removal of one hundred and fifty-two elm trees on City streets affected by Dutch Elm Disease" by E. W. Cerio Tree Service.

"The removal of one hundred and twenty-eight elm trees on private property affected by Dutch Elm Disease" by E. W. Cerio Tree Service.

"Building of Sewers in Sundry Streets" by the V. F. Capaldi Const. Corp.

"Building of Sewers in Sundry Streets" by the Fanning & Doorley Const. Co. Inc.

"Furnishing and installing 2300 volt switchboard at the Sewage Pumping Station" by the Coken Company.

"Bulkhead Extension at the Municipal Dock" by the M. A. Gammino Const. Co.

"Furnishing and installing a system of Overfire Air Jets in Garbage Incinerator Unit No. 2" by the Johnson and Maylor Company, Inc.

"Public Works Highway Storage Bins and Conveying Equipment" by Conveyors, Inc.

"Construction of Public Works Office Building and Garage" by Joseph P. Flynn.

Highway construction and reconstruction consisted of the construction with Asphaltic Concrete on a penetrated stone base of 26,143 square yards of pavement by contract, the resurfacing with Sheet Asphalt and Asphaltic Concrete of 103,869 square yards of pavement by contract; and repairs to and surfacing with Asphaltic Concrete of 175,823 square yards of pavement by the Public Works Highway Forces.

New sewer construction, by contract, consisted of the building of 0.5636 miles of sanitary sewers together with drains to curb and drainage structures.

This Department has rendered assistance to various City Departments and outside agencies, including the Park, Recreation, Public Welfare, Traffic Engineering, Redevelopment, Public Safety, Water and Health Departments.

Our relations have been very cordial with the local office of the Federal Bureau Public Roads, headed by Mr. Joseph Westell, the State Department of Public Works, headed by Mr. Angelo A. Marcello; the U.S. Army Corps of Engineers; the Providence Redevelopment Agency; and the consulting Engineers on the North-South Freeway, Louisquisset Pike, Red Bridge, Hartford Avenue Redevelopment, and Fox Point Hurricane Barrier Projects and we appreciate the many courtesies and cooperation extended us.

I am very grateful for and appreciative of the splendid cooperation extended me by the City Council Committee on Public Works, comprised of Chairman Ralph Matera, Edward J. Loughran, Salvatore A. Beatini, Thomas L. Payne and Charles A. Kilvert.

I also wish to express my thanks and appreciation to other City Departments for the cooperation extended to this Department.

The successful operation of the Department is due to the untiring efforts of the Deputy Director, Division and Section Heads and their respective staffs, and my sincere thanks go to them for jobs well done.

Contract work on the following named projects is in progress:

Construction of Highways in sundry streets by Narragansett Improvement Company (1962 Contract).

Construction of Highways in sundry streets by Narragansett Improvement Company (1963 Contract).

Surfacing or reconstruction of highways by Narragansett Improvement Company (1962 Contract)

Surfacing or reconstruction of highways by M. A. Gammino Construction Company (1963 Contract).

Building sewers in sundry streets by Fanning & Doorley Construction Company.

Building sewers in sundry streets by Edward F. Capaldi, Inc.

Construction of additional facilities at the Sewage Disposal Plant by the Hart Engineering Company.

Construction of Sludge Incinerator by Ayers, Hagan and Booth, Inc.

Construction of Sludge Incinerator by Nichols Engineering and Research Corp.

## RECOMMENDATIONS.

The underside of the bridge in the Memorial, Market and Crawford Square areas should be repaired, scraped and painted.

The iron fence on the bridge at Market Square, between Westminster Street and Exchange Place should be replaced.

The furnace and combustion chamber of Garbage Incinerator Unit No. 2 should be relined.

The electric crane in Unit No. 1, which has been in service twenty-five years, should be overhauled. This work should be done under the supervision of an engineer from the Harnischfeger Corporation.

The flashing around the brick smoke stack in Unit No. 2 should be replaced.

The defective pre-heater tubes in Garbage Incinerator Boilers No. 1, 2, 3 and 4 should be replaced. Also, a number of tubes in both condensers should be replaced.

Consideration should be given to the installation of a warning system for the detection of radio active isotopes at a location in the sewer system which would allow ample time to protect personnel at the Sewage Disposal Plant from radio activity.

A number of ventilators should be installed in the roof of Plant No. 1, the smoke at times is very bad and the working conditions of the hoppermen and cranemen are not good. This condition should be relieved for it is a health hazard, and the ventilators should exhaust the smoke.

The doors in front of both garbage pits should be renewed.

Arrangements for annual inspection of turbines is necessary through manufacture representative. This has not been done for four years.

A new water jacket should be installed in Plant No. 1, around charging grate.

Shelter of some kind against radio active fallout should be provided at the Sewage Disposal Works with supplies of water, food and bedding for a maximum of 32 employees.

Replace roadway on Charles Street Bridge and paint.

Replace north section of roadway, caplogs and drive new piles of Smith Street Bridge.

Paint all Bridges.

Inspect and perform necessary work on bumpers at Crawford Street Bridge.

Crib walk at Point Street needs extensive repairs.

Relocate Bridge Maintenance Section from Harbor Masters Building at Point Street to Highway Building.

Iron fencing and grating needs repairing and painting at Point Street Bridge.

Concrete sections of Gen. Edwards Memorial Viaduct require repairing and under-section of steel work should be painted. Expansion joints need repairing.

Sidewalks on the following bridges should be completely rebuilt-- Glenbridge Avenue and West River Street.

Leland Street Footbridge should be rebuilt. The floating dock at the Harbor Master's Wharf at Point and South Water Streets is completely gone and a new one should be built.

Recommend that one of the six road graders be replaced. Two of these require extensive repairs and the stepped-up replacement plan should continue so as to cut down the cost of operation. One grader was replaced during the past year.

Merino Park Footbridge should be completely rebuilt. The piles are in very bad condition.

A maintenance gang of one foreman and six men should be set up for the construction and maintenance division to maintain the buildings of the Public Works Department; such as, The Storage and Transit Sheds at Fields Point, Fields Point Dock Office, Harbor Master's Building, House and Building at the Red Bridge, Brick Buildings at Sewer Syphon on India Street and Globe Street, Incinerator Buildings, Incinerator Garage, Sewer Maintenance Building, Highway Buildings, Forestry Buildings, and Railroad tracks at Fields Point, the Washington Park Pumping Station, the Reservoir Avenue Pumping Station and the Ernest Street Pumping Station.

There are many items that should be maintained or repaired at the present time. Some of this work has or is presently being accomplished by the Bridge Maintenance Gang and the Carpenters and Masons for the Sewer Shops and Stores and the Construction and Maintenance Shops and Stores; but it could be better accomplished by assigning a definite responsibility for this work.

Television Pictures should be taken of the following sewers to definitely determine whether or not the constant sinking of the roads on these streets are caused by fractures in the Sewers.

- (1) Elwood Sanitary Sewer across Allens Avenue. This can only be done by closing down the pumping station and drawing the liquid from the detritors at the treatment plant.
- (2) Storm sewer across Smith Street at Richter Street.
- (3) Sanitary Sewer across Smith Street at Richter Street.

IN CITY COUNCIL

MAR 19 1964

READ:  
WHEREUPON IT IS ORDERED THAT  
THE SAME BE RECEIVED.

*Vincent Vespa*  
CLERK

Respectfully Submitted,  
*Robert B. Strong*  
Robert B. Strong  
Director of Public Works

BUSINESS MANAGEMENT OFFICE

Mr Robert B. Strong  
 Director of Public Works  
 City Hall  
 Providence, Rhode Island

Dear Sir:

I respectfully submit the Annual Report of the Business Management Office of the Department of Public Works for the Fiscal Year ended September 30, 1963.

STATEMENT OF REVENUE - ESTIMATED AND ACTUAL

	<u>Budget</u> <u>Estimate</u>	<u>Net Actual</u> <u>Revenue</u>	<u>Budget</u> <u>Excess</u>	<u>Comparison</u> <u>Deficiency</u>
Business and Non-Business:				
Licenses:				
Sidewalk Contractors	600.00	530.00		70.00
Highway Privileges	1,200.00	1,030.00		170.00
Total Business and Non-Business Licenses	\$ 1,800.00	\$ 1,560.00		\$ 240.00
Special Assessments:				
Sewers	25,000.00	16,367.32		8,632.68
Total Special Assessments	\$ 25,000.00	\$ 16,367.32		\$ 8,632.68
Departmental Revenue:				
Administration		5.25	5.25	
Engineering Office		18.00	18.00	
Sewage Pumping Station		10.64	10.64	
Sewage Disposal	133,000.00	145,925.07	12,925.07	
Garbage Collection and Disposal	24,000.00	3,944.95		20,055.05
Refuse Collection and Disposal		215.00	215.00	
Highways	23,000.00	29,428.34	6,428.34	
Bridge Maintenance		65.22	65.22	
Forestry		665.74	665.74	
Sewer Construction and Maintenance	1,500.00	153.20		1,346.80
Street Lighting		101.58	101.58	
Municipal Docks	277,000.00	293,367.94	16,367.94	
Draw Bridges		32.87	32.87	
Harbor Master		8.44	8.44	
Family and Business Relocation Service		65.16	65.16	
Total Departmental Revenue	\$458,500.00	\$474,007.40	\$36,909.25	\$21,401.85
Total Statement	\$485,300.00	\$491,934.72	\$36,909.25	\$30,274.53

STATEMENT OF EXPENDITURES

FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1963

	<u>PERSONAL SERVICES</u>	<u>SERVICES OTHER THAN PERSONAL</u>	<u>MATERIALS AND SUPPLIES</u>	<u>SPECIAL ITEMS</u>	<u>EQUIPMENT OUTLAY</u>	<u>OTHER STRUCTURES AND IMPROVEMENTS</u>	<u>TOTAL</u>
General Administration	20,637.09	4,739.02	71.37		622.18		26,079.66
Business Management	31,737.61	445.65	575.40				32,758.66
Engineering Office	160,219.38	6,507.33	979.50		190.51		167,896.72
Sanitation Division							
Sanitation Administration	13,374.16	682.45	21.03				14,077.64
Street Cleaning	357,685.43	79,650.78	2,464.48		1,690.00		441,490.69
Sewage Pumping Station	71,217.60	1,784.57	3,772.80				76,774.97
Sewage Disposal	272,718.76	201,663.24	155,972.57		994.00	260,000.00	891,348.57
Garbage Collection & Disposal	632,594.62	117,098.54	18,763.23	5,087.98			773,544.37
Refuse Collection & Disposal	94,248.88	31,682.20	53.46				125,984.54
Construction and Maintenance Division							
Construction & Maintenance Admin.	7,884.00	818.20	3.58				8,705.78
Highway	716,967.49	160,705.07	130,093.78		386.25		1,008,152.59
Bridge Maintenance	50,316.33	6,573.75	14,853.48		175.00		71,918.56
Sidewalk and Curbing	19,541.17	3,952.61	1,048.82				24,542.60
Forestry	75,424.37	19,988.28	3,413.69		251.37		99,077.71
Snow Removal	98,042.14	58,829.08	60,967.28				217,838.50
Sewer Construction and Maintenance							
Public Buildings	319,378.69	65,054.10	19,271.63		192.88	125,000.00	528,897.30
Draw Bridges Operation	89,554.07	4,817.08	658.51		1,802.49		96,879.39
Municipal Dock	50,419.92	918.98	456.54	47.24			51,795.44
Harbor Master	32,950.99	27,348.90	2,209.45				62,509.34
Street Lighting	3,828.16	125.67	36.15				3,989.98
Division of Relocation	5,428.80	493,003.28					498,432.08
	45,270.89	6,649.48	493.36		35.01		52,448.74
<b>Total - Public Works Activities</b>	<b>\$3,169,440.55</b>	<b>\$1,293,038.26</b>	<b>\$416,180.11</b>	<b>\$5,135.22</b>	<b>\$6,339.69</b>	<b>\$385,000.00</b>	<b>\$5,275,133.83</b>

THE FOLLOWING SERVICES WERE ALSO RENDERED BY THIS DEPARTMENT

APPLICATIONS RECEIVED

For Altering Curb Openings for Driveways	51
Construction of Curb Openings for Driveways	244
Curbing Resets	<u>79</u>
Total Applications	374

LICENSES ISSUED

Newspaper Stands	8
Push Carts	6
Sidewalk Stands	34
Drain Layers Licenses	8
Drain Layers Licenses (Limited to Sprinkler Systems)	<u>2</u>
Total Licenses	58

PERMITS ISSUED

Public Utilities	146
Blasting	6
For Moving Cumbersome Equipment, etc.	1
Street Openings (Water Supply Board)	218
Original Permits for Sewer Connections	202
Extension of House Drains	275
Sidewalk Openings for Water Service	32
Street Openings (Other)	<u>220</u>
Total Permits	1100

Respectfully submitted,

Benjamin Cianciarulo

Business Management Office

ENGINEERING OFFICE

Mr. Robert B. Strong  
Director of Public Works  
City Hall, Providence, R. I.

Dear Sir:

Following is the Annual Report covering various activities of the Engineering Office for the Fiscal Year ending September 30, 1963.

EXPENDITURES

Item 0	Personal Services	\$160,219.38
Item 1	Services Other Than Personal	6,507.33
Item 2	Materials and Supplies	979.50
Item 5	Equipment	190.51
		<u>\$167,896.72</u>

STREET LINE AND CITY PROPERTY SECTION

Notices of Intention to Build

There were 234 notices of Intention to Build filed in this office during the Fiscal Year. Fifty of these were not required for various reasons. In response to the remaining 184 notices, the Street Lines were marked on the ground as requested for specified locations.

Field surveys on the 8 streets accepted as Public Highways by the City Council were made and the lay-out maps were drawn for office use and for the official records of the City Clerk.

Information pertaining to street lines, including records of street lay-outs, widenings, abandonments, alignment changes and name changes was furnished to Engineering Firms and Title Companies throughout the year.

Street Lines were marked out on the ground for the construction of new sewers when requested by the Sewer Section of the Engineering Office.

Street Line information was furnished Engineers for the State of Rhode Island, Department of Public Roads in conjunction with their work on the North-South Freeway.

The following streets were received by the City Council under various forms governing the acceptance of streets during the year:

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
Atkins Street	Regent Avenue to its northerly termination	292.14
Bel Air Drive	Woonasquatucket Avenue to a point 160' ft. west of Herschel Street	537.55

Christopher Street	Charles Street to Windmill Street	1022.15
Collyer Street	Cemetery Street to Matilda Street	789.00
Klondike Street	Herschel Street to a point 197.80' ft. westerly	197.80
Parente Street	Smart Street to its northerly termination	164.00
Poe Street	Seymour Street to Public Street	1841.52
Ridgeway Avenue	From a point 234.2' ft. East of Manton Avenue to Hill Crest Avenue	563.63
	Total feet (or 1.0242 miles)	<u>5407.79</u>

The following streets were abandoned during the year:

RECEIVED STREETS ABANDONED

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
Captain J. Carleton Davis Memorial Boulevard	North of Olney Street	-----
Codding Street	Cranston Street to Lester Street	160.00
Field Street	Davis Street to State Street	200.60
Knight Street	Cranston Street to a point 528.76' ft. northwesterly	528.76
Pond Street	Freeway line to a point 86.07' ft. southeasterly	86.07
		<u>975.43</u>

UNRECEIVED STREETS ABANDONED

Hayden Street	Washington Street to Fountain Street	220.50
Legg Street	Swift Street to DePinedo Street	160.00
Martha Street	Hayden Street to Beverly Street	79.95
Merrill Street	Aborn Street to its southerly termination	232.28
Ragosta Street	Di Pippo Street to its northerly termination	120.00
	Total length in feet	<u>812.73</u>

The approximate length of streets platted but not received is 43.531 miles.

The net addition during the year added to the previous total makes the length of Received Streets at the end of the Fiscal Year 1963 (Measured along property lines) 368.946 miles.

In addition to the total of Received Streets there are 3.21 miles of roadway in the Governor Dennis J. Roberts Expressway.

The following streets, all recently platted, have been added to the list of Unreceived Streets:

Jacqueline Drive	Legion Memorial Drive to Neutaconkanut Road
Roda Drive	Lecia Drive to Neutaconkanut Road
Aurelia Drive	Lecia Drive to Neutaconkanut Road
Lecia Drive	Jacqueline Drive to Sunset Avenue

City Property Plans and Surveys were made covering the following projects:

Canal Street	Locations for Law Department
Wickenden Street	Cross section and Utilities
Ives Street	" " " "
Tockwotten Park	" " " "
Fields Point	Proposed renewal of Sun Oil Lease
Salmon Street	Proposed Abandonment
Merrill Street=	Proposed Abandonment
Legg Street	Proposed Abandonment
Service Road #6	Proposed Sale
Fields Point	Proposed lease (Addition to Fields Point Manufacturing Company)
Lakeview Drive to Service Road #10	Proposed easement for sewer
Miner Street	Proposed Abandonment
Codding Street	Proposed Abandonment
Knight Street	Proposed Abandonment
Paul Street	Proposed Abandonment
Aldrich Street	Zoning Change
Kinsley Avenue	12" Standard steel guard rail
Sales & Cahill Streets	Proposed Sale
Pleasant Valley Parkway	Rosebank Avenue to Justice Street
Shipyards Street	Location of fence at Brewster Co. Lease
Nathan Bishop Jr. High School	Cross Section
Fountain Street	Old Bus Station Site
Clarkson Street	Proposed Easement
Compton Street	(portion of lot #9) Proposed Sale
Wickenden Street	Proposed Sale
Chester Avenue	Proposed Sale
Langdon Street	Radius Plan
Service Road #3	NE cor. Dike Street (Proposed Sale)
Cranston and Broad Streets	(Proposed conveyance) Anna H. Mann Estate to Redevelopment Agency
Fields Point	Proposed Road
Fields Point	Proposed Bituminous Macadam Pavement
City Line	Providence and Pawtucket (Location of Drive-in Theatre)
Wendell Street	Condemnation of Tax Lot
Rosedale Street	Condemnation of Tax Lot
Broadway	Proposed Sale (Olneyville Square Comfort Station Site)
Ellery Street	Cross Section and Utilities
Old Road	Cemetery Lots
Roger Williams Park	Elevation and location of Japanese Gardens

Lippitt Hill Project	Zoning Change
Chaffee Street	Proposed Lease of Fire Station Site
Fields Point	Proposed Sewers, Roads and Railroad Sidings
Washington Street	Proposed Parking Garage, Elevations, Sewers, Gas, Water and Telephone Line Locations
Aborn Street	Same as above
Fountain Street	Same as above
Beverly Street	Same as above
Captain J. Carleton Davis Memorial Boulevard	Proposed Abandonment
Fields Point	Proposed addition of Plumb Bituminous Distributors Lease
Blackstone Boulevard	Zoning Change
Central Classical Project	Zoning Change
Hartford Avenue	Zoning Change
Fields Point	Proposed Lease (G. E. Wilson Co.)
Robin Brook Sewer	Proposed Lease
North Burial Ground	Proposed Sale of Land (North Ave.)
Proposed Highway	199' ft. N. of Murray Street to Nancy Street- (Land to be deeded for Highway Purposes)
Webster Avenue	Zoning Change
Chalkstone Avenue	Zoning Change
Irving Avenue	Zoning Change
Wright Street	Zoning Change
Branch Avenue	Radius Plan
Grosvenor Avenue	Zoning Change

New plans were drawn during the year to assist the City Council in consideration of proposed changes in the Zoning Maps as petitioned by various persons. The following amendments were approved:

Blackstone Boulevard  
 Bridgham Street  
 Broad Street  
 Captain J. Carleton Davis Memorial Boulevard  
 Chalkstone Avenue  
 Cranston Street  
 Dorchester Avenue  
 Doyle Avenue  
 Grosvenor Avenue  
 Hartford Avenue  
 Hope Street  
 Irving Avenue  
 Olney Street  
 Webster Avenue  
 Westminster Street  
 Wright Street

Descriptions of the above approved changes were drafted and furnished the Zoning Office for incorporation in the Ordinances.

The following plans were drawn for amendments to the Zoning Ordinance that failed of passage:

Aldrich Street  
 Branch Avenue  
 Chalkstone Avenue

Chapman Street  
 Clarence Street  
 Curtis Street  
 Dearborn Street  
 DePinedo Street  
 Friendship Street  
 Hartford Avenue  
 Hyacinth Street  
 Killingly Street  
 Mt. Pleasant Avenue  
 Owen Street  
 Pavilion Avenue  
 Prairie Avenue  
 Ravenswood Avenue  
 Roanoke Street  
 Shiloh Street  
 Stanfield Street  
 Swift Street  
 Veazie Street  
 Windmill Street  
 Wright Street

The following plans were drawn for the Official Files of the City Clerk:

Vale Street	Proposed Abandonment (Portion)
West River Street	Proposed Abandonment (Portion)
Oakwood Avenue	Northerly line of Freedom Road 200' ft. southerly
Halton Street	Potters Avenue to Huntington Avenue
Lawn Street	Bolton Avenue to Glover Street
Wardlaw Avenue	River Avenue westerly to portion already received
Salvan Street	Land to be deeded for highway purposes
Danforth Street	Portion to be Abandoned
Elk Street	Proposed Abandonment
Miner Street	Proposed Abandonment
Bingham Street	Land required for Highway Purposes
Cornwall Street	Southerly line of Berkshire Street to Longmont Street
Waterman Street	Land deeded for Highway purpose
Dora Street	Atwood Street to Cumerford Street
Ophelia Street	Hartford Avenue to a point 120' ft. south of Thornton Street
Joseph Street	Lubec Street Northerly and westerly to a point 300' ft. west of angle
Eugene Street	Springfield Street to Ophelia Street
Quarry Street	Charles Street to Easterly termination
Gridley Street	Ledge Street to Bismark Street
Canonchet Street	Winthrop Avenue to Standish Avenue
Rushmore Avenue	Ada Avenue to northerly line Almira Street
Dresser Street	Melissa Street to easterly line of Flower Street
Diaz Street	Proposed Abandonment
Tingley Street	Proposed Abandonment
St. Thomas Street	Fruit Hill Avenue to Taranto Street

Windmill Street	Proposed Abandonment
Windmill Street	Portion declared Public Highway
Wardlaw Avenue	Land required for Highway Purpose
Stonellaw Avenue	Land required for Highway Purpose
Chapman Street	Proposed Abandonment (Portion)
Toronto Avenue	Proposed Abandonment (Portion)
Georgia Avenue	Proposed Abandonment (Portion)
Carolina Avenue	Proposed Abandonment (Portion)
Appian Street	North line Corina Street west of Appian Street to North line of Corina Street East of Appian Street
Newcomb Street	Coggeshall Street to Forsyth Street
West River Street	Proposed Abandonment (Portion)
Imperial Place	Land required for Highway Purposes
Smart Street	Proposed Abandonment
Belmont Avenue	Portion to be abandoned
Sixth Street	Proposed Abandonment
Niagara Street	Land required for Highway Purposes
Rodman Street	Land required for Highway Purposes
Niagara Street	Land to be deeded for Highway Purposes
Fones Alley	Proposed Abandonment
Smart Street	Job Street 200' ft. Westerly

The following plans of Street Lines were drawn for General Office Use.

Cornwall Street	Southerly line Berkshire Street to Longmont Street
Syracuse Street	Laurel Hill Avenue to its termination
Dorothy Avenue	Langdon Street to the westerly line of Robin Brook Sewer Land
Hilary Drive	Smith Street southwesterly and southeasterly to Plat division Line of John Rao Jr. Plat and Academy Park and the southwesterly 32' ft. of Hilary Drive from Plat Line to Cathedral Avenue
HillCrest Avenue	Freedom Road to Ada Avenue
Wriston Drive	Cole Avenue to its westerly termination
Barbour Drive	Wriston Drive to Faunce Drive
Maxcy Drive	Barbour Drive to Faunce Drive
Faunce Drive	Cole Avenue westerly and southerly to its termination
Woonasquatucket River	Location of fences from Park Street to Eagle Street
Leslie Drive	Mt. Pleasant Avenue to Mt. Pleasant Avenue
Compton Street	Mt. Pleasant Avenue to Smith Street
Dora Street	Atwood Street to Cumerford Street
Canonchet Street	Winthrop Avenue to Standish Avenue
Cornwall Street	Southerly line of Longmont Street to the Northerly Line of Cheshire Street
Quarry Street	Charles Street to Easterly termination
Ada Avenue	Brushill Road to HillCrest Avenue
Rushmore Avenue	Ada Avenue to the northerly line of Almira Street
Berkshire Street	Salina Street to Cornwall Street
Ophelia Street	Hartford Avenue to a point 120' ft. South of Thornton Street
Tappan Street	Hawkins Street to a point 254.05' southerly
Eugene Street	Springfield Street to Ophelia Street

Joseph Street	Lubec Street northerly and westerly to a point 300' ft. west of angle
Salvan Street	Fruit Hill Avenue to City Line
Gridley Street	Ledge Street to Bismark Street
Joseph Street	Northerly and westerly to a point 300' ft. west of angle
Smart Street	200' west of Job Street to Windmill Street

#### NORTH BURIAL GROUND

During the year 53 deeds to lots conveyed by the City and 51 certificates of Perpetual Care have been drawn. Descriptions of the lots were furnished the Superintendent. Field Surveys were made and lots staked out on the ground when requested. Elevations were taken and surveys were made for the development of two sections at the request of the Superintendent.

#### GENERAL

During the year the following work of a special nature was completed:

Location surveys were made to assist the Police Department in prosecuting license violations.

Title research work was made on various parcels of land in the City's interest.

Street Lines were reestablished, buildings located and plans made for various streets.

Surveys were made for leases of City-owned land at Fields Point.

Various street locations were given to assist the Narragansett Electric Co. and the Telephone Co. in setting new poles.

Surveys were made and plans drawn for proposed street widenings.

A survey and cross section was made and plans drawn for proposed swimming pool at Wickenden and Ives Streets.

A survey was made for proposed new leases at Fields Point.

A survey was made for location of shore line at Fields Point.

Several plans were drawn to assist the City Clerk's Office in accordance with City Council Ordinances.

Maps were made and charts prepared for Snow Removal Routes.

Measurements were taken and plans made for Public Buildings Department for Sidewalk Construction Estimates.

Measurements were taken and plans drawn to assist the Police Department in accident and murder cases.

The Annual Chart showing the incidence of certain contagious diseases was prepared for the use of the Health Department.

The Annual Tabulation of all real estate owned by the City, showing the several classifications according to usage, including current valuations furnished by the City Assessors was prepared and given to the City Controller for inclusion in the Controller's Annual Report.

Resolutions were drafted for the City Council, covering all actions relating to the acceptance and abandonment of streets, defining grades and grading and curbing streets.

Plats presented for record have been compared for the Recorder of Deeds Office and Plats for recording have been furnished the Recorder's Office under the provisions of Chapter 987 and 2118 of the Public Laws.

Descriptions of land taken by condemnation for Highways and Park purposes and for incorporation in deeds of land purchased or sold, leases and rights-of-way to and from the City, the methods by which various properties were acquired, the purpose of original purchase and present status were furnished to the Law Department and other assistance rendered as requested.

Engineering assistance was given to the Public Buildings Division, Police Department, City Plan Commission, Traffic Division, Board of Canvassers, City Clerk's Office, Tax Assessor's Office, Redevelopment Agency, Water Department and Building Inspection Division, from time to time.

Elevations were taken and grades designed and marked for new pavement on Pleasant Valley Parkway from Justice Street to Rosebank Avenue.

Surveys were made for leases of City-owned land at Fields Point.

A survey was made for Portland Cement Company lease at Fields Point.

A survey and cross section was made and plans were drawn for proposed swimming pool at Tockwotten Park.

A survey and cross section was made and plans were drawn for proposed basketball court and tennis courts at Dexter Training Grounds.

A survey was made and plans were drawn for Warehouse Road at Fields Point.

A survey and cross section were made and plans were drawn for proposed basketball court at Regent Avenue Playground.

A survey and cross section was made and plans were drawn for proposed basketball court at Smith Street Playground.

A survey and cross section was made and plans were drawn for proposed basketball court at Clarence Street Playground.

Elevations were taken at Central High School for Public Buildings Department.

A survey was made and plans were drawn for proposed swimming pool at Neutaconkanut Park.

A survey and cross section was made and plans were drawn for proposed basketball court at Nathan Bishop School.

A survey was made on Harrison Street for the City-owned Dexter Donation Property.

Plans were drawn for new guard rails along Woonasquatucket River from Gaspee Street to Eagle Street; grades were marked and construction on above project was supervised by this Department.

Location and topographic surveys were made and plans drawn showing roads, bridges, paths, trees, etc. of the Japanese Gardens at Roger Williams Park.

A survey was made on Blackstone Boulevard for the City-owned Smith Estate Property.

During the year extensive work was done for the Board of Canvassers & Registration on the proposed Redistricting of the City of Providence into new State Representative Districts based on the 1960 Census. New maps were drawn and descriptions were made for presentation to the State Representatives for their study.

A survey was made of surplus property at the U. S. Coast Guard Station at Point Judith, R. I. for the Recreation Department for proposed purchase of land adjacent to their present summer camp site. A plan of the area was drawn and a description made to accompany the request of purchase from the U. S. Government.

## HIGHWAY SECTION

Work performed in general is as follows:

ESTIMATES. of the cost of making improvements, consisting of driveways, furnishing and setting curbing, relaying pavements in driveways, changing curb as desired by 130 individuals or corporations, were furnished the Director of Public Works

BUILDING NOTICES. Grades either proposed, defined or established have been marked on the ground for parties intending to build on ten streets covering twelve applications.

CURBING. Lines and grades have been marked out for resetting curbing and paving gutters in portions of streets as requested.

PROFILES. Profiles of sundry streets, approximately 0.705 miles have been made for the purpose of defining grades. The contours of the center and side lines are shown at fifty foot stations, also the levels of the sills and ground lines of the houses adjoining the streets. The profile plans include plan views with property lines and houses shown.

STREET GRADING. Abutting owners: Grades in sundry streets have been marked out at intervals of about fifty feet for street grading or for the benefit of individuals owning abutting property.

ASSESSMENTS. The Highway Section computes Assessments for curbing and grading.

Plans and Specifications, engineering field work and inspection were furnished for the construction or the reconstruction of the following streets by the Construction and Maintenance Division, Highway Section.

<u>STREET</u>	<u>TYPE-BITUMINOUS CONCRETE</u>	<u>SQ. YDS.</u>
Aldine Street	Chalkstone Avenue to south curb of Almira Ave.	1,901
Althea Street	Cranston Street to Union Avenue	3,270
Althea Street	Union Avenue to Service Road	1,733
Atlantic Avenue	Broad Street to Melrose Street	5,830
Barbara Street	Glenbridge Ave. to west line of Bowlet St.	760
Beaufort Street	Mt. Pleasant Avenue to Lynch Street	2,477
Benevolent Street	Benefit Street to Brown Street	1,952
Benevolent Street	Thayer Street to Hope Street	2,035
Chatham Street	Silver Spring Street to Branch Avenue	2,384
Clarendon Avenue	Cole Avenue to Slater Avenue	1,483
Cloud Street	Unit Street to Lucy Street	549
Crown Street	What Cheer Avenue to City Line	1,083
Dixon Street	Elmwood Avenue to Stamford Avenue	1,089
Dover Street	Academy Avenue to Leah Street	7,836
Evergreen Street	North Main Street to Ivy Street	4,715
Flora Street	Chatham Street to Branch Avenue	1,212
Gallatin Street	Broad Street to Elmwood Avenue	9,712
George Street	Brook Street to Governor Street	3,456
Greeley Street	Charles Street to Russo Street	432
Hamilton Street	Atlantic Avenue to Adelaide Avenue	667
Hamlin Street	Elmwood Avenue to Roger Williams Park	1,818
Harlam Street	Lowell Avenue to Mercy Street	1,112
Hobart Avenue	Lloyd Avenue to President Avenue	963
Hopedale Road	Pleasant Street to Mt. Hope Avenue	874

Houston Street	Broad Street to Gordon Avenue	1,640
Hudson Street	Parade Street to Service Road	6,468
Judith Street	Sterling Avenue to Magnolia Street	1,461
Lenox Avenue	Broad Street to Melrose Street	6,602
Leo Avenue	Charles Street to City Line	1,275
Linwood Avenue	Union Avenue to Cranston Street	4,067
Lydia Street	Candace Street to Douglas Avenue	1,689
Marvin Street	Messer Street to McDonough Street	1,175
Massie Avenue	Broad Street to Baxter Street	1,564
McDonough Street	Marvin Street to Service Road	83
Meeting Street	Congdon Street to Prospect Street	1,499
Mercy Street	Intersection at Harlam Street and Sibyl Street	197
Metropolitan Road	Standish Avenue to Mt. Pleasant Avenue	1,298
Montgomery Avenue	Cyr Street to Roger Williams Park	803
Monticello Street	Russo Street to Oppen Street	1,669
Norwich Avenue	Broad Street to Baxter Street	1,677
Ogden Street	Hope Street to Lorimer Avenue	1,805
Oppen Street	Nahant Street to Social Street	904
Pemberton Street	Roanoke Street to Armington Avenue	5,114
Pratt Street	Olney Street to south line of Bowen Street	4,850
Princeton Avenue	Elmwood Avenue to Bucklin Street	1,709
Roanoke Street	Academy Avenue to Leah Street	6,209
Rosedale Street	Messer Street to Service Road	3,958
Rugby Street	Wyatt Street to Pavilion Avenue	5,361
Ruskin Street	Gallatin Street to Lenox Avenue	1,254
Sheldon Street	Benefit Street to Hope Street	3,746
Silver Lake Avenue	Murray Street to Ethan Street	1,240
Sorrento Street	Union Avenue to Wadsworth Street	4,490
South Court Street	Congdon Street to Benefit Street	816
Staniford Street	Blackstone Street to Public Street	3,009
Sterling Avenue	Terrace Avenue to Judith Street	7,930
Summit Avenue	Rochambeau Avenue to Seventh Street	6,923
Thurston Street	Elmwood Avenue to Stamford Avenue	1,089
Top Street	Chace Avenue to Tenth Street	1,653
Trenton Street	Gano Street to Governor Street	3,383
Waverly Street	Union Avenue to Service Road	1,854
West Clifford Street	Point Street to Myrtle Street	4,387
What Cheer Avenue	Laurel Hill Avenue to Pocasset Avenue	2,109
Wheaton Street	South Court Street to Bowen Street	819
Whitmarsh Street	Broad Street to Elmwood Avenue	3,400
Williams Street	Benefit Street to Hope Street	4,294
Willow Street	Messer Street to Ellery Street	1,085
Winsor Street	Smith Street to Orms Street	738
	Total	176,639

SPECIAL HIGHWAY RECONSTRUCTION BY CITY OF PROVIDENCE UNDER CONTRACT

By Narragansett Improvement Company

<u>STREET</u>	<u>TYPE</u>	<u>SQ. YDS.</u>
College Street, South Water Street to Benefit St.	Bituminous Concrete	2,209
Delaine Street, Manton Avenue to Harris Avenue	Bituminous Concrete	5,344
Gaspee Street, Railroad Street to West Exchange St.	Sheet Asphalt	3,405
Hope Street, Angell Street to Lloyd Avenue	Bituminous Concrete	5,499
Jewett Street, Holden Street to Valley Street	Bituminous Concrete	7,292
Oakland Avenue, Chad Brown Street to Eaton Street	Bituminous Concrete	2,743
Regent Avenue, Academy Avenue to Harold Street	Bituminous Concrete	4,071

<u>STREET</u>	<u>TYPE</u>	<u>SQ. YDS.</u>
Smith Street, Richter Street to Ruggles Street	Sheet Asphalt	2,294

STREET INTERSECTIONS.

Chalkstone Avenue at Mt. Pleasant Avenue	Sheet Asphalt	628
Charles Street at Branch Avenue	Sheet Asphalt	1,511
Charles Street at Silver Spring Street	Sheet Asphalt	877
Elmwood Avenue at Adelaide Avenue	Sheet Asphalt	565
Elmwood Avenue at Roger Williams Avenue	Sheet Asphalt	1,444
LaSalle Square	Sheet Asphalt	2,383
Mt. Pleasant Avenue at Leslie Drive	Bituminous Concrete	312
North Main Street at Thomas Street		673
Total under contract to Narragansett Improvement Company		<u>41,250</u>

By M. A. Gammino Construction Company

Angell Street, So. Angell Street to point west of Taber Avenue	Sheet Asphalt	4,824
Brook Street, Waterman Street to Geo. M. Cohan Boulevard	Bituminous Concrete	11,625
Eddy Street, Point Street to point north of Tallman Lane	Sheet Asphalt	4,488
Huxley Avenue, Eaton Street to Admiral Street	Bituminous Concrete	6,476
Pavilion Avenue, Prairie Avenue to Eddy Street	Bituminous Concrete	5,728
Point Street At Eddy Street	Bituminous Concrete	288
Potters Avenue Bucklin Street to Brattle Street	Bituminous Concrete	7,858
Public Street, Eddy Street to Broad Street	Bituminous Concrete	11,939
Randall Street, Charles Street to No. Main Street	Bituminous Concrete	4,822
Rhodes Street, Eddy Street to Plain Street	Bituminous Concrete	2,880
Washington Row, Exchange Place to Westminster St.	Sheet Asphalt	875
Total under contract to M. A. Gammino Construction Company		<u>61,803</u>

RECAPITULATION

By Narragansett Improvement Company	41,250
By M. A. Gammino Construction Company	61,803
Total for streets reconstructed under contract	<u>103,053</u>

Plans and Specifications, engineering field work and inspection were furnished for the grading, curbing, and construction of the following streets.

By Narragansett Improvement Company

<u>STREET</u>	<u>TYPE-BITUMINOUS CONCRETE</u>	<u>SQ. YDS.</u>
Ada Avenue	Brush Hill Road to Hill Crest Avenue	481
Avon Street	Anthony Avenue to easterly termination	692
Christopher Street	Charles Street to Windmill Street	2,364
Collyer Street	Cemetery Street to point 130 ft. south of Matilda Street	2,312
Dorothy Avenue	Langdon Street to Robin Brook Sewer	1,419
Faunce Drive	Cole Avenue to Termination	2,337
Hill Crest Avenue	Freedom Road to Ada Avenue	2,623
Lehigh Street	Allens Avenue to Poe Street	1,308
Leslie Drive	Mt. Pleasant Avenue, southeasterly, southerly and westerly to Mt. Pleasant Avenue	2,087
Longwood Avenue	North line of Kentland Avenue to City Line	701

<u>STREET</u>	<u>TYPE-BITUMINOUS CONCRETE</u>	<u>SQ. YDS.</u>
Marcy Drive	Barbour Drive to Faunce Drive	885
Parente Street	Smart Street to Termination	461
Poe Street	Public Street to Lehigh Street	6,583
Royal Avenue	Gentian Avenue to City Line	941
Savings Street	Detroit Avenue to Sassafras Street	949
Total under contract to Narragansett Improvement Company		26,113

Construction was in progress in the following streets on September 30, 1963

Atwells Avenue, Giles Place to Valley Street  
 Bath Street, Chalkstone Avenue to Promenade Street  
 Belair Drive, Woonasquatucket Avenue, to a point 160 ft. west of Herschel Street.  
 Brighton Street, Courtland Street to Vinton Street  
 Daniel Avenue, Pocasset Avenue to Plainfield Street  
 Fairview Street, Pemberton Street to Lucy Street  
 Greeley Street, Hagan Street to a point 80 ft. south of Alaska Street  
 Greeley Street, Aventine Avenue west to Angle  
 Hazael Street, Admiral Street to Douglas Avenue  
 Hillview Avenue, Bradley Street to Admiral Street  
 Klondike Street, Herschel Street to a point 197 ft. westerly  
 Knight Street, Broadway to Atwells Avenue  
 Lucy Street, Cloud Street to Almira Street  
 Messer Street, Westminster Street to Cranston Street  
 Parnell Street, Atwells Avenue to Cloud Street  
 Ridgeway Avenue, Hill Crest Avenue to a point 243.2 ft. east of Manton Avenue  
 River Avenue, Hymer Street to Admiral Street  
 Union Avenue, Messer Street to 40 ft. west of Linwood Avenue  
 West Exchange Street, Atwells Avenue to a point 65.0 ft. west of Acorn Street

Following is a list of unimproved streets ordered built by City Council Resolution, construction of which has not commenced:

<u>Street</u>		<u>Curb Ordered</u>	<u>Length In Feet</u>
Atkins Street	Regent Ave. to its Northerly Termination	Sept. 23, 1963	300
Crary Street	Allens Ave. to east line unnamed street	Dec. 5, 1940	276
Cutler Street	Newark Street to Atwells Avenue	Aug. 7, 1952	206
Greeley Street	80 ft. south of Alaska St. to Robin Brook Sewer	July 9, 1962	682
Joy Street	River Avenue to Westerly Termination	Dec. 6, 1954	400
Redwood Drive	City Line at Longwood Avenue to City Line at Royal Avenue	May 6, 1960	301
Trainor Street	Acorn Street to De Pasquale Avenue	June 20, 1935	249
Platted Street	Crary Street to Globe Street	Dec. 5, 1940	117
Total			2,531

PETITIONS TO HAVE GRADE DEFINED

<u>DATE</u>	<u>STREET AND LOCATION</u>
Jan. 20, 1955	Adie Street, from Atwells Avenue to Cedar Street
Feb. 17, 1955	Ophelia Street, from a point 120 ft. S. of Thornton Street to Wolfe St.
June 2, 1955	Aumond Street, from Edgewood Blvd. to City Line
July 7, 1955	Vespucci Street, from Douglas Avenue to Fernando Street
Sept. 1, 1955	Quenn Street, from Laurel Hill Avenue to its northerly termination
Nov. 3, 1955	Hymer Street, from Crandall Street to Seamans Street

## DATE

STREET AND LOCATION

Dec. 1, 1955	Derry Street, from Oregon Street to Geoffreys Court
May 3, 1956	Stukely Street, from Hartford Avenue to #41 Stukely Street
May 3, 1956	Westmore Street, from Niantic Avenue to Lakeview Avenue
June 7, 1956	Monticello Street, from Opper Street to Robin Brook Sewer
Aug. 2, 1956	Libia Street, from Farmington Avenue to its Termination
Sept. 6, 1956	Minnesota Street, from Woodward Road to its Termination
Feb. 7, 1957	Maria Street, from Killingly Street to City Line
Apr. 18, 1957	Stella Street, from Barbara Street to Termination
May 16, 1957	Corsica Street, from Fruit Hill Avenue to Genoa Street
May 16, 1957	Genoa Street, from Fruit Hill Avenue to Taranto Street
July 11, 1957	Hillard Street, from Manton Avenue to Pelham Street
July 11, 1957	Cowper Court, from Messer Street to Termination
Oct. 3, 1957	Duke Street, from Orms Street to Smith Street
Dec. 19, 1957	King Philip Street, from Barbara Street to Grimwood Street
May 1, 1958	York Street, from North Main Street to Steele Street
July 3, 1958	Proctor Place, from Doyle Avenue to Termination
Aug. 7, 1958	Sedan Street, from Argol Street to Termination
Sept. 4, 1958	Yorktown Place, from Linton Street to Termination
Nov. 6, 1958	Myra Street, Killingly Street to Boundry Avenue
Feb. 19, 1959	Deerfield Terrace, from Alger Avenue to Termination
Mar. 5, 1959	Sibley Street, from Crescent Street to West Termination
Apr. 2, 1959	Nye Street, from Ida Street to Merino Street
Apr. 16, 1959	Stella Street, from Barbara Street to Grimwood Street
July 2, 1959	Batterson Street, from Walsh Street to Bullock Avenue
July 2, 1959	Bullock Avenue, from Batterson Street to City Line
July 2, 1959	Hennessey Street, from Saint Thomas Street to Bullock Avenue
July 2, 1959	Rowley Street, from Batterson Street to Hennessey Street
July 2, 1959	Triggs Street, from Walsh Street to Bullock Avenue
July 2, 1959	Walsh Street, from Batterson Street to Hennessey Street
Mar. 3, 1960	Wayland Avenue, from Pitman Street to its southerly termination
Mar. 3, 1960	Togansett Road, from Niantic Avenue to Lakeview Drive
Mar. 3, 1960	Unnamed Gangway from Peter Street to Ledge Street
Sept. 1, 1960	Owen Street, from Manton Avenue to King Street
Feb. 16, 1961	East George Street, Gano Street to Butler Avenue
Apr. 20, 1961	Haswell Street, Eddy Street to Easterly Termination
May 18, 1961	Shaw Street, Langdon Street to Lakeside Street
Aug. 10, 1961	Celia Street, Hartford Avenue to northerly Termination
Aug. 10, 1961	Lakeside Street, Shaw Street to Everson Street
Aug. 10, 1961	Dorothy Avenue, west line Robin Brook Sewer to Charles Street
Jan. 18, 1962	Dipippo Street, Killingly Street to its Termination
Feb. 15, 1962	Shaw Street, Easterly Line of Lakeside St. westerly to its westerly Termination
Mar. 1, 1962	Unnamed Gangway east of Havanna St. westerly to the City Line
June 7, 1962	Dakota Street, Woodward Road to Termination
Aug. 2, 1962	Cavallatti Street, Farmington Avenue to its Termination
Aug. 2, 1962	Collyer Street, Matilda Street to the City Line
May 16, 1962	Spokane Street, Charles Street to its easterly Termination
Aug. 8, 1963	Stillwater Avenue, Brightwood Avenue to City Line

PETITIONED FOR CURBING AND GRADING

## DATE

STREET AND LOCATION

Feb. 17, 1955	Ophelia Street, from a pt. 120 ft. S. of Thornton Street to Wolfe Street
May 5, 1955	Park Row, from Edgewood Boulevard southerly to Cranston City Line
June 2, 1955	Aumond Street, from Edgewood Boulevard to City Line

DATE

STREET AND LOCATION

July 7, 1955 Vespucci Street, from Douglas Avenue to Fernando Street  
Sept. 1, 1955 Queen Street, from Laurel Hill Avenue to its Northerly Termination.  
Nov. 3, 1955 Hymer Street, from Crandall Street to Seamans Street  
Dec. 1, 1955 Derry Street, from Oregon Street to Geoffreys Court  
May 3, 1956 Stukely Street, from Hartford Avenue to #41 Stukely Street  
May 3, 1956 Westmore Street, from Niantic Avenue to Lakeview Drive  
Aug. 2, 1956 Libia Street, from Farmington Avenue to its Termination  
Nov. 15, 1956 Burton Street, from Bingham Street to Termination  
Feb. 7, 1957 Maria Street, from Killingly Street to City Line  
May 2, 1957 Hagan Street, from Charles Street to Langdon Street  
July 11, 1957 Hillard Street, from Manton Avenue to Pelham Street  
July 11, 1957 Cowper Court, from Messer Street to Termination  
Aug. 15, 1957 Grotto Avenue, from Upton Avenue to portion already received  
Oct. 3, 1957 Duke Street, from Orms Street to Smith Street  
Dec. 10, 1957 King Philip Street, from Barbara Street to Grimwood Street  
Feb. 20, 1958 Carver Court, from 53 Pleasant Street to Termination  
May 1, 1958 York Street, from North Main Street to Steele Street  
July 3, 1958 Proctor Place, from Doyle Avenue to Termination  
Sept. 4, 1958 Yorktown Place, from Linton Street to Termination  
Sept. 18, 1958 Tappan Street, from angle to Admiral Street  
Nov. 6, 1958 Myra Street, from Killingly Street to Boundary Avenue  
Mar. 5, 1959 Sibley Street, from Crescent Street to west Termination  
Apr. 16, 1959 Stella Street, from Barbara Street to Grimwood Street  
July 2, 1959 Batterson Street, from Walsh Street to Bullock Avenue  
July 2, 1959 Bullock Avenue, from Batterson Street to City Line  
July 2, 1959 Hennessey Street, from Saint Thomas Street to Bullock Avenue  
July 2, 1959 Rowley Street, from Batterson Street to Hennessey Street  
July 2, 1959 Triggs Street, from Walsh Street to Bullock Avenue  
July 2, 1959 Walsh Street, from Batterson Street to Hennessey Street  
Mar. 3, 1960 Wayland Avenue, from Pitman Street to its southerly termination  
Mar. 3, 1960 Togansett Road from Niantic Avenue to Lakeview Drive  
Mar. 3, 1960 Unnamed Gangway, from Peter Street to Ledge Street  
Oct. 20, 1960 Clarkson Street, Admiral Street to Termination  
Feb. 16, 1960 East George Street, Gano Street to Butler Avenue  
Apr. 20, 1960 Haswell Street, Eddy Street to easterly Termination  
May 18, 1961 Shaw Street, Langdon Street to Lakeside Street  
Aug. 10, 1961 Celia Street, Hartford Avenue to northerly Termination  
Aug. 10, 1961 Lakeside Street, Shaw Street to Everson Street  
Aug. 10, 1961 Dorothy Avenue, west line Robin Brook Sewer to Charles Street  
Aug. 10, 1961 Genoa Street, Fruit Hill Avenue to Taranto Street  
Aug. 10, 1961 Corsica Street, Fruit Hill Avenue to Genoa Street  
Jan 18, 1962 DiPippo Street, Killingly Street to its northerly Termination  
Feb. 15, 1962 Shaw Street, easterly line of Lakeside Street westerly to its westerly Termination  
Mar. 1, 1962 Unnamed Gangway, East Havana Street westerly to the City Line  
Aug. 2, 1962 Cavallatti Street, Farmington Avenue to its Termination  
Aug. 2, 1962 Collyer Street, Matilda Street to City Line  
May 16, 1963 Spokane Street, Charles Street to its easterly Termination  
Aug. 8, 1963 Hylestead Street, Pavilion Avenue to Termination  
Aug. 8, 1963 Stillwater Avenue, Brightwood Avenue to City Line

SUMMARY TO OCTOBER 1, 1963

The following table shows type of pavement, lengths and areas

TYPES OF PAVEMENT	LENGTHS	AREA
	MILES	SQUARE YARDS
Reinforced Concrete	0.17	3,101.0
Bituminous Concrete (Curbed)	170.16	2,885,784.1
Bituminous Concrete (Not Curbed)	6.36	111,946.0
Sheet Asphalt (Curbed)	62.42	1,547,135.5
Sheet Asphalt (Not Curbed)	0.30	4,195.0
Bituminous Macadam (Curbed)	119.44	1,827,885.0
Bituminous Macadam (Not Curbed)	2.59	41,138.0
Asphalt Blocks	0.12	958.0
Brick	0.02	197.2
Cobble	0.12	765.9
Granite Blocks	2.80	43,539.5
Waterbound Macadam (Curbed)	2.12	36,564.0
Waterbound Macadam (Not Curbed)	0.58	6,237.0
	<u>367.80</u>	<u>6,509,446.2</u>
Received (Not Improved)	1.60	
TOTAL	<u>368.80</u>	

The following work has been completed during the year - namely:

Streets paved with new material	96,208 Linear Feet
Bituminous Concrete Pavement Laid	281,868 Square Yards
Sheet Asphalt Pavement Laid	23,967 Square Yards

## SEWER AND STRUCTURAL SECTION

The duties of this section consists of the preparation of studies, plans, specifications and estimates of proposed sanitary and storm sewers, preparation of studies, plans, specifications and estimates of proposed miscellaneous structures and the field engineering and inspection work of all above projects in progress and the computation of final payments to contractors.

All records on the above are filed for future reference and all field record books are filed in fire-proof cabinets. Plans are made on cloth-mounted drawing paper of all sewer construction and all house drainage connections are plated on these plans.

Field measurements were made in sewers periodically, in order to compute the sewage flow from North Providence.

A contract for sewers in various streets by the V. F. Capaldi Const. Corp. dated May 31, 1962, was completed October 9, 1962. Final cost equalled \$49,158.01.

The streets involved are as follows with the completion dates noted.

<u>COMPLETION DATES</u>	<u>DESCRIPTION</u>
Nov. 24, 1962	Josephine Street (Now Belair Drive) from near Woonasquatucket Avenue to Woonasquatucket River Trunk Sewer.
Sept. 28, 1962	Ridgeway Avenue from present sewer 230 feet east of Manton Avenue to Hillcrest Avenue.
July 18, 1962	Blackstone Boulevard from (House #261) approximately 60 feet north of Magellan Street to Magellan Street and in Magellan Street easterly to present sewer in Magellan Street.
Oct. 9, 1962	Celia Street from approximately 700 feet north of Hartford Avenue to Hartford Avenue.
June 26, 1962	Katharine Street from approximately 80 feet north of Delaine Street to Delaine Street.

A contract for sewers in various streets by the Fanning & Doorley Const. Co., dated September 24, 1962 is now in construction. The streets involved are as follows with the completion dates noted. The value of the work done to date equals \$69,383.85.

<u>COMPLETION DATES</u>	<u>DESCRIPTION</u>
Aug. 27, 1963	Lakeview Drive from Togansett Road to Swanton Street and from Northerly termination to Swanton Street
Aug. 16, 1963	Niantic Avenue from Westmore Street to Swanton Street
Aug. 23, 1963	Swanton Street from Lakeview Drive to Niantic Avenue
June 6, 1963	Tobyhanna Street from near Niantic Avenue to Lakeview Drive
Aug. 12, 1963	Togansett Road from near Niantic Avenue to Lakeview Drive
	Truth Street from its termination to Nellie Street.

A contract for sewers in various streets by the Fanning & Doorley Const. Co. dated July 12, 1963 is now in construction. The streets involved are as follows with the completion dates noted. The value of the work done to date equals \$22,760.00.

COMPLETION DATEDESCRIPTION

Lakeview Drive from Togansett Road southerly to proposed Right of Way and southerly in proposed Right of Way to Service Road #10 and easterly in Service Road #10 to Reservoir Avenue.

Swan Street from near Eddy Street easterly to proposed Right of Way and southerly in proposed Right of Way to Mutual Street.

Westmore Street from near Niantic Avenue to Lakeview Drive.

Following are lists of streets for which sewer plans were made for submission to the Public Works Committee of the City Council:

List No.1

Sewers ordered built by the City Council which are not constructed as of September 30, 1963 exclusive of those contracted for:

City Council  
Resolution  
and Year.

LOCATION

229 1940	Bucklin Street, from near Potters Avenue to Greenwich Street.
440 1940	Niantic Avenue, from near Cranston Street to Akerman Street.
293 1951	White Street, from Powell Street to Collyer Street.

List No.2

Sewers petitioned for and referred to the Public Works Committee for further action, from October 1, 1951 to September 30, 1963.

Oct. 2, 1952	Okie Street, from its westerly termination to Bath Street.
Apr. 16, 1953	Myra Street, from near Boundary Avenue to Killingly Street.
July 1, 1954	Bullock Avenue, from City Line to Dunbar Street
Sept. 2, 1954	Groton Street, from Durfee Street to Powhattan Street.
July 7, 1955	Vespucci Street, from Fernando Street to Douglas Avenue.
Sept. 1, 1955	Queen Street, from its northerly termination to Cleveland Street.
Nov. 3, 1955	Hymers Street, from near Seamans Street to Crandall Street.
Dec. 1, 1955	Derry Street, from near Geoffreys Court to Oregon Street.
May 3, 1956	Stukeley Street, from its northerly termination to Hartford Avenue.
Aug. 2, 1956	Libia Street, from the City Line to Farmington Avenue.
Feb. 7, 1957	Maria Street, from Killingly Street to the City Line.
June 6, 1957	Cowper Court, from its termination to Messer Street.
Sept. 4, 1958	Yorktown Place, from its termination to Linton Street.
July 2, 1959	Hennessey Street, from Bullock Avenue to St. Thomas Street.
Aug. 6, 1959	Como Street, from its Northerly Termination to Ledge Street.
Mar. 3, 1960	Wayland Avenue, from East George Street to southerly termination.
Mar. 3, 1960	Unnamed Gangway from Peter Street to Ledge Street.
Feb. 16, 1961	East George Street from near Wayland Avenue to Butler Avenue and in Butler Avenue from East George Street to Pitman Street.
Feb. 16, 1961	Howe Street, from Niantic Avenue to Lakeview Drive.
	Jordan Street, from Westmore Street to Reservoir Avenue.
Apr. 20, 1961	Haswell Street from approximately 300 feet east of Eddy Street to Eddy Street.
Aug. 10, 1961	Genoa Avenue from near Taranto Street to Fruit Hill Avenue.
Aug. 10, 1961	Corsica Street from near Genoa Avenue to Fruit Hill Avenue.
Sept 21, 1961	Gage Street from near Samoset Avenue to Victoria Street
Jan. 18, 1962	DiPippo Street from its northerly termination to Killingly Street.

Mar. 1, 1962 Unnamed Gangway east of Havana Street westerly to City Line.  
 Aug. 2, 1962 Cavallatti Street from its southerly termination to Farmington Avenue.  
 Sept. 6, 1962 Joseph Street from its westerly termination to Havana Street then southerly in Havana Street to present sewer in Lubec Street.  
 May 2, 1963 Atkins Street from northerly termination to Regent Avenue  
 May 2, 1963 Clarkson Street from near Admiral Street to its easterly termination and northerly in Right of Way to Suffolk Street.  
 Aug. 8, 1963 Stillwater Avenue from near City Line to Brightwood Avenue.

SEWER ASSESSMENTS: Sewer Assessments as provided by authority of Chapter 870 of the Public Laws of the State of Rhode Island of 1901 are certified for payment by the Director of Public Works to the City Collector. Special working plans are made and areas and amounts are computed by this office and filed for permanent record.

SEWER SYSTEM STATISTICS: In order to make complete the Providence Sewer System Statistics up to the end of the Fiscal Year of September 30, 1963 the following extracts from previous reports are herein included and the mileage figures changed to the new totals.

The City is divided into four main drainage areas bounding on the Providence, Woonasquatucket, Moshassuck and Seekonk Rivers.

Combined sewers, discharging both crude sewage and storm water into rivers, were constructed in these areas between the years 1871 and 1890 to a total length of 62.7 miles.

"A" In 1890 a new method of handling sewage flow was devised and was called the improved sewer system. From 1890 to 1904, 28.1511 miles of this system was constructed with sizes varying from 6 in. to 110 in. in diameter. This system included the intersecting sewers, designed for the collection of sewage flow from older sewers which heretofore discharged into rivers, which helped toward the elimination of sewage pollution of river and harbor waters. Due to later revisions in construction the length of the improved sewer system equaled as of September 30, 1963 -52.7878 miles. (Increase this year 0.5636 miles)

"B" In 1872 the first storm sewer construction was started and as of September 30, 1963 a total of 86.5273 miles of sewers for storm water only, have been constructed and discharged into the nearest available pond or stream. (No change)

"C" The total length of the so-called regular combined sewers as of September 30, 1963 equals 323.7018 miles. (No change)

The total length (A+B+C) of all types and sizes of sewers maintained by the Sewer Division of the Public Works Department as of September 30, 1963 equals 463.0169 miles. (Increase this year 0.9319 miles)

Included in this mileage are approximately 20,145 manholes, also there are approximately 4695 inlets and 11,885 basins for collecting surface water and trapping debris before entrance into the sewers.

The normal or dry weather flow of sewage is collected and conveyed to the Sewage Treatment Plant at Fields Point. Tide Gates are installed at river outfalls to prevent tidewater or river water from entering the sewers.

The sewage from the Washington Park and Fields Point Districts, drains into a small pumping station equipped with two automatic electrically driven pumps, located on City Land at Fields Point just South of New York Avenue and from there is pumped through a cast-iron force main directly to the Sewage Disposal Plant.

A part of the sewage from the West Elmwood Districts drain into a small pumping station, equipped with two automatic electrically driven pumps, located on City Land at Reservoir Avenue and Pontiac Avenue and from there, drains into the Rutherglen Avenue gravity flow sewer.

A comparatively high level sewer collects sewage from the Elmwood and South Providence Districts and flows through gravity sewers, directly to the Sewage Disposal Plant.

Generally, with the exceptions as outlined in previous paragraphs, low level sewers collect the sewage from the remainder of the City Districts, with most of the East Side sewage flowing through an inverted syphon sewer under the Providence River at India Street, and then the sewage flows by gravity to the large pumping station at Ernest Street. At the pumping station the sewage is lifted approximately 27 feet to the high level sewer in Ernest Street and flows by Gravity to the Sewage Disposal Plant.

SEWAGE FOR YEAR FROM CRANSTON, JOHNSTON AND NORTH PROVIDENCE. By special acts of the Rhode Island Legislature, parts of Cranston sewage, and all the North Providence and Johnston sewage are allowed to enter the City of Providence Sewer System for disposal and treatment. Sewage costs are billed quarterly and the following shows the amounts billed in our fiscal year 1961-1962.

RECEIVED FROM CRANSTON. (Narragansett Brewing Company) contract dated June 1, 1955 - terms \$57.00 per million gallons 108,080,000 gallons metered and billed for \$6,160.56.

RECEIVED FROM JOHNSTON. Contract dated March 9, 1956 - terms \$57.00 per million gallons, 512,967,600 gallons, metered, estimated and billed for \$29,239.15.

RECEIVED FROM NORTH PROVIDENCE. Flow measured and computed to equal 2,850,893,090 gallons. New contract dated September 8, 1959, terms \$100,000.00 annually. Average daily flow equals 7,810,666 gallons.

PRIVATE DRAINS. In co-operation with the office of the Sanitary Engineer, a complete record is made of all sewage drainage installations in private houses. These records and record plans are made and filed by the Sewer Section of the Public Works Engineering Office and contain valuable information of interest to property owners, title searches, etc. All new work is covered by field inspection and must comply with the City Ordinances as to workmanship and materials and the work must be done by Licensed Plumbers or Drain Layers who must prove their qualifications before being issued permits by the Director of Public Works.

In the January Session of the State Legislature - Chapter 1661 - 1945, there was enacted by the General Assembly an Act to simplify the present system of Licensing Master and Journeyman Plumbers for the protection of Public Health. Sec. 8 (reads as follows) "Nothing in this Act shall prohibit any City or Town from granting a License to any person as a Drain Layer to engage in the business of Laying of Drains and Cesspools" (with the provision, that it is not required by the Holder of a State License).

For the calendar year of 1963 the Director of Public Works issued Licenses to eight Drain Layers and two special for Sprinkler System Licenses. No list of Licensed Plumbers was received from State Authorities. There was approximately 3000 Titles investigated for encumbrances of drainage facilities by Title Company investigators, and 3000 sketches of present drainage installations given to interested parties. (Owners, Plumbers and Drain Layers.)

MISCELLANEOUS WORK. During the year Specifications were written up, stencils cut and checked and the Bids were tabulated for the following:

<u>BIDS SUBMITTED</u>	<u>DESCRIPTIONS</u>	<u>ORDERED BY</u>
Oct. 2, 1962	One (1) 1/4 C.Y. Dump Truck (30,000#) with winch	Forestry Div.
Oct. 23, 1962	Screened Sand for Ice Control	Highway Div.
Oct. 30, 1962	Two (2) 1/4 wheel Drive Pick-up Trucks	Highway Div.
Nov. 7, 1962	Twenty-two (22) Reversible Snow Plows	Highway Div.
Nov. 13, 1962	One (1) 6 C.Y. Dump Truck (36,000#)	Highway Div.
Nov. 13, 1962	Seven (7) 1/4 C.Y. Dump Trucks (30,000#)	Highway Div.
Dec. 11, 1962	Four (4) 16 C.Y. Garbage & Refuse Trucks	Sanitation Div.
Dec. 18, 1962	One (1) Front End Loader	Highway Div.
Dec. 26, 1962	Diesel Fuel Oil Grade No. 2	Highway Div.
Dec. 26, 1962	Removal of 128 Diseased Elm Trees	Forestry Div.
Jan. 2, 1963	Four (4) Reversible Snow Plows	Highway Div.
Jan. 8, 1963	One (1) Heavy Duty Wrecker Truck	Highway Div.
Jan. 22, 1963	Removal of 152 Diseased Elm Trees	Forestry Div.
Feb. 26, 1963	One (1) 3 C.Y. Dump Truck (15,000#)	Sewer Div.
Mar. 5, 1963	One (1) Power Sprayer	Forestry Div.
Mar. 12, 1963	One (1) 3/4 Ton Pick-up Truck	Sewer Div.
Apr. 25, 1963	6600 ± Linear Feet Galvanized Guard Rail	Highway Div.
June 4, 1963	One (1) Utility Truck (14,000#)	Sewer Div.
July 16, 1963	One (1) 1/4 C.Y. Dump Truck (30,000#)	Sanitation Div.
July 16, 1963	Two (2) 16 C.Y. Garbage and Refuse Trucks	Sanitation Div.
July 30, 1963	Two (2) 1/2 C.Y. Street Sweeper	Highway Div.
Mar. 12, 1963	One (1) Bituminous Paver	Highway Div.

A contract was entered into with the Architectural firm of Kent, Cruise and Aldrick on October 15, 1958 for the "Preparation of Plans and other Architectural Services" for the "Public Works Highway Office Building and Garage" work was completed August 20, 1963 and final cost equalled \$46,632.70.

A contract was entered into with Joseph P. Flynn for building the Public Works Highway Office Building and Garage on May 18, 1959, work was completed June 18, 1963 and final cost equalled \$692,998.04. All Equipment Plans and Construction Plans submitted by the Contractor were approved by this office and the Architectural firm of Kent, Cruise and Aldrich.

A contract was entered into with Conveyors Inc., for building Storage Bins and Conveying Equipment including Appurtenances and Accessories on September 30, 1960, work was completed January 8, 1963 and final cost equalled \$72,236.42. All Equipment Plans and Construction Plans submitted by the Contractor were approved by this office and the Architectural firm of Kent, Cruise and Aldrich.

At Municipal Wharf - a contract was entered into with Fenton G. Keyes Associates on June 10, 1959 for the Plans and Specifications for the southerly extension of the sea wall, work was completed December 28, 1962 and final cost equalled \$80,616.64.

At Municipal Wharf - a contract was entered into with the M. A. Gammino Construction Co. for "The Bulkhead Extension of Municipal Wharf." The contract was dated July 18, 1960, work was completed December 17, 1962 and final cost

equalled \$1,724,492.13.

Added to this contract by the Board of Contract and Supply March 14, 1961 was an additional Fifty (50) foot extension making the total length of the wall 450 feet.

Plans were presented for approval of a Pedestrian and Utility Tunnel under College Street connecting Brown University John Hay Library with new Library on south side of College Street, work started in June, 1963 and was completed in July, 1963. In the course of construction approximated 112 linear feet of 12 inch sewer in College Street had to be relaid to a new grade in order to clear the tunnel. Permission to build the tunnel was granted by City Council Resolution #382 dated July 5, 1962.

Permission was granted to Brown University to abandon the portion of Manning Street between Hope and Brook Streets by City Council Resolution #197 dated March 16, 1962. The sanitary sewer in this section of Manning Street was abandoned, a new sanitary sewer was laid in the westerly sidewalk of Hope Street connecting the Manning Street sewer to the George Street sewer.

Plans and Specifications were made by "Fenton G. Keyes Associates" for the Mashapaug Pond Development and full co-operation was given by this department and any plans submitted were checked over. A contract for this work was awarded to M. A. Gammino Construction Company. The contract was dated August 24, 1962 and was completed September 1, 1963, the final cost equalled \$1,605,782.63.

J. F. White Co. was awarded the contract for construction of a Cooling Water Canal for the Narragansett Electric Co. in connection with the "Fox Point Hurricane Barrier", full cooperation was given by this department and any plans submitted were checked over. A contract for this work was awarded December 30, 1960 and is now completed. The final cost was \$1,320,000.00.

The M. A. Gammino Construction Co. was awarded the contract for construction of the "Fox Point Hurricane Barrier" full co-operation was given by this department in the preparation of the plans, any plans submitted were checked over, periodic conferences and inspections are made. The contract was dated May 23, 1961 for \$8,202,612.00 as of September 30, 1963 the estimated total equalled \$4,062,786.00.

The following Engineers are engaged on this project:  
United States Army Engineers, Boston, Mass. including the Real Estate Division.  
Engineers, Fenton G. Keyes, Associates, Providence, R. I.  
Engineers, Charles A. Maguire & Associates, Providence, R. I.  
Geologist and Engineer, Frank E. Fahlquist, Providence, R. I.

Many conferences were held in connection with the Providence Freeways, with the Public Works Department of the State of Rhode Island in regard to the disposal of storm waters from the various highways and all sewer sizes and connections to the City sewers were approved. Some of this work is now in construction.

The various projects are named as follows with the Engineers engaged in the preparation of the Plans and Specifications.

"Interstate Route 95", Charles A. Maguire & Associates, Providence, R.I.  
"Route 6 Expressway", Edwards and Kelsey, Providence, R. I.

All plans made in connection with the sewer basins and inlets required for drainage of new or rebuilt streets were made in this office.

This Division has made studies, prepared preliminary plans, conferred with other City Departments, and consulted with the State Department of Public Works, the Federal Public Roads Administration, and the contract Engineers and Architects, preparing plans and specifications for all Public Works Projects in the City.

Plans submitted by Architects, Private Engineers, the various utilities and Contractors were checked over, revised and approved for sidewalk slabs, vaults, bridge crossings and duct installations under or over streets and sidewalks.

Cost accounts, budgets, inventories, sick leaves, vacations, employee data entrances, and terminations were reported to the Finance Department. Payrolls and requisitions were made up and delivery slips forwarded.

Respectfully submitted,

Richard E. Pezzullo  
Chief of the Engineering Office.

CONSTRUCTION & MAINTENANCE DIVISION

Mr. Robert B. Strong  
Director of Public Works  
City Hall, Providence, R. I.

Dear Sir:

Following is the annual report covering activities of the Construction and Maintenance Division for the year ending September 30, 1963. This division consists of the Construction and Maintenance Administration and the following Sections: Highway, Bridge Maintenance, Draw Bridge Operation, Sidewalk and Curbing, Forestry, Snow Removal, Sewer Construction and Maintenance, Public Buildings, Street Lighting, Construction and Maintenance Shops and Stores, and Sewer Construction and Maintenance Shops and Stores.

The expenditures of the administration section were as follows:

Item 0 Personal Services	\$7,884.00
Item 1 Services other than Personal	818.20
Item 2 Materials & Supplies	<u>3.58</u>
Total	\$8,705.78

HIGHWAY SECTION

The main duty of this section is the Maintenance of approximately 340 miles of paved streets, including the repairing, patching, sealcoating, surfacing, re-surfacing or reconstruction of highways and the setting, resetting or replacing of granite curbing. This section also constructs new highways when ordered and performs miscellaneous jobs for other sections of the Department of Public Works as well as for other city departments.

EXPENDITURES

Item 0 Personal Services	\$716,967.49
Item 1 Services other than Personal	160,705.07
Item 2 Materials and Supplies	130,093.78
Item 5 Equipment	<u>386.25</u>

Total \$1,008,152.59

Revenue 29,428.34

DRIVEWAYS & CURBING

Driveways Altered (Narrowed)	2	2' Circular Corners Set	438
Driveways Constructed	256	S.B. Corners Set	64
Driveways Widened	40	Curbs Set & Reset	5782
Driveways Closed	12	Driveways Relogated	22

RECEIVED STREETS REPAIRED AND SURFACED OR RESURFACED

1962 - 1963  
Total A C Tonage

Barbara Street	Glenbridge Ave. to Ophelia	106.75	Tons
What Cheer Ave.	Laurel Hill to Pocasset	191.45	"
Crown Street	What Cheer Ave. to City Line	109.	"
Sterling Ave.	Terrace Ave. to Judith	756.75	"
Madith Street	Sterling to Magnolia St.	148.	"
Harlam Street	Sibyl St. to Lowell Ave.	96.	"
Linwood Ave.	Union Ave. to Cranston St.	400.	"
Waverly Street	Huntington Ave. to Union St.	156.	"
Sorrento Street	Union Ave. to Wadsworth St.	480.	"
Marvin Street	Messer St. to Huntington Ave.	96.	"
Althea Street	Union Ave. to Cranston St.	347.10	"
Willow Street	Ellery St. to Messer St.	96.	"
Rosedale St.	Messer to Huntington Ave.	372.	"
Princeton Ave.	Bucklin to Elmwood Ave.	156.	"
Hudson Street	Parade to Huntington Ave.	586.	"
Whitmarsh Street	Broad to Elmwood Ave.	420.	"
West Clifford St.	Mytle to Point Street	384.	"
Meeting St.	Congdon to Prospect	156.	"
Atlantic Ave.	Broad to Melrose	660.	"
Lenox Ave.	Broad to Melrose	764.	"
So. Court St.	Congdon to Benefit Sts.	96.	"
Pratt Street	Bowen to Olney Sts.	545.05	"
Hamilton Street	Atlantic Ave. to Adelaid Ave.	352.	"
Massie Ave.	Broad St. to Baxter St.	144.	"
Houston Street	Broad St. to Gordon Ave.	156.	"
Wheaton Street	So. Court St. to Bowen	85.25	"
Staniford Street	Blackstone to Public St.	329.	"
George Street	Brook St. to Governor St.	360.	"
Rugby Street	Wyatt to Pavilion Ave.	552.	"
Althea Street	Union Ave. to Huntington Ave.	100.	"
Norwich Ave.	Baxter to Broad	132.	"
Benevolent St.	Benefit to Brown	372.	"
	Thayer to Governor		
Montgomery Ave.	Cyr. St. to Roger Wms. Park	104.	"
Gallatin Street	Broad to Elmwood Ave.	940.	"
Ruskin Street	Gallatin St. to Lenox Ave.	120.	"
Hamlin Street	Elmwood to Roger Wms. Park	216.	"
Thurston Street	Elmwood to Roger Wms. Park	168.	"
Dixon Street	Elmwood to Roger Wms. Park	120.	"
Sheldon Street	Benefit to Hope	447.55	"
Hopedale Road	Pleasant to Mt. Hope Ave.	66.10	"
Williams Street	Benefit to Hope	326.85	"
Silver Lake Ave.	Murray St. to Union Ave.	157.25	"
Trenton Street	Governor to Gano	351.50	"
Clarendon Street	Cole to Slater Aves.	161.60	"
Summit Ave.	Rochambeau to Seventh St.	716.05	"
Hobart Ave.	Lloyd Ave. to President Ave.	96.85	"
Top Street	Entire Length	145.55	"
Ogden Street	Hope to Lorimer	157.40	"
Evergreen Street	North Main to Ivy	436.35	"
Lydia Street	Gandace to Douglas	162.55	"
Winsor Street	Francis to Orms	72.55	"

Monticello Street	Russo to Oppen	132.85	Tons
Leo Ave.	Charles St. Easterly	132.90	"
Flora Street	Chatham to Branch	121.05	"
Oppen Street	Nahant to Social	84.80	"
Greeley St.	Charles to Russo	36.30	"
Chatham Street	Silver Spring to Branch	217.60	"
Pemberton St.	Roanoke to Armington	596.	"
Roanoke St.	Academy to Leah St.	703.40	"
Dover Street	Academy to Leah St.	851.40	"
Lynch Street	Manton to Atwells Ave.	85.40	"
Metropolitan Rd.	Standish to Mt. Pleasant Ave.	215.35	"
Beaufort Street	Mt. Pleasant to Lynch	305.25	"
Aldine Street	Chalkstone Ave. to Almira	182.70	"

RECEIVED STREETS STARTED 1961-62 COMPLETED 1962-63

Winthrop Ave.	Chalkstone Ave. to Cannonchet	169.00	Tonage
Gentian Ave.	Texas Ave. to City Line	625.30	"
Almira Street	Imera to Aldine	207.15	"
Kentland Ave.	Admiral to Gentian	386.80	"
Sparrow Street	Oakland to Ruggles St.	84.65	"
Ruggles Street	Smith to Chad Brown	247.40	"
Oxford Street	Ocean to Prairie Ave.	246.00	"

RECEIVED STREETS STARTED 1962-63 INCOMPLETE SEPTEMBER 30, 1963

Hazael Street	Admiral to Douglas	384.30	Tonage
Hillview Ave.	Bradley to Admiral	183.	"
River Ave.	Hymen to Admiral	290.65	"
Parnell Street	Entire Length	89.05	"
Fairview Street	Entire Length	73.50	"
Pleasant Valley Pkwy.	Rosebank to Justice	1144.85	"
Lucy Street	Parnell to Almira	134.20	"

UNRECEIVED STREETS REPAIRED AND SURFACED OR RESURFACED  
1962 - 1963

Total A. C. Tonage

Adams Street	Knight St. to Piedmont St.	64.	Tons
Dakota Street	Woodward Rd. to Dead End	240.	"
Squanto Street	Woodward Rd. to Wanskuck Co.	60.	"
Newport Street	Woodward Rd. to Wanskuck Co.	84.	"
Iowa Street	Woodward Rd. to Dead End	136.	"
Minnesota Street	Woodward Rd. to Dead End	156.	"
Groton Street	Durfee to Powhatan St.	242.95	"
Alexander Street	Santiago to End	96.	"
Nye Street	Ida to Petteys Ave.	206.	"
Queen Street	Cleveland to Playground	56.80	"
Sevier Street	Plainfield to Mercy	24.	"
Kitchner Street	Killingly to City Line	60.	"
Ida to Nye Street	Dead End	31.5	"
Hale Street	Bowdoin to Putnam	39.55	"
Peter Lane		75.10	"
Murphy Street	Entire Length	43.85	"
Cutler Street	Atwells Ave. north to Newark	98.30	"
Goulding Street	Transit to Wickenden St.	25.	"
Maxons Lane	John to Arnold	37.95	"
Cloud Street	Unit to Parnell	50.90	"

UNRECEIVED STREETS STARTED 1962 - 63  
INCOMPLETE SEPTEMBER 30, 1963

Brinkley Street		211.65 Tonage
McClellan Street		125.65 "
Dale Street	Atwells Ave. to W. Exchange	71.10 "

PATCHING AND REPAIRING SUNDRY STREETS

Patching materials used for temporary repairs were purchased from private vendors. Approximately 340 miles of highway were maintained during the fiscal year. Materials used on general patching and repairing were as follows:

Ready Mixed Concrete ... 45.5 Cu. Yds.	Crushed Stone -----
A. C. Mix.....1763.10 Tons	Kerosene .....1232. Gals.
Crushed Gravel..... 202.63 Tons	Sand..... 211 Tons

Materials used on surfacing and resurfacing were as follows:

A. C. Mix.....	21,913.70 Tons
Cement.....	73 Bags
Crushed Stone 2".....	155.98 Tons
Kerosene.....	8,618 Gallons
Sand.....	103,44 Tons

Materials used in repairing sidewalks due to damage caused by tree roots and by removing trees with Dutch Elm disease were as follows:

Cement.....	1127	Bags
Gravel 1-1/2".....	352.27	Tons
Sand.....	684.63	Tons
A. C. Mix.....	815.50	Tons

MISCELLANEOUS WORK

During the past year the Highway Section performed services for the Engineering Division, Bridge Maintenance, Draw Bridges, Harbor Master, Sidewalk and Curbing, Forestry, Public Buildings, Sewer Maintenance, Sewage Disposal, Garbage Incinerator, Municipal Wharf, City Sergeant and the Park, Recreation, Health, Welfare, Police & Fire Department, Chapin Hospital, Rhode Island Hospital, Municipal Garage and Traffic Engineering. And, a list of the work performed is as follows:

1. Hauling fill for Fields Point and Manton Avenue dumps.
2. Resurfaced road and truck parking area at new Tuna Building on Municipal Dock.
3. Graded dumps at Fields Point, Gano Street, Mount Pleasant Avenue, Smith Street, Manton Avenue and Hartford Avenue.
4. Resurfaced roadways in Roger Williams Park, Chapin Hospital and Pleasant Valley Parkway.
5. Erected and removed bandstands for Columbus Day, Armistice Day and Labor Day Celebrations, also for various Veterans and Civic Organizations for dedications and memorials.

6. Assisted in the decorations for the City of Providence for Christmas and Fourth of July celebrations.
7. Set up and removed equipment at the various voting places in the City of Providence for the Board of Canvassers.
8. Removed rubbish from City Hall.
9. Worked on the removal of large sand hill on leased land by the Sun Oil Company at Fields Point.
10. Moved and put in storage the personal belonging and furniture of many families evicted by the courts and being helped by the Welfare Department.
11. Cleaned River Bank along Promenade Street.
12. Performed Permanent Maintenance on the following streets: Elmwood Avenue, Smith Street, Broad Street, Branch Avenue, Angel Street.

LAWNS AND GRASS PLANTS MAINTAINED

Cohan Boulevard	Eight St. & Lorimer Ave.
Oakland Avenue	Slater Ave. and Goldsmith St.
Kinsley Avenue	Sewer Disposal Grounds
North Main Street	Eddy St. and Ship Street
Franklin Square	Market Square
Elmgrove Avenue	Cemetery Street
Chad Brown Street	Pitman Street
Atwells Avenue	Gov. Roberts Expressway

BRIDGE MAINTENANCE SECTION

This section is responsible for the repair and maintenance of all city-owned bridges. The expenditures of the section were as follows:

Item 0	Personal Services	\$50,316.33
Item 1	Services other than Personal	6,573.75
Item 2	Materials and Supplies	14,853.48
Item 5	Equipment	<u>175.00</u>
	Total	\$71,918.56

Revenue	65.22
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There are 60 city-owned bridges, of which the following 31 required work this year.

Point Street Bridge	Merino Park-Foot Bridge
Red Bridge	Merino Bridge-Glenbridge Avenue
Dyer Street Bridge	Manton Avenue Bridge-City Line-Manton Ave.
Weybosset Bridge	Smith Street Bridge
Washington Row Bridge	Pettis Street Bridge
Canal Street Bridge	Cemetery Street
Promenade Street Bridge	Charles Street R.R.
Gaspee Street Bridge	Veazie Street
Park Street Bridge	Adelaide Avenue Foot Bridge--over R.R.
Leland St. Foot Bridge	Roger Williams Avenue--Railroad Bridge
Acorn Street Bridge	Gen. Edwards Memorial Viaduct
Atwells Avenue Bridge	Gov. Roberts Expressway--Harris Ave.
Delaine Street Bridge	Gov. Roberts Expressway-Plainfield St.

Gov. Roberts Expressway - Hartford Ave.  
Gov. Roberts Expressway-Westminster St.  
Gov. Roberts Expressway-Broadway  
Gov. Roberts Expressway-Huntington  
Harris Ave. Ramp.

The following work was also done:

1. Repaired sidewalks on the following bridges: Point, Red, Glenbridge Avenue, Roger Williams, Smith, Park Cemetery, Acorn and Leland.
2. Repaired roadways on the following bridges: Cemetery, Smith, Acorn, Park and Gen. Edwards Memorial Viaduct.
3. Repaired the following footbridges: Merino Park, Leland and Adelaide.
4. Painted railings on Gov. Roberts Expressway.
5. Trimmed steel deck of red bridge.
6. Repaired expansion plates Gov. Roberts Expressway and Gaspee Street.
7. Repaired and painted guard rails on Gov. Roberts Expressway and Woodward Road.
8. Replaced wooden beams under north sidewalk and rebuilt sidewalk of Delaine Street Bridge.
9. Installed new sub-deck, top-deck and sidewalk. Repaired or replaced stringers, piles and caplogs on Park Street Bridge.
10. Painted the following bridges: Delaine, Atwells, Acorn, under sidewalk on Adelaide Ave. foot bridge.
11. Repaired fences on Nash Lane Bridge (Pettis) Leland Street and Pleasant Valley Parkway.
12. Worked with Forestry Section to plant some 200-250 trees along Broad St. and other streets.
13. Rebuilt wall at incinerator and replaced bumpers at unloading stations.
14. Inspected underside of Market Square with Seaboard Construction Co.
15. Cleaned River along Promenade and Kinsley Ave. from Francis Street to Eagle Street.
16. Replaced wood sub-deck, reinforced roadway beams and painted Atwells Ave. Bridge.
17. Prepared Point Street Bridge for opening and cleaned engine room walls and machinery.
18. Worked on railroad switches at Fields Point.
19. Repaired expansion joints on Reservoir Ave. R. R. Bridge.

## SIDEWALK & CURBING SECTION

This section is responsible for the condition of all sidewalks in the City. It serves notices on property owners for the repair, construction or reconstruction of sidewalks; inspects all sidewalks work; makes temporary minor repairs to sidewalks; and is responsible for the posting and maintenance of street signs and memorial square signs.

The expenditures of this Section were as follows:

Item 0	Personal Services	\$19,541.17
Item 1	Services other than personal	3,952.61
Item 2	Materials & Supplies	1,048.82
	Total	<u>\$24,542.60</u>

Revenue:		
Sidewalk Contractor's Licenses	\$	530.00

The operations of this Section were as follows:

Sidewalk Contractor's Licenses Issued	53
Notices served to build or repair	395
Built or repaired	128
Permits to build or repair	568
Sewer openings inspected	149
Construction of curb openings for driveways inspected	265
Memorial Sq. Signs repaired & relettered	24
Sidewalks damaged due to tree roots inspected	492
Sidewalks inspected after installation of new water services.	166
Streets abandoned by Council and signs erected	10
Washout depressions inspected and repaired	259
Sidewalk Claims Investigated	46
Street Signs repainted and relettered	50
Street names changed by Council and new signs erected	4
Pole openings inspected	140
Total Lin. Ft. of Bituminous sidewalks built	27,077
Total Lin. Ft. of cement sidewalks built	11,991

This section replaced 1170 defective street signs with new black and white metal signs.

This section also made a survey of all sidewalk conditions in conjunction with the road resurfacing program on the following streets:

Atwells Ave.	Daniel Ave.	Potters Ave.
Angell St.	Eddy St.	Public St.
Bath St.	Knight St.	Randall St.
Brook St.	Messer St.	Union Ave.
Brighton St.	Pavilion Ave.	Washington Row
West Exchange St.	What Cheer Ave.	Rhodes St.

## FORESTRY SECTION

This Section is responsible for the planting, care, maintenance and removal of trees and shrubbery within the limits of the highways:

EXPENDITURES

Item 0 Personal Services	\$75,424.37
Item 1 Services other than personal	19,988.28
Item 2 Materials and Supplies	3,413.69
Item 5 Capital Outlay	<u>251.37</u>

Total \$99,077.71

Revenue: \$ 665.74

Less than one percent of the trees on our streets are diseased or in poor condition. The diseased trees are being removed and replaced by trees from the nursery. This program of demolition and replacement, the so called "Dutch Elm Program", is closely coordinated with the oversll program for the control of this disease being pursued by State of Rhode Island Department of Agriculture and Conservation.

Three hundred and forty-three (343) diseased Elm trees were condemned and removed this year. One hundred and fifty-two of these trees were on City streets and one hundred and twenty-eight (128) on private property. The Forestry Section removed sixty-three (63) trees and the remainder was taken down under private contract.

The following is a recapitulation of the Dutch Elm trees removed:

Forestry Department	63
E. W. Cerio (City Streets)	152
E. W. Cerio (Private Property)	<u>128</u>
Total	343

The Nursery at Roger Williams Park consists of Maidenhair trees, London Plane, Mountain Ash, Western Catalpa, Pin Oak, Locust and Maples. The cultivation and growth of these trees are progressing well. These trees are being used to replace the diseased trees which were removed and, also, to increase the shade trees on our City streets. At present there are 107 trees in the Nursery.

Number of trees pruned	8,633
Number of trees removed	1,106
Number of trees sprayed	3,201
Number of trees planted	1,365

SNOW REMOVAL

Expenditures

Item 0 Personal Services	\$98,042.14
Item 1 Services other than Personal	58,829.08
Item 2 Materials & Supplies	<u>60,967.28</u>

Total \$217,838.50

Snow Removal is primarily a function of the Highway Section. All the Ice Control (Sanding, Salting, Etc.) is accomplished by this Section. The plowing is performed in the following manner.

Zone 1-2-3-8-10	By the Incinerator Trucks
Zone 4-5-6-9-13	By the Highway Trucks
Zone 7	By the Forestry Trucks
Zone 11-12	By the Sewer Trucks

Thirteen main routes of the City are plowed in tandem by hired trucks working under the supervision of Zone Supervisors. All hills and main highways are sprayed with Salt.

For the Fiscal Year 1962-63 the City had 14 snow storms. The first on October 25, 1962, and the last on March 24th, 1963 with a total of 28.4 inches. During this period the following work was completed:

Sanding Streets	15,748 miles
Plowing Streets	9,133 miles
Removal of Snow (Business Area, Churches and Funeral Homes)	1,320 Cu. Yds.

The following materials were used during the year:

Sand	7493.35 Tons
Salt	3,500 Tons

The following Equipment was hired from private contractors:

Trucks	76	Hours	640
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#### SEWER CONSTRUCTION & MAINTENANCE SECTION

This Section is responsible for the inspection, Maintenance, Cleaning, Repairing, Construction and reconstruction of the Sewers and Sewer Appurtenances; such as, Manholes, Catch Basins, Inlets, etc., of the Sewer System.

#### EXPENDITURES

Item 0 Personal Services	\$319,378.69
Item 1 Services other than Personal	65,054.10
Item 2 Materials and Supplies	19,271.63
Item 5 Capital Outlay	192.88
Total	\$403,897.30

#### MAINTENANCE AND CONSTRUCTION WORK PERFORMED

Manholes rebuilt and repaired	35
Defective or broken manhole covers replaced	45
Chutes repaired or rebuilt	50
Catch Basin Covers replaced	60
Catch Basins repaired or remodeled	52
Broken gutter grates replaced	25
Broken inlet stones replaced	75
Traps replaced and/or repaired	25
Manhole frames replaced and/or repaired	28
Catch Basin frames replaced or reset	24
Manhole covers and frames reset	75
Sewer Lines and Connections repaired	40
Manholes cleaned by hand	46
New catch basins built	15

Standpipes rebuilt	0
New manholes built	5
New gutter grates built	10

Basins, Gutter Grates and Sumps Cleaned: Deposits Removed, Lines Flushed, and Complaints Received

Basin Inspections	18,521	
8931 Catch Basins Cleaned	16,940.52	Cu. Yds.
280 Sumps Cleaned	1112	Cu. Yds.
793 Gutter Grates Cleaned	471.6	Cu. Yds.
1500 Complaints Received	All Cleared	
Sewer Lines Flushed	38,525	Feet
289 Open Drains Cleaned	1,273	Feet
Gasoline Drainage Location Inspections	11	

Following is a Resume of Private Drain Inspections made in Conjunction with private construction & alterations:

Street Openings for Private Drain Connections	45
Inspection and Record Sketches for Private Drain Construction and Alterations:	

Original	202 Extensions	275
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WORK PERFORMED IN CONJUNCTION WITH HIGHWAY SECTION

Catch Basins brought to grade	36
Manholes brought to grade	304

SPECIAL WORK

Received a call to inspect sewer line on Bogman Street. We found in two different locations, one opposite 91 Bogman Street and one opposite 52 Bogman Street. 12" V.C. Pipes had to be replaced. Excavated trench in each section 12' long, 3' wide and 13' deep. This job was back filled and completed.

Greeley Street, build two new catch basins and raised to new grade five manholes.

North East Corner of Point and Eddy Streets, installed flap gate.

Revamped catch basin in driveways at 76 Farragut Avenue, and also at 84 Ledge Street. This work was done free of cost to the tax payers.

Barbara Street, flush 300' and removed 8 yds. of dirt.

Valley Street, flush approximately 200' and removed 6 yds. of dirt.

South Water Street was flushed for 400' and 32 yds. of sand removed.

Massachusetts Avenue, flushed approximately 200 yds. and removed about 7 yds. of dirt.

Vermont Avenue, flushed about 250' and removed approximately 9 yds. of sand.

Elm and Eddy Streets, rebuilt new manhole that was damaged by Water Works.

Hudson and Ellery Streets, North East Corner, build new basins and connected to manhole.

Manton Avenue dump - Laid 160 ft. of 36 in. pipe and built 2 manholes in the Manton Avenue dump extending out toward the river. This job is partially completed.

Replaced 40 ft. of 8" Sanitary line on Plain and Bowen Streets.

Repaired broken connection to manhole on Cedar Street.

Installed 2 new Catch Basins and connected same into sewer main and raised 12 manholes.

Raised Manholes and Catch Basins to Grade on Christopher Street.

Raised Manholes on Spokane and Star Streets.

Hamilton Street and Congress Avenue, North East Corner, dug up basin connection that was full of roots and replaced with new pipe.

Received many calls from the Police in regards to cleaning out catch basins where they felt goods were deposited.

Traps and chutes throughout the year were cleaned, but no records are kept. This amounts to several hundreds.

In connection with regular work, we inspected and flushed sewer lines at many other locations.

General - Received and attended to many calls for the removal of objects from Catch Basins; such as keys, watches, dead and live animals, etc., some of these requests having come to us from the Police Department.

In connection with our regular daily work, we examined and cleaned and flushed sewer lines at many different locations.

Records are not kept of the exact number of traps and chutes cleaned through the year, but the number of such examinations and cleanings run into the thousands.

#### PUBLIC BUILDING SECTION

This Section is responsible for the preparation of plans and specifications for the Construction, Maintenance, Remodeling and repair of all Public Buildings owned by the City. A Drafting Room where plans and specifications are prepared and a shops and stores room are located in the West End of the Municipal Garage Building on Ernest Street. The building trades workers employed by the Section use the shop for fabricating some of the wood and metal fixtures used in the renovation and repair of the buildings. Employees of this Section supervise the various construction projects.

EXPENDITURES

Item 0	Personal Services	\$89,554.07
Item 1	Services other than Personal	4,817.08
Item 2	Materials and Supplies	658.51
Item 3	Special Items	47.24
Item 5	Equipment Outlay	1,802.49
	Total	\$96,879.39

During the year we supervised the construction of

Camden Avenue School  
Danforth Street Recreation Center  
Triggs Memorial Park Clubhouse  
Fox Point Little League Field  
Tockwotton Park Swimming Pool

This included supervision of supplementary details, inspection at the site, writing specifications for equipment where necessary, etc.

This Division prepared plans and specifications where necessary and supervised the work to be done at the following schools:

Asa Messer	Boiler Burner Installation
Beacon Avenue School	Exterior Painting
Berkshire Street	Roofing and Sheet Metal Work
Broad Street	Cornice Repairs
Broad Street	Roofing and Sheet Metal Work
Central High	Plastering
Classical High	Plastering
Edmund Flynn	Exhaust Fan and Hood and Ceiling Repairs
Edmund Flynn	Paving and Site Improvements
Fox Point Elementary	Acoustic Ceiling and Misc. Repairs
Gilbert Stuart Jr. High	Installation of Fire Alarm Bells in Boys' Shower Room
John Howland	Retubing of Boiler
Joslin Street	Retaining Wall
Joslin Street	Repairs to Boiler
Lexington Avenue	Yard Paving
Mount Pleasant High	Limestone and Masonry Treatment
Mount Pleasant High	Heating Coil Installation
Mount Pleasant High	New Boiler Feed Lines
Mount Pleasant High	New Hot Water Tank
Nathan Bishop Jr. High	Retubing Boiler
Nathan Bishop Jr. High	Copper Flashing repairs
Nathaniel Greene Jr. High	Retubing Boilers
Nathaniel Greene Jr. High	New Tile Floor - Cafeteria
Nathaniel Greene Jr. High	Boiler Repairs
Nelson Street	Modernizing Toilets
Oliver H. Perry Jr. High	Traps, Valves and Misc. Repairs to Heating System
Ralph Street	Masonry Treatment
Sisson Street	Retaining Wall, Fence, Yard Paving and Sidewalks
Temple Street	Electrical Repairs and new Electrical Installation

Schools (Cont.)

Veazie Street	Repairs to Copper Flashing
Veazie Street	Skylights, Roof and Masonry Repairs
Vineyard Street	Electrical repairs
Vineyard Street	Roofing and Sheet Metal Work
George J. West Jr. High	Painting and Decorating Auditorium

Work done for the School Department by Public Building forces:

Branch Avenue	Interior Painting
Lexington Avenue	Interior and Exterior Painting and Painting of Fire Escapes
Sisson Street	Interior Painting
Nelson Street	Plumbing Alterations

Work done by this Division for other departments:

Prepared specifications and drawing and supervised work of fire damage repairs at the Nathan Bishop Junior High School.

for Bureau of Police and Fire:

Headquarters Building	Relocating Emergency Generator
" "	Retubing No. 3 Boiler
" "	Misc. Plumbing Repairs
" "	Installation of Floor Tile
" "	Painting of Boiler Room

Fire Stations:

Rochambeau Avenue	Installation of Gasoline Tank
Academy Avenue	" " " "
Mount Pleasant Avenue	" " " "
Rochambeau Avenue	Roof Repairs
Academy Avenue	" "
Humboldt Avenue	" "
Point Street	" "
Admiral Street	" "
Messer Street	" "
Brook Street	" "
Atwells Avenue	Unit Heater Installation
Admiral Street	" " "

and Miscellaneous plumbing, heating and electrical repairs.

For Bath Houses and Comfort Stations:

Weybosset Street Comfort Station - Installation of Boiler Burner

Miscellaneous plumbing, heating, electrical, carpentry and roof repairs at the bath houses and comfort stations.

Work done for the City Sergeant's Department including writing specifications where necessary:

City Hall:

Installation of new Electrical Fixtures in the following offices:

Board of Canvassers  
Public Works Office  
License Bureau  
Purchasing Department  
Public Buildings  
City Plan  
State Auditors  
Printing Shop

and installation of electrical outlets in Controller's Office

Floor repairs and new floor tile installation in:

Finance Office  
City Clerk's  
Purchasing  
Collectors

also: Board of Canvassers - Painting and Plastering

Board of Canvassers	Repairs to Vault
Probate Court	Plastering
License Bureau	Painting
City Clerk's	New Aluminum Windows

and miscellaneous roof repairs at City Hall and at Annex at Fountain Street.

Also: New Lighting and Heating for X-Ray Room for Health Department - Fountain Street

For Charles V. Chapin Hospital:

Supervised drawing of specifications and plans and supervision of the work for

Installation of Sprinkler System; also

Administration Building	Roof Repairs
Lippitt Building	" "
East Building	New Skylights and Masonry repairs
Ambulance Garage	New Slide-Up Doors
Hindle Building	Installation of new wiring
Psychopathic Ward	Installation of Steam Traps and Misc. Heating Repairs

for Park Department:

Supervised drawing of specifications and plans and supervision of the work for

Repairs and Renovations at the Bird House; also

supervision of work of electrical installation of Christmas Display and rewiring of Maintenance Building at Triggs Park.

for General Public Assistance:

Provided at the Bellevue Avenue District individual offices on the second floor for consulting services including electrical, plumbing, heating, carpentry work and also roof repairs.

for the Public Works Department:

Storage Shed, Municipal Wharf Installation of new Slide-Up doors and Copper Flashing and Masonry Repairs

This Division wrote specifications for and supervised the work of demolition of structures at Aborn, Washington, Beverly and Fountain Streets and at Fountain, Worcester and Eddy Streets and paving for this area.

for North Burial Ground:

Office Building	Boiler Burner Installation
" "	Rewiring of Electrical System
Superintendent's House	Extensive plumbing, electrical and Carpentry work

and also painting of fence.

for Providence Civil Defense:

Oxford Street	Roofing and Sheet Metal Work
" "	Heating Repairs
" "	Electrical repairs
Chad Brown Street	Electrical Repairs and Installation

for Recreation Department:

Construction of Sayles Street Playground  
Construction of Outdoor Basketball Courts at:

Columbia Park  
Knight and Tell Streets  
Smith Street  
Regent Avenue  
Clarence Street  
Dexter Street  
Chain Link Fences at  
Joslin St. Rec. Field  
Howell Street  
Danforth St. Rec. Field

Plumbing and Heating Alterations at

Collyer Park Playground  
Sackett Street "  
Camp and Cypress  
Hopkins Park  
Dudley Street  
Joslin Street

Roof repairs at

Merino Park  
Mount Pleasant

Junior Police Camp at Point Judith:

Rebuilding toilet rooms at the three barracks including all necessary plumbing, heating, carpentry and electrical work.

Other work done by this Department or under our supervision and inspection:

Old Hope High - Veterans Administration Building:

Installation of Snow Guards  
Resurfacing of Driveways  
Roof and gutter repairs

Demolition of Structures at

Candace Street  
Hunter Street  
Thurbers Avenue  
Wickenden Street (Fire Station)

Installation of concrete sidewalk at Old Road Cemetery

Classical Central Education Center:

Directed, in conjunction with Prof. Walter F. Bogner, F.A.I.A., of the Graduate School of Design of Harvard University who acted as Professional Adviser, the architectural competition which included handling of correspondence between the competitors and the professional adviser, obtaining of borings, conferences with Prof. Bogner, representatives of the School Department, the Redevelopment Agency and key personnel of the City.

This office also did preliminary work for the construction of the Lippitt Hill School and the Lippitt Hill Playground and has been in frequent consultation with representatives of the School Department, the Recreation Department and City officials

Work under construction and being done under the supervision of this Division during the fiscal year ending September 30, 1963 amounts to approximately two million six hundred thousand (\$2,600,000.00) dollars.

We have started planning for construction work to be done in the near future in the amount of ten million six hundred thousand (\$10,600,000.00) dollars.

DRAW BRIDGE OPERATION SECTION

This Section is responsible for the operation of the two draw bridges (Point Street Bridge and Red Bridge) owned and operated by the City of Providence. The men in this section also performed the housekeeping and preventative maintenance duties (greasing, oiling, shoveling snow, etc.) required to keep these bridges in operation. The repair and heavy maintenance work required on these bridges is performed by the Bridge Maintenance Section. This section also operated Point Street Bridge for the 2 openings which were made for the contractor of the Hurricane Barrier.

EXPENDITURES

Item 0	Personal Services	\$50,419.92
Item 1	Services other than Personal	918.98
Item 2	Materials and Supplies	<u>456.54</u>
	Total	\$51,795.44
	Revenue	32.87

Point Street Bridge was placed on a limited opening basis on May 10, 1958. The operating personnel and the electric power meter were removed at that time. Requests to have the bridge opening for water traffic must be made 24 hours in advance so that an operating crew can be obtained and a power meter installed. The Bridge has made 2 openings during this fiscal year. Both openings were made in the month of September 1963.

The following table shows the number and type of craft passing through Red Bridge by months for the fiscal year. It also shows the totals of vessels and openings and average time for openings for the fiscal year immediately preceding.

SUMMARY OF OPERATIONS FOR YEAR ENDING SEPTEMBER 30, 1963      SUMMARY OF OPERATIONS FOR YEAR ENDING SEPT. 30, 1962

RED BRIDGE

	Steamers	Tugs	Sail Boats	Barges	Miscellaneous	Total No. of Vessels year 1962-63	Total Openings 62-63	Average time opening to close of gates (Min.)	Total No. of Vessels year 1961-62	Total Openings 61-62	Average time of opening to close of gates (Min.) 61-62
October	24	10	4	2	1	41	35	5.45	59	43	4.65
November	22	18		10	1	51	39	5.40	33	23	5.09
December	22	17		9		48	27	5.29	54	37	5.05
January	28	14		12		54	43	5.37	67	51	4.31
February	18	19		11	2	50	38	5.45	40	30	4.67
March	20	14		9	1	44	35	4.88	46	31	4.58
April	16	18		13		47	34	5.02	33	27	4.74
May	29	17		9	9	64	50	5.07	64	45	4.56
June	14	18	4	11	17	64	51	5.54	56	35	5.05
July	23	4		3	21	51	46	5.01	40	33	4.42
August	11	12		12	16	51	41	5.06	51	34	5.47
September	18	59		38	9	124	75	5.01	43	30	6.00
	245	220	8	139	77	689	514		586	419	

The following table shows the total number of craft passing through the Drawbridges beginning the year 1907:

From 1907 to 1928, inclusive, years ending December 31.

Year 1929 includes 9 months only, and ends September 30.

From 1930 to date, years end September 30.

YEAR	POINT		YEAR	POINT	
	STREET BRIDGE	RED BRIDGE		STREET BRIDGE	RED BRIDGE
1907	25,949	2,632	1934-35	1,307	2,454
1908	21,767	4,852	1935-36	1,468	2,150
1909	17,218	6,914	1936-37	1,368	2,130
1910	17,125	2,927	1937-38	1,136	1,913
1911	20,078	3,293	1938-39	1,676	2,187
1912	21,519	3,021	1939-40	1,299	3,431
1913	15,311	3,734	1940-41	1,066	2,420
1914	13,364	2,491	1941-42	1,205	1,722
1915	14,409	2,755	1942-43	1,263	1,087
1916	11,638	3,368	1943-44	1,487	2,262
1917	9,704	3,273	1944-45	1,233	1,319
1918	6,894	2,680	1945-46	1,078	1,828
1919	7,123	3,467	1946-47	936	1,640
1920	6,950	4,451	1947-48	1,010	1,541
1921	6,067	2,001	1948-49	666	2,130
1922	5,307	2,958	1949-50	638	1,609
1923	5,476	5,134	1950-51	371	1,973
1924	4,858	2,035	1951-52	125	1,628
1925	4,939	1,942	1952-53	202	1,752
1926	5,198	2,415	1953-54	51	2,787
1927	4,700	2,934	1954-55	883	1,313
1928	4,679	3,912	1955-56	141	1,536
1929	4,068	3,623	1956-57	16	1,189
1929-30	3,210	2,738	1957-58	9	1,076
1930-31	3,243	2,742	1958-59	6	1,021
1931-32	1,197	1,900	1959-60	0	758
1932-33	1,327	2,787	1960-61	212	586
1933-34	1,990	3,750	1961-62	104	614
			1962-63	2	689

BRIDGE	GREATEST NUMBER OF OPENINGS IN ANY ONE DAY		DAILY AVERAGE NUMBER OF OPENINGS FOR THE YEAR	
	1961-1962	1962-1963	1961-1962	1962-1963
Red	10	6	1.57	1.17
Point	4	1	-----	-----

STREET LIGHTING SECTION

Street Lighting Costs

The total expenditures for the fiscal year ending September 30, 1963, for street, bridge, subway, and park lighting bills, contracted in the months stated, less all credits for outage, have been as follows:

1962-1963 Appropriation --- \$509,128.00

INCANDESCENTS AND MERCURY

1962	<u>Total Bill</u>	<u>Less Outage</u>	<u>Net Cost</u>
October	40,155.38	149.54	40,005.84
November	40,234.26	205.62	40,028.64
December	40,789.64	246.98	40,542.66
1963			
January	40,855.33	223.93	40,631.40
February	40,952.11	173.83	40,778.28
March	41,044.30	188.70	40,855.60
April	41,128.86	139.54	40,989.32
May	41,209.11	73.60	41,135.51
June	41,343.24	70.76	41,272.48
July	41,771.37	79.34	41,692.03
August	41,678.38	78.83	41,599.55
September	41,773.81	133.07	41,640.74
	<u>\$492,935.79</u>	<u>\$1,763.74</u>	<u>491,172.05</u>

SCHEDULES OF STREET LIGHTING DATA

	<u>O.H.</u>	<u>A.N.</u>	<u>1000 cp.</u>	<u>U.G.</u>	<u>A.N.</u>	<u>O.H.</u>	<u>A.N.</u>
	<u>600 cp.</u>		<u>U.G.</u>	<u>H.N.</u>		<u>U.G.</u>	<u>A.N.</u>
Oct. 1, 1962	29		280	3		26	
Sept. 30, 1963	29		158	3		26	
Changes	0		122	0		0	
	<u>Mer. 7000 Lu.</u>	<u>Merc. 2 Lt.</u>	<u>Merc. Vap. O.H.</u>	<u>Merc. A.N.</u>	<u>Merc. A.N.</u>	<u>U.G.</u>	<u>A.N.</u>
Oct. 1, 1962	118	8	2093	1474	21		Sodium Light
Sept, 30, 1963	173	12	2091	1687	21		U.G. U.G. A.N.
Changes	55	4	2	213	0		

	<u>100 cp.</u>	<u>O.H.</u>	<u>Merc. Vap.</u>	<u>A.N.</u>	<u>O.H.</u>	<u>H.N.</u>
	<u>A.N.</u>	<u>U.G.</u>	<u>24 Hr. U.G.</u>	<u>250 cp.</u>		
Oct. 1, 1962	138	227	44	507	17	12
Sept. 30, 1963	158	227	44	512	17	
Changes	20	0	0	5	0	

	<u>Sept. 30, 1962</u>	<u>Sept. 30, 1963</u>	<u>Changes</u>
Total number equivalent single incandescent lights	8996	8896	100
Total number mercury lights 21,000, 15,000 15000c & 7,000 Lu.	3697	3963	266
Total number equivalent single sodium lights	21	21	0

From May 1 to October 14, inclusive, the H.N. lights burn one extra hour until 1 A.M.

The United Transit Company is charged for ½ the cost of the 15,000c lumen U.G. mercury which is located at the Thayer Street entrance to the tunnel.

B-includes 8 lights on Montgomery Avenue for which Cranston pays \$7.00 per light per annum

These Charges shown for the United Transit Company and the City of Cranston are billed by the City Controllers Office.

STREET LIGHTING UNIT COSTS

Under the provisions of terms and conditions for street lights this being the so called "Fuel Clause", the cost of the street lights for the year beginning October 1, 1962, depended upon the cost of fuel for the year ending July 31, 1963. This cost averaged \$9.79 per standard net ton. This is \$0.96 below the base price of \$10.75. All base prices shown in the rate schedule will therefore be decreased by an amount obtained by multiplying the decrease per ten cent variation by 9. A tabulation showing the unit prices for the year beginning October 1, 1963, is as follows:

	Annual Decrease per 10¢ Decrease in cost of fuel below \$10.75 base	No. of 10¢ below \$10.75 base Fuel Price	Decrease to Base Price	Annual Base Price	Net Price
<b>Incandescent 100 cp.</b>					
U. G. All night	.021	9	.19	29.12	28.93
U. G. Single, ½ Night	.009	"	.08	25.11	25.03
Aerial Single, A.N.	.021	"	.19	16.09	15.90
Aerial Single, ½ Night	.009	"	.08	10.40	10.32
<b>Miscellaneous</b>					
250 C.P. U.G. A.N.	.043	"	.39	52.19	51.80
250 C.P. Aerial, A.N.	.043	"	.39	32.19	31.80
1000 C. P. Aerial, A.N.	.132	"	1.19	72.51	71.32
1000 C.P. U.G. A.N.	.132	"	1.19	92.51	91.32
1000 C.P. U.G. ½ Night	.072	"	.65	72.39	71.74
250 C.P. U.G. ½ Night	.024	"	.22	43.74	43.52
10,000 Lu. Sodium, U.G.	.049	"	.44	87.22	86.78
10,000 Lu. Sodium, O.H.	.049	"	.44	67.22	66.78
600 C.P. Incandescent. O.H.	.088	"	.79	53.57	52.78
600 C.P. Incandescent, U.G.	.088	"	.79	73.57	72.78
15,000 Lu. Mercury, O.H.	.097	"	.87	71.95	71.08
15,000 Lu. Mercury, U.G.	.097	"	.87	91.95	91.08
15,000 Lu. Mercury, U.G. 2 Lt.	.194	"	1.75	165.90	164.15
15,000 Lu. Merc. Underpasses 24Hr.	.282	"	2.54	123.16	120.62
21,000 Lu. O.H.	----	-	----	94.00	94.00
21,000 Lu. U.G.	----	-	----	114.00	114.00
6,800 Lu. O.H. Mercury	----	-	----	55.00	55.00
6,800 Lu. U.G. Mercury	----	-	----	75.00	75.00
21,000 Lu. U.G. 2 Lt.	----	-	----	208.00	208.00
15,000 C. Lu. O.H.				77.00	77.00
15,000 C. Lu. U.G.				97.00	97.00
15,000 C. Lu. U.G. 2 Lt.				174.00	174.00
15,000 C. Lu. Underpasses 24 hr.				123.00	123.00

Notes:

15,000c Mercury Vapor means a 21,000 Lumen Mercury Vapor Lamp installed in an existing 15,000 Lumen Mercury Vapor Luminaire. No new installations.

The rates which are affected by fuel costs are:  
 General Service Rate D, Power Rate F., Power Rate G.

NARRAGANSETT ELECTRIC COMPANY FUEL COSTS

The amount determined under the proceeding provisions shall be increased or decreased by .000005 per kilowatt hour for each \$.01 increase or decrease in cost of fuel, as defined in the Company's terms and conditions, above or below \$10.75 per net ton. The cost of fuel for any month shall affect the price of electricity billed in the second month following such month.

The cost of fuel by month was as follows:

1962	September .....	9.759*
	October.....	9.775
	November.....	9.727
	December.....	9.73
1963	January.....	9.806
	February.....	9.909
	March.....	10.054
	April.....	9.682
	May.....	9.645
	June.....	9.612
	July.....	9.738
	August.....	9.719

The above figures show that the average price per ton for the year was 9.79 per ton

\* Standard net ton

The number of lamps and globes reported as broken on street lights during the years 1961-1962-1963, is as follows:

<u>INCANDESCENT</u>	<u>LIGHTS BROKEN</u>	<u>MERC. GLOBES</u>
1961-1962	6083	114
1962-1963	5458	95

MAIL PARKING DECK LIGHTS  
1 Francis Street

The Mall Parking Deck Lights are charged to the general Street Lighting account. However, they will not show on the schedule because they are on a separately metered circuit and do not come under the contract price per light unit. They are metered on a "G" Rate, and so much per K.W.

<u>No. of Lights</u>	<u>Type of Light</u>	<u>Hours of Burning</u>
12 U.G.	20,000 Lumen M.V.	24 Hours
14 U.G. A.N.	20,000 Lumen M.V.	Predetermined Ft. Candle Level.
18 U.G. A.N.	2,500 Lumen Inc.	Predetermined Ft. Candle Level

The 10 U.G. A.N. 20,000 Lumen M.V. lights on the top deck are separately metered and charged to the Meyers Brothers Parking System.

MONTHLY CHARGES

<u>MONTH</u>	<u>K.W. USED</u>	<u>BILL</u>
October, 1962	4900 K.W.	94.23
November, 1962	5180 K.W.	97.17
December, 1962	5440 K.W.	97.16
January, 1963	6200 K.W.	113.89
February, 1963	6080 K.W.	112.51
March, 1963	4980 K.W.	115.07
April, 1963	4280 K.W.	94.85
May, 1963	2600 K.W.	77.58
June, 1963	4800 K.W.	100.76
July, 1963	4720 K.W.	99.06
August, 1963	3940 K.W.	91.06
September, 1963	3520 K.W.	86.75
		<u>1180.09</u>

SIGN INSPECTION

Signs inspected for overhead wire clearance 339

These signs are inspected for wire clearance as noted in The National Safety Code Standard.



NUMBER AND KIND OF STREET LIGHTING UNITS IN SERVICE IN PROVIDENCE (Continued)

Year	Bridge Structure	24 Hr. Burning	1520	100 cp.	250 cp.	3000 cp.	600 cp.	1000 cp.	15000 Lu.	15000 Lu.	7000 Lu.	21000
1958			0	8192	484	349	29	25	3570			
1959			0	8236	512	348	29	22	3593		7	
1960			0	8244	519	345	29	22	3623		42	
1961			0	8212	547	331	29	21	3607		88	
1962			0	8122	526	309	29	21	3567		118	12
1963			0	8139	541	187	29	21	2754	825	173	231

\* 15000 Lu. C Means A 21000 Lu. Mercury Vapor Lamp Installed - In An Existing 15000 Lu. Mercury Designed Luminaire

RECAPITULATION

Grand Total	491,172.05
Total monthly average cost 1961-1962	40,083.85
Total monthly average cost 1962-1963	40,931.00
Increase from previous year of the Monthly Average	847.15
Total savings in outages	1,763.74

<u>New Street Light Petitions Received</u>	<u>Granted</u>	<u>Rejected</u>	<u>Hold</u>
64	56	3	5
<u>Utility Pole Petitions Received and Field Checked</u>			167

SUMMARY

There are now 2754, 15,000 lumen mercury vapor lights in service.

There are now 825 15,000 lumen mercury vapor lights in service.

There are now one hundred and seventy three (173) 7000 lumen mercury

There are now (231) 21,000 lumen mercury vapor lights in service.

The number of 2,500 lumen incandescent lights have been increased by five (5), bringing the total number of this type of light now in use to 541.

There are one hundred and eighty seven (187) 10,000 lumen lights in service in the City that will be replaced with 21,000 lumen mercury vapor lights in the near future.

There are eight thousand one hundred and thirty nine (8139) 1000 lumen lights in service (familiar neighborhood type). There have been 80 lights of this type installed during the past fiscal year, on street light petitions.

EXPENDITURES

Item 0.	Personal Services	\$5,408.00
Item 1.	Services other than personal	\$491,900.05

## SHOPS & STORES

The Construction and Maintenance Shops and Stores services completely all sections of the Public Works Department, except the Sanitation Division and the Sewer Construction and Maintenance Sections.

The Sewer Construction and Maintenance Shops and Stores services only the Sewer Construction and Maintenance Section, and the passenger cars rented to the Construction and Maintenance Administration.

All automotive construction and maintenance equipment is furnished to the section requiring its use on a rental basis. These rental payments are shown as receipts in the Revolving Fund which, together with the money received for stock orders and job orders, comprise the money used for defraying the operating costs and the purchase costs for the rental equipment of these sections.

A detailed resume of the activities of each section is as follows:

### CONSTRUCTION AND MAINTENANCE SHOPS AND STORES

This section has no budget allowance. All expenses for labor and materials are paid for with the money received from the equipment rentals, and from stock and job orders, together with the initial capital appropriated.

This section is responsible for procuring, servicing, maintaining and repairing all equipment, materials and supplies required by the following sections and divisions:

Public Works Administration	Bridge Maintenance Section
Public Service Engineer	Snow Removal Section
Engineering Office	Forestry Section
Business Management Office	Sidewalks and Curbing Section
Highway Section	Public Building Section
Drawbridge Operation Section	Street Cleaning Section
Street Lighting Section	Family Relocation Service

All automotive and mobile or portable construction and maintenance equipment used by the above agencies is obtained from this section and paid for on a rental basis.

A list of the available rental equipment is as follows:

2 Compressors, Truck Mounted	1 Hoist Truck 5000#
33 Dump Trucks, 4 cu. yds.	2 Bulldozers TD 18
6 Dump Trucks, 3 cu. yds.	1 Sky Worker
5 Dump Trucks, 3 cu. yds.	1 Welder, Electric Portable
3 Pickup Trucks, 3/4 Ton	2 Shovels, 3/4 cu. yds.
1 Stake Body Truck, 1 Ton	6 Road Graders
1 Panel Truck, 1/2 Ton	2 Mist Sprayers
1 Express Body Truck 2 1/2 Ton	2 Concrete Mixers 3 S
1 Express Body Truck 1/2 Ton	9 Street Sweepers
3 Cargo Trucks, 6 Ton	9 Snow Loaders
10 Passenger Cars	5 Lawn Mowers, Power
7 Air Compressors, Portable	19 Tail Gate Spreaders
1 Trailer 25 Ton Flatbed with Tractor	80 Snow Plows
1 Gradall	3 Front End Loaders
1 Station Wagon	2 Rollers 10-14 Ton Tandem

2 Hoist Trucks 2500#	1 Fork Lift
1 Roller 8-12 Ton Tandem	1 Roller 10-12 Tandem
1 Roller 10-12 Ton 3 Wheel	1 Paver, Asphalt
1 Roller 305 Ton Portable	3 Tool Heaters
3 Walters Snow Fighters	5 Generators, Portable
2 Rollers 305 Ton Tandem	6 Tool Wagons
3 Leaf Collectors	

This equipment is serviced and repaired in the repair shop by personnel of this section.

During the year the following new equipment was purchased by the section and incorporated in the rental pool.

2 Dump Trucks 6 Cu.Yds.	1 Asphalt Paver
7 Dump Trucks 4 Cu. Yds.	1 Wrecker Truck
1 Front End Loader	2 Snow Throwers
26 New Plows	2 Jeeps
1 Tree Sprayer	1 Tool Wagon

In addition to the rental equipment in the pool, this section also services, repairs and maintains the following equipment for the sections shown:

1 Fork Lift	Automotive Repair Shop
1 Air Compressor	Paint Shop
1 Emergency Motor & Generator	Point Street Bridge
1 Bulldozer TD 9	City Dump
2 Buckets, Clamshell	Incinerator
4 Buckets, Orange Peel	Sewer Maint. Section
1 Roller, 5 Ton Tandem	Recreation Department.

The Carpenter Shop, Blacksmith Shop, Paint Shop and Machine Shop facilities were used to perform tasks required by all the sections listed above, as well as other city agencies. The Carpenter Shop, Blacksmith and Machine Shops will be discontinued during the next year.

The Agency pays for the actual cost of the labor and materials used plus a 10% mark-up to take care of the handling charges.

The stock room carries much of the materials, parts and supplies required by the sections of the division. An inventory of \$56,056.00 in materials and supplies and parts was on hand in the stock room on September 30, 1963.

#### SEWER CONSTRUCTION AND MAINTENANCE SHOPS AND STORES

This section has no budget allowance. All operating expenses for labor and materials are paid for with the money received from the equipment rentals and for the stock and job orders together with the initial capital appropriated.

This section is responsible for procuring, servicing, maintaining and repairing all equipment, materials and supplies required by the Construction and Maintenance Administration and the Sewer Construction and Maintenance Section. All automotive and construction equipment used by these sections is obtained from this section on a rental basis.

A list of available rental equipment is as follows:

4 Eductors	4 Air Compressors - Portable
3 Derrick Trucks	3 Centrifugal Pumps (6 in.)
4 Passenger Cars	1 Centrifugal Pump (4 in.)
4 Dump Trucks	2 Centrifugal Pumps (3 in.)
2 Cargo Trucks (2 Ton)	1 Diaphragm Pump (4 in.)
1 Pickup Truck	1 Centrifugal Pump (1½ in.)
1 Set of Sewer Wrenches	1 Sewer Rod Power Driver
1 Electric Generator	1 Diaphragm Pump (3 in.)
	1 Diaphragm Pump (2 in.)

This equipment is serviced and repaired in the shops by personnel of this section.

In addition to rental equipment in the pool this section, through its carpenter and blacksmith shops repairs and maintains all tools, sewer gates, etc., for which the Sewer Maintenance Section is responsible. Some work for agencies outside the Sewer Maintenance Section is performed primarily by the carpenter shop.

The work, in either case is paid for by the agency concerned, by paying for the total cost of both labor and materials plus 10% of the total cost. The revenue thus earned is used to defray the cost of operation plus the cost of equipment replacement.

The stock room carries much of the materials, parts and supplies required by the Sewer Maintenance Section.

An inventory of \$19,883.57 in materials and supplies and parts was on hand in the stock room on September 30, 1963.

#### RECOMMENDATIONS

1. Purchase 2-4 Cu. Yd. and 1-10 Cu. Yd. Heavy Duty Dump Trucks for Highway to replace 3 trucks requiring constant repair.
2. Replace roadway on Charles Street Bridge and paint.
3. Replace north section of roadway, caplogs and drive new piles of Smith Street Bridge.
4. Paint all Bridges.
5. Inspect and perform necessary work on bumpers at Crawford Street Bridge.
6. Crib walk at Point Street and Red Bridges need extensive repairs.
7. Relocate Bridge Maintenance Section from Harbor Masters Building at Point Street to Highway Building.
8. Iron fencing and grating needs repairing and painting at Point Street Bridge.
9. Concrete sections of Gen. Edwards Memorial Viaduct require repairing and under-section of steel work should be painted. Expansion joints need repairing.
10. Purchase 1 new Derricle Type Digger for Sewer Department.

11. New fences should be built on the bridge at Market Square between Westminster Street and Exchange Place.

12. Sidewalks on the following bridges should be completely rebuilt -- Glenbridge Avenue, West River Street and Red Bridge.

13. Leland Street Footbridge should be rebuilt. The floating dock at the Harbor Master's Wharf at Point and South Water Streets is completely gone and a new one should be built.

14. The under side of the bridge in Post Office Square, Market Square and Crawford Street areas should be thoroughly scraped and painted. Some of the steel is in deplorable condition. This is a major job.

15. The steel work on the shore spans of Red Bridge is in very poor condition and the whole bridge should be scraped and painted. At present there are 56 wood beams beside each of the rusted beams to assure adequate support. Thirty-two (32) new steel cross braces have been erected in place of the rusted out braces. Many of the horizontal members have been patched by welding pieces of steel to deteriorated steel work. A start has also been made on painting the under structure of the bridge. However, much more repair work is required to assure continuous usage.

16. Recommend that one of the six road graders be replaced. Two of these require extensive repairs and the stepped-up replacement plan should continue so as to cut down the cost of operation. One grader was replaced during the past year.

17. Merino Park Footbridge should be completely rebuilt. The piles are in very bad condition.

18. A maintenance gang of one foreman and six men should be set up for the construction and maintenance division to maintain the buildings of the Public Works Department; such as, The Storage and Transit Sheds at Fields Point, Fields Point Dock Office, Harbor Master's Building, House and Building at the Red Bridge, Brick Buildings at Sewer Syphon on India Street and Globe Street, Incinerator Buildings, Incinerator Garage, Sewer Maintenance Building, Highway Buildings, Forestry Buildings, and Railroad tracks at Fields Point, the Washington Park Pumping Station, the Reservoir Avenue Pumping Station and the Ernest Street Pumping Station.

There are many items that should be maintained or repaired at the present time. Some of this work has or is presently being accomplished by the Bridge Maintenance Gang and the Carpenters and Masons for the Sewer Shops and Stores and the Construction and Maintenance Shops and Stores; but it could be better accomplished by assigning a definite responsibility for this work.

19. Television Pictures should be taken of the following sewers to definitely determine whether or not the constant sinking of the roads on these streets are caused by fractures in the Sewers.

(1) Elmwood Sanitary Sewer across Allens Avenue. This can only be done by closing down the pumping station and drawing the liquid from the detritors at the treatment plant.

(2) Storm sewer across Smith Street at Richter Street.

(3) Sanitary Sewer across Smith Street at Richter Street.

Respectfully submitted,

Peter P. Granieri, Jr.  
Chief, Const. & Maint. Division

SANITATION DIVISION

Mr. Robert B. Strong  
Director of Public Works  
City Hall, Providence, R. I.

Dear Mr. Strong:

Attached hereto is the Annual Report of the Sanitation Division of the Public Works Department for the Fiscal Year 1962 - 1963.

This Division is divided into the following Sections:

Sanitation Administration	Sewage Disposal Works
Street Cleaning	Refuse Collection & Disposal
Sewage Pumping Station	Garbage Collection & Disposal
Sanitation Shop and Stores.	

The office personnel handles all the necessary clerical work pertaining to the Refuse Collection and Disposal Section, the Sewage Pumping Station Section, the Sanitation Shop and Stores and a portion of the work associated with the Sewage Disposal Works Section and Garbage Collection and Disposal Section.

Condensed records from all Sections are maintained and filed in this office for reference.

The expenditures for this Section for the fiscal year were as follows:

ITEM 0 Personal Services	\$ 13374.16
ITEM 1 Services Other Than Personal	682.45
ITEM 2 Materials and Supplies	<u>21.03</u>
TOTAL	\$ 14077.64

STREET CLEANING SECTION

This Section is responsible for the cleaning of all streets and highways within the City and the maintenance and care of all the trash cans situated both downtown and in the outlying sections of the City.

The streets in the downtown section of the City, bounded by Dyer Street, South Main Street, Washington Row, Union Station, West Exchange Street, Aborn Street, Empire Street, Chestnut Street and Clifford Street are cleaned daily.

The following streets and squares are also cleaned daily:

Broadway from LaSalle Square to Olneyville Square  
Westminster Street from Empire Street to Hoyle Square  
Weybosset Street from Empire Street to Cathedral Square  
Broad Street from Empire Street to Trinity Square  
Atwells Avenue from Aborn Street to Ridge Street  
Pocasset Avenue from Olneyville Square to City Line  
Willard Avenue from Gay Street to Prairie Avenue  
Randall Street from Charles Street to North Main Street

Smith Street from State House to Oakland Avenue  
Douglas Avenue from Admiral Street to Mowry Street  
Plainfield Street from Hartford Avenue to Webster Avenue  
Gay Street from Willard Avenue to Blackstone Street  
North Main Street from College Hill to Mill Street  
Charles Street from Railroad Bridge to City Line  
South Main Street from College Hill to Point Street  
Wickenden Street from East Street to Ives Street  
Ives Street from Wickenden Street to Power Street  
Governor Street from Wickenden Street to Power Street  
Wayland Avenue from Waterman Street to Angell Street  
South Angell Street from Wayland Avenue to Butler Avenue  
Butler Avenue from South Angell Street to Waterman Street  
Angell Street from Butler Avenue to Wayland Avenue  
Hope Street from Langham Road to Sixth Street  
Hartford Avenue from Laurel Hill Avenue to Olneyville Square  
Thayer Street from Brook Street to Waterman Street  
Waterman Street from Thayer Street to Brook Street  
Cranston Street from Dexter Street to City Line  
Potters Avenue from Cranston Street to Dexter Street  
Eagle Park Square                      Olneyville Square

The following streets and squares are also cleaned daily:

Randall Square	Trinity Square
Wayland Square	Washington Square

A crew of men with hand brooms and hand push barrels are assigned to the downtown area and the outlying sections of the City to keep these sections free from debris.

All the main arteries in the City were cleaned twice a week. All the streets in the outlying sections were inspected and cleaned by the day and night cleaning crews supplemented by the mechanical sweepers. Additional highway cleaning crews were assigned in cleaning the outlying sections during the spring and fall months.

172 trash cans were emptied four times daily. 40 new cans were purchased to replace broken cans.

Eight mechanical sweepers were in operation, both day and night. Two new mechanical sweepers were purchased to replace two obsolete ones.

Five dual gutter broom sweepers are in service and are capable of cleaning gutters from either side of the sweeper, and are advantageous on one way streets.

Three front end loaders were used to pick up the sweeper dumps and load them in trucks for disposal.

Three large trucks were used in the fall to pick up leaves. These trucks are equipped with Eagan Leaf Collectors and have a capacity of 10 tons. An operator and two laborers are needed for this operation.

An emergency crew was on duty twenty-four hours a day to handle complaints from the general public and to correct conditions outlined in police reports.

A summary of operations for this Section follows:

Hand Broom Sweeping	246	Miles
Machine Broom Sweeping	15,251	Miles
Beat Patrol	10,420	Miles
Hand Broom Disposal	2,928	Tons
Street Container Disposal	6,714	Tons
Storm Debris	494	Tons
Miscellaneous Debris	311	Tons
Machine Broom Disposal	9,699	Tons

The expenditures for this Section were as follows:

Item 0 Personal Services	\$357,685.43
Item 1 Services other than Personal	79,650.78
Item 2 Materials and Supplies	2,464.48
Item 5 Capital Outlay	1,690.00
Total	<u>\$441,490.69</u>

#### SEWAGE PUMPING STATION

This Section is charged with the operation and maintenance of three Sewage Pumping Stations in the City. The Main Station is located on Ernest Street and handles approximately all of the Sewage flow. One of the smaller stations is situated on Reservoir Avenue near the City line, and the other in Harborside Park, Fields Point.

The main pumping station on Ernest Street has a capacity of two hundred millions of gallons a day. Electric power to operate this station is supplied from the Garbage Incinerator Plant. Provision has been made for stand-by power from the local power company. The two smaller stations operate automatically and the power to operate them is supplied by the local power company. All stations are in operation twenty-four hours per day.

Expenditures for this Section for the fiscal year were as follows:

ITEM 0 Personal Services	\$71,217.60
ITEM 1 Services Other Than Personal	1,784.57
ITEM 2 Materials and Supplies	<u>3,772.80</u>
Total	\$76,774.97

#### SEWAGE PUMPING STATION

Total monthly flow, in million gallons, for each station, is as follows:

	<u>ERNEST STREET</u> STATION No. 1	<u>WASHINGTON PARK*</u> STATION No. 2	<u>RESERVOIR AVENUE*</u> STATION No. 3	<u>TOTAL</u>
1962				
October	1,821.0	16.0	3.0	1,840.0
November	1,635.0	16.0	3.0	1,654.0
December	1,488.0	16.0	3.0	1,507.0
1963				
January	1,597.0	16.0	3.0	1,616.0
February	1,383.0	16.0	2.0	1,401.0
March	1,619.0	16.0	2.0	1,637.0
April	1,336.0	13.0	2.0	1,351.0
May	1,461.0	14.0	2.0	1,477.0
June	1,644.0	16.0	2.0	1,662.0

July	1,394.0	13.0	2.0	1,409.0
August	1,338.0	13.0	2.0	1,353.0
September	1,429.0	13.0	2.0	1,444.0
TOTALS	18,145.0	178.0	28.0	18,351.0

\*Estimated Flow

SEWAGE PUMPING STATION

Following is a monthly tabulation of the electrical power from the Garbage Incinerator used at the Ernest Street Station:

1962	K.W.H.
October	5,340.0
November	17,700.0
December	35,000.0
1963	
January	37,000.0
February	31,400.0
March	30,700.0
April	24,600.0
May	24,400.0
June	19,500.0
July	20,100.0
August	19,500.0
September	25,300.0
TOTAL	290,540.0

SEWAGE DISPOSAL WORKS

This Section is responsible for the treatment and disposal of all sewage from the City of Providence, Town of North Providence, Town of Johnston, and wastes from the Narragansett Brewing Company, Cranston, R. I. The disposal plant is located in the southeasterly section of the City near the Municipal Dock at Fields Point.

The following tables show the statistics for the Disposal Plant for the Fiscal Year.

Estimated Population Served by the Plant:

Providence	248,000
Johnston	2,200
North Providence	12,000
Total Connected Population	262,200

Sewage Flow	Million Gallons
Providence	14,879.29
Johnston	512.96
North Providence	2,850.89
Cranston (Narragansett Brewing Co)	108.80
Total Sewage Flow	18,351.94

SUMMARY OF OPERATIONS

Total Flow of Sewage	18,351.94	M.G.
Average Daily Flow	44.86	M.G.
Max. Daily Flow (October 7, 1962)	124.42	M.G.
Min. Daily Flow (January 1, 1963)	20.00	M.G.
Total Air Used for Aeration	20,060.71	Mil. Cu. Ft.
Liquid Chlorine	787.50	Tons
Ferric Chloride Used	99.37	Tons
*Lime (As Kemikal Hydrate)	1,25	Tons
Lime as Chemlime Slurry	810.75	Tons
Total Lime Used	812.00	Tons
Grit Removals	240.5	Tons
Sludge Incinerated	29,107.17	Tons
Ash Removed from Incinerator	470.29	Tons
+Fuel Oil Used for Operating Sludge Incinerator (#5 Oil)	0.00	Gals.
Fuel Oil Used for Operating Sludge Incinerator (#2 Oil)	261,879	Gals.
Fuel Used for Heating Administration Building (#2 Oil)	4,239	Gals.
Fuel Used for Heating Grit Building (#2 Oil)	3,821	Gals.
Fuel Used for Heating P.S.P.S. (#2 Oil)	4,021	Gals.
Fuel Used for Heating S.S.P.S. * Chloride Bldg.	1,205	Gals.
Total Gallons #2 Fuel Oil used for heating Purposes	13,286	Gals.

Gas used for heating Field Laboratory 127.5 hundred cubic feet.  
 \* used only in cases to substitute chemlime slurry.  
 + #5 oil no longer used in Sludge Incinerator.

Electric power used from the Garbage Incinerator.

	K.W.H.
1962	
October	159400
November	152200
December	163700
1963	
January	12800
February	126900
March	190700
April	320700
May	338000
June	389500
July	257000
August	300000
September	331600
TOTAL	2742500

Expenditures for the year were as follows:

Item 0 Personal Services	\$272,718.76
Item 1 Services Other Than Personal	201,663.24
Item 2 Materials and Supplies	155,972.57
Item 5 Capital Outlay Equipment	994.00
Item 7 Other Structures & Improvements	260,000.00
Total	\$891,348.57

Supervision by the Engineering Firm of Metcalf & Eddy, through their assigned representative, Mr. Ariel A. Thomas, still continued throughout the Fiscal Year 1962 - 1963.

Recommended improvements to the Sewage Disposal works as made by the Engineers, were approved and construction started on May 23, 1963.

Major improvements and/or additions to be made to the facilities, consist of a new 10-ton Nichols Herroshoff Sludge Incinerator, and standby vacuum filtration equipment capable of replacing the single Komline-Sanderson Filter during maintenance and breakdowns. Other necessary improvements being provided at this time consist of influent gates to the fourth pass of aeration tanks 2-9 inclusive. Spray water lines to cope with foaming in the first pass of aeration tanks, and in the final effluent channels from the aeration tanks to the final clarifiers; a control valve in the return sludge system so that the north and south sections of the secondary treatment facilities can be used independently of each other; a chlorine solution line for chlorinating the raw sewage and the return sludge wet wells when necessary for control of micro organism growth; a new ejector station with more efficient pumps; relocation of existing sewage pumps for improved operation; replacement of the Komline-Sanderson Sludge Pump in the primary pumping station with wemco pumps; waterproofing of the north and south dewatering stations which has been subject to flooding under certain tide conditions; also replacing of the main electrical control panel and equipment in the Filter Building.

The overall general efficiency of treatment showed some improvement during the fiscal year 1962-1963. Satisfactory chlorine control of bacteria was maintained throughout the year. Seasonal removals of B.O.D. and suspended solids were showing improvement over previous years. Overall gains were being achieved until such time as it became necessary to cut down on the available facilities so that they could be turned over to the contractor for construction of new work.

Appreciable savings were made as a result of closer (Laboratory) control of chemicals for sludge conditioning.

During the year, mechanical breakdowns resulting from normal operational wear and tear, were repaired by plant personnel, and several electrical failures of equipment were corrected.

Due credit should be given to Unit 52 of the Forestry Department for their assistance on August 23, 1963 in moving the cutter assembly of No. 1 Barminutor into place. Credit should also be given to Units 49 and 61 of the Sewage Maintenance Division for assistance rendered in cleaning the grit out of the north and south influent channels to the aeration tanks, and the by-pass channels of raw sewage influent to the detriters.

#### GARBAGE COLLECTION AND DISPOSAL

The Garbage Collection and Disposal Section is charged with the collection and disposal of Domestic refuse and the disposal of Commercial refuse. The Domestic refuse is collected by City Trucks and transported to the Incinerator for disposal. All Commercial refuse is transported to the Incinerator in private vehicles. Electric power is generated at the Garbage Incinerator by means of waste heat boilers and Turbo Generators. The power generated is used at the Sewage Disposal Works, Sewage Pumping Station, Highway Department Building, Municipal Garage and the Garbage Incinerator.

A fleet of twenty trucks, with special load packing bodies, is used in making the collection of domestic garbage and combustible household rubbish. Two collections per week are made from all residences in the City. All Automotive Equipment used, is rented from Sanitation Shops and Stores Revolving Fund.

Two Garbage Incinerators, each with a capacity of 160 Tons per day, are situated in the Southeastern Section of the City in the Municipal Dock Area. Only one unit is used at a time, the other is a standby. Each unit has two steamboilers and the steam produced is used to drive auxiliary machinery at the plant, to heat the Incinerating Plant, Sanitation Garage, and some buildings at the Sewage Disposal Works. There are two Turbo-Generators, each with a rating of 1250 K.W. Both the Incinerator and Power Plant are in operation twenty-four hours per day.

The expenditures for this section for the fiscal year were as follows:

Item 0	Personal Services	\$632,594.62
Item 1	Services other than Personal	117,098.54
Item 2	Materials and Supplies	18,763.23
Item 3	Special Items	5,087.98
Total		\$773,544.37

#### GARBAGE COLLECTION AND DISPOSAL

During the fiscal year 85,000 gallons of No. 6 fuel oil were used to maintain the steam pressure in times of emergency or mechanical break down. 20,000 gallons of the above amount was purchased because of lack of garbage and refuse due to snow storms.

The following is the K.W.H. furnished the Sewage Disposal Works, the Municipal Garage, the Sewage Pumping Station, the Highway Garage, and Station Power.

	Sewage Disposal	Sewage Pumping	Municipal Garage	Highway Garage	Station Power	Total
1962						
Oct.	159,400	5,340	11,400	11,760	101,100	289,000
Nov.	152,200	17,700	11,600	13,270	87,230	282,000
Dec.	163,700	35,000	11,800	16,830	80,670	308,000
1963						
Jan.	12,800	37,000	12,200	18,310	82,690	163,000
Feb.	126,900	31,400	11,200	14,730	69,770	254,000
Mar.	190,700	30,700	12,200	14,350	75,050	323,000
Apr.	320,700	24,600	9,600	9,660	73,440	438,000
May	338,000	24,400	10,400	9,540	72,660	455,000
June	389,500	19,500	9,200	6,910	68,890	494,000
July	257,000	20,100	9,600	4,540	77,760	369,000
Aug.	300,000	19,500	8,800	6,920	68,780	404,000
Sept.	331,600	25,300	10,000	9,740	66,360	443,000
Total	2,742,500	290,540	128,000	136,560	924,400	4,222,000

GARBAGE COLLECTION AND DISPOSAL

The following is the total amount of Garbage and Refuse disposed of by this Department from October-1962 to September-1963

<u>1962</u>	<u>GARBAGE (Tons)</u>	<u>RUBBISH (Tons)</u>
October	2,879.15	2,630.00
November	2,596.55	2,352.00
December	2,588.85	2,377.00
<u>1963</u>		
January	2,664.58	2,309.00
February	2,012.90	2,024.50
March	2,289.63	2,135.00
April	2,643.09	2,437.50
May	2,732.80	2,497.00
June	2,601.87	2,329.50
July	2,748.09	2,582.50
August	2,735.93	2,438.50
September	2,713.06	2,412.00
Total	<u>31,206.50</u>	<u>28,524.50</u>

Daily average for collection based on 313 working days	99.7 Tons
Daily average for disposal based on 365 working days	163.6 Tons

TOTAL POWER GENERATED

	<u>K.W.H.</u>
Average Daily Distributed Load	11,569
Average Daily Distributed Load to Sewage Disposal Works	7,516
Average Daily Distributed Load to Sewage Pumping Station	796
Average Daily Distributed Load to Municipal Garage	350
Average Daily Distributed Load to Highway Garage	346
Average Daily Distributed Load to Garbage Incinerator	2,532

The monthly ash totals from the Incinerator during the year were as follows:

<u>1962</u>	<u>TONS</u>
October	956.00
November	946.00
December	950.00
<u>1963</u>	
January	985.00
February	887.50
March	950.00
April	965.00
May	1010.00
June	927.00
July	1010.00
August	970.00
September	995.00
Total	<u>11,552.00</u>

Repairs to the brickwork in the Combustion Chamber and Firebox in Plant No. 2 was required on three different occasions.

The first two rows of boiler tubes in Boiler No. 1 were replaced. This work was done by our employees.

It was necessary to install a new 3 H.P. motor on the ash conveyor.

Repairs to the crane in Plant No. 1 were made a number of times during the year.

The blowdown lines of Boilers 1 and 2 were replaced with new ones.

The boiler gates of Boilers 1 and 2 were re-built.

New rubber bushings were installed in all the water pumps.

All broken window glass was replaced and the inside of Plant No. 2 was painted.

A number of nipples were welded on the Super-heater tubes in boilers 1 and 2.

New supports and bearings were installed in the ash handling equipment in Plant No. 1.

Leach Refractories Company was called in on two different occasions to repair arches in the firebox in Plant No. 2.

Three new steam traps were installed in Plant No. 1.

New carbon rings and bearings were installed in the water pumps in Plant No. 1 also new diaphragms.

A new siphon pump was purchased and installed in the cellar of Plant No. 1.

#### REFUSE COLLECTION AND DISPOSAL

The Refuse Collection and Disposal Section is responsible for the collection and disposal of all non-combustible refuse from the residential sections of the city once each month. The City is divided into twenty routes. Six trucks, six drivers and twelve laborers are used in this collection.

All materials collected are disposed of in a sanitary fill land-dump situated on Manton Avenue near the junction of Chalkstone Avenue in the City. This section has a bulldozer with an operator working at this location to maintain a clean disposal area. One laborer is also assigned to the dump. The dump site is open five days a week during the year.

The trucks used are 16 cu. yard load packers and are rented from the Sanitation Shop and Stores Revolving Fund on Terminal Road.

This Section also collects non-combustible refuse from Fire and Police Stations, City Buildings and Public Libraries.

The total cubic yards collected for the year follows:

<u>1962</u>	<u>TOTAL</u>
October	3,680
November	4,128
December	3,696
<u>1963</u>	
January	3,808
February	4,250
March	4,068
April	4,208
May	4,208
June	4,272
July	3,776
August	3,856
September	4,000
Total	<u>47,950</u>

Expenditures for this Section for the Fiscal Year were as follows:

Item 0 Personal Services	94,248.88
Item 1 Services Other Than Personal	31,682.20
Item 2 Materials and Supplies	53.46
Total	<u>125,984.54</u>

#### SANITATION SHOPS AND STORES

The Shop and Stores is responsible for the servicing and maintenance of all automotive equipment in the Division, with the exception of the Street Cleaning Section.

The equipment is rented out on an hourly rate to each Section. The rental payments are made to the Sanitation Revolving Fund and this fund is used to defray the operating expenses of the Shop and Stores and to purchase new equipment as needed.

A list of the available rental equipment in the Shop and Stores, is as follows:

- 24 Garbage Collection Trucks with Gar-Wood Loadpacker type bodies.
- 8 Refuse Collection Trucks with Loadpacker type bodies.
- 2 Dump Body Trucks.
- 2 Pickup Trucks 1/2 Ton Capacity.
- 5 Passenger Cars.
- 1 Bulldozer.
- 1 Small Air Compressor.

The Garage and Repair Shop, at 100 Terminal Road, in the Fields Point Section of the City, consists of two sections. One section two hundred feet long and one hundred feet wide is used for storage of equipment. The other section, one hundred feet long and one hundred feet wide is used for repair work and storage when necessary.

The repair shop has all modern equipment to carry on the work. A machine shop is part of the repair shop and it is possible for the section to make new parts or repair broken ones for any other section of the Sanitation Division.

This has saved both time and expense during the past year. Heat and power for the entire building is furnished by the Garbage Incinerator close by. As of the end of this fiscal year, the repair shop was discontinued and all repairs to the Sanitation Division equipment will be made at the Highway Department Building.

#### SANITATION DIVISION REVENUE

The revenue for this division during the fiscal year was as follows:

Sewage Pumping Station	\$ 10.64
Sewage Disposal Section	145,925.07
Garbage Collection and Disposal	3,944.95
Refuse Collection and Disposal	215.00
Total	<u>\$150,095.66</u>

#### RECOMMENDATIONS

The electric crane in Plant No. 1 has been in service twenty-seven years. The probably operating life for this crane at this time is limited to approximately 8 months and much of the shafting and gearing is operating with misalignment so that the need is urgent. It is recommended that arrangements be authorized to contract for the overhaul of this crane through the Harnischfeger Corporation with whom special arrangements can be included.

New preheater tubes should be installed in boilers Nos. 1 & 2 replacing only the ones found to be in poor condition.

The flashing around the brick smoke stack in Plant No. 2 is in very bad condition and should be replaced.

A number of ventilators should be installed in the roof of Plant No. 1, the smoke at times is very bad and the working conditions of the hoppermen and cranemen are not good. This condition should be relieved for it is a health hazard, and the ventilators should exhaust the smoke.

The doors in front of both garbage pits should be renewed.

Arrangements for annual inspection of turbines is necessary through manufacture representative. This has not been done for four years.

A new water jacket should be installed in Plant No. 1, around charging grate.

A half ton pick-up truck should be purchased for this department. This plant is open 24 hours a day, 7 days a week and a truck of this type would be very useful.

Immediate consideration should be given to the installation of a warning system for the detection of radio active isotopes to be installed at such a point in the sewage system that ample time will be available for protecting plant personnel from radioactivity. This warning system is not a stand-by requirement incidental to nuclear attack, but a full time necessity required by the increased use of radio isotopes in industry and medicine which could inadvertently find their way into the City Sewage System.

Shelter of some kind against radio active fallout should be provided at the Sewage Disposal Works with supplies of water, food and bedding for a maximum of 32 employees.

Respectfully submitted,

Howard F. Carpenter  
Chief of Sanitation

HARBOR DIVISION

Mr. Robert B. Strong  
Director of Public Works  
City Hall  
Providence, Rhode Island

Dear Sir:

Following is the Annual Report covering activities of the Harbor Division for the year ending September 30, 1963.

Again we show a healthy increase in both tonnage and revenue.

With the availability of additional land at the south end of the Municipal Wharf the prospects are good for further increase in tonnage and revenue in the very near future.

REVENUE

Lease of Storage Warehouse.....	\$ 61,778.00
Land.....	88,771.84
Wharfage.....	73,696.74
Trackage.....	6,010.00
Water.....	4,790.11
Dockage.....	23,906.80
Storage.....	30,245.54
Miscellaneous.....	4,468.91
	\$ 293,367.94

EXPENDITURES

Item 0.....	\$ 32,950.99
Item 1.....	27,348.90
Item 2.....	2,209.45
	\$ 62,509.34

The following Cargo was shipped from the Municipal Dock October 1, 1962 to September 30, 1963:

Gasoline.....	11.876 Tons
Fuel Oil.....	21.943 "
Kerosene.....	2.162 "
	<u>35.981 Tons</u>

The following Cargo arrived at Municipal Dock from October 1, 1962 to September 30, 1963:

Railroad cars	3,126 cars
Gasoline	367,242 Tons
Fuel Oil	206,525 Tons
Kerosene	17,789 Tons
Lubricating Oil	12,497 Tons
Lumber 51,942,605 B.F.	86,571 Tons
Cement	64,272 Tons
Asphalt	31,327 Tons
Scrap Iron	21,506 Tons
Steel	6,147 Tons

Cargo Arrival Continued:

Fish	555 Tons
Chemicals	4,897 Tons
Pig Iron	8,349 Tons
General Cargo	3,802 Tons
	<u>831,479 Tons</u>

TOTAL TONNAGE

1,109,800 Tons

The following Rigs arrived at the Municipal Dock from October 1, 1962 to September 30, 1963:

80 Steamships  
132 Motor Vessels  
41 Barges

HARBOR ACTIVITIES

TONNAGE SHIPPED

October 1, 1962 to September 30, 1963:

MONTH	GASOLINE	FUEL OILS	KEROSENE	DIESEL	CHEMICALS	ASPHALT	SCRAP	GEN. CARGO
Oct.	51,398	25,994	7,560	248	180	10,500	10,392	
Nov.	38,653	51,657	2,887	2,180	-	2,834	887	
Dec.	38,703	68,753	6,486	-	-	-	10,657	
Jan.	39,856	89,895	6,238	1,034	-	6,000	-	
Feb.	17,074	75,782	6,605	1,635	-	10,666	10,524	
Mar.	35,502	52,368	3,888	-	-	-	10,698	
Apr.	36,731	32,446	3,890	1,932	-	-	10,609	
May	42,300	27,104	1,292	624	-	15,667	10,685	
June	40,519	29,052	1,614	1,771	-	5,824	2,973	
July	54,467	19,282	2,041	1,751	-	-	13,771	
Aug.	40,981	21,669	804	-	-	14,084	7,022	
Sept.	32,543	27,645	3,349	907	-	7,500	-	358
	<u>486,927</u>	521,647	46,654	12,082	180	73,075	88,218	358

TOTAL TONNAGE SHIPPED 1,210,941

TONNAGE RECEIVED

October 1, 1962 to September 30, 1963:

MONTH	GASOLINE	FUEL OILS	KEROSENE	DIESEL	LUBE OIL	ASPHALT	CHEMICALS
Oct.	160,540	238,571	1,432	3,172	2,960	7,300	2,655
Nov.	180,308	293,955	25,419	2,866	2,995	-	3,375
Dec.	169,043	449,235	99,047	2,691	2,356	-	800
Jan.	233,418	763,251	29,171	1,961	1,843	-	800
Feb.	150,205	451,130	25,064	4,526	1,995	2,985	1,200
Mar.	184,536	376,449	30,136	16,488	3,035	9,470	8,989
Apr.	237,995	385,338	18,894	3,104	5,268	4,184	-
May	195,846	261,114	19,240	10,377	6,788	-	1,742
June	196,905	250,349	27,290	16,492	2,959	14,165	3,153

TONNAGE RECEIVED (continued)

MONTH	GASOLINE	FUEL OILS	KEROSENE	DIESEL	LUBE OIL	ASPHALT	CHEMICALS
July	251,415	241,173	17,627	16,278	3,046	3,063	932
Aug.	226,768	291,500	11,267	4,790	4,606	5,112	1,200
Sept.	203,956	184,919	29,258	2,560	5,139	22,972	815
	<u>2,390,935</u>	<u>4,186,984</u>	<u>333,845</u>	<u>85,305</u>	<u>42,990</u>	<u>69,251</u>	<u>25,661</u>

TONNAGE RECEIVED

October 1, 1962 to September 30, 1963:

MONTH	COAL	CEMENT	PIG IRON	RE RODS	LUMBER	STEEL	TUNA
Oct.	45,708	14,837	1,120	1,130	4,484		
Nov.	60,958	3,008			1,964		
Dec.	73,027	8,803					
Jan.	36,024	-					
Feb.	22,601	2,500			21,893		
Mar.	25,004	-			6,643		
Apr.	25,030	14,058			8,942		
May	49,822	18,906			10,086		
June	62,161	18,502			3,748		
July	-	18,808	4,020		19,450	2,374	
Aug.	76,891	11,584	4,087		3,168		198
Sept.	30,344	5,853			6,193		356
	<u>507,570</u>	<u>116,859</u>	<u>9,227</u>	<u>1,130</u>	<u>86,571*</u>	<u>2,374</u>	<u>554</u>

\*(51,942,605 B.F.)

Total Tonnage Received	7,869,289
Total Tonnage Shipped	<u>1,210,941</u>
	9,080,230 Total

FOLLOWING RIGS ARRIVED AT THE HARBOR  
FROM OCTOBER 1, 1962 to SEPTEMBER 30, 1963

MONTH	STEAMSHIPS	MOTOR VESSELS	BARGES	TUGS	U. S. N. SUB	U. S. ENG. DREDGE
Oct.	34	61	17	72		
Nov.	34	54	19	67		
Dec.	43	55	25	78		
Jan.	48	74	8	36		
Feb.	40	59	14	57		
Mar.	40	67	23	66		
Apr.	37	52	15	57	1	
May	35	52	20	57		
June	31	52	21	61	1	
July	32	96	16	57		
Aug.	31	84	15	59		
Sept.	28	56	23	58		1
	<u>433</u>	<u>762</u>	<u>216</u>	<u>725</u>	<u>2</u>	<u>1</u>

Yours very truly,

James J. Fisher,  
Port Agent

PUBLIC SERVICE DIVISION

Mr. Robert B. Strong  
Director of Public Works  
City Hall  
Providence, Rhode Island

Dear Sir:

I respectfully submit the following report for the Public Service Division for the fiscal year 1962-1963.

DATA FOR THE PUBLIC SERVICE ENGINEER  
AS OF SEPTEMBER 30, 1963

THE NARRAGANSETT ELECTRIC COMPANY

1.	(a)	Total number of wood poles in city (including those jointly owned, but not including those jointly used, with no ownership.)	18147
	(b)	Total number jointly owned poles with N.E.T. & T. Co.	13710
		" " " " " U.E.R. Co.	0
		" " " " " Wes. Un. Tel. Co.	0
		" " " " " Pos. Tel. Co.	0
		" " " " " N.E.T. & U.E.R. (3party)	0
		" " " " " U.E.R. & Wes. Un. Tel. Co.	0
		" " " " " N.E.T. & Wes. Un. Tel.Co.	0
2.		Total number iron poles in city	249
		Number of underground street light standards	2301
		" " Ornamental are	0
		" " Ornamental incandescents (Mercury Vapor)	2301
		" " Goose necks	0
		" " Ornamental Inc. with U.E.R.	0
		" " Iron poles with U.E.R.	0
		" " Iron poles with U.E.R. & N. E.T. & T.Co.	0
		" " Iron poles with N.E.T. & T.Co.	9
3.		Total number miles conduit (French feet) in city	83.64
4.		" " miles conduit (duct feet) in city	690.99
5.		" " underground cable in city	883.10
6.		" " miles equivalent single underground conductor	1250.72
6.	(a)	" " aerial cable	341.20
6.	(b)	" " equivalent single conductor aerial cable	894.66
7.		" " aerial open wire	3841.91
8.		" " service pipes or laterals	68.63
9.		" " commercial transformers in city	5890
10.		" " customers supplied directly by U.G. connections	24208
11.		" " customers supplied directly by O.H. connection	49869
12.		" " meters installed in city	74077

13.	Approximate total number of 1Ø 2 wire 115 V. meters in city	33775
14.	" " " " 1Ø 3 wire 115/230 V. meters in city	34995
15.	" " " " 1Ø 2 wire 250 V. meters in city	0
16.	" " " " 1Ø 3 wire 250/500 V. meters in city	0
17.	" " " " 3Ø 3 wire 115 V. meters in city	15
18.	" " " " 3Ø 3 wire 250 V. meters in city	235
19.	Total number of 3Ø 4 wire 120/208 V. meters in city	1650
20.	" " " 1Ø 3 wire 120/208 V. meters in city	2067
21.	" " " D.C. 2 wire and 3 wire 250 and 250/500 V. meters in city	55
22.	Approximate total number of 3Ø 3 wire 575 V. meters in city	1285

PROVIDENCE GAS COMPANY

Total Gas Services in Providence 37,746

Miles of Main:

L.P.	395 Miles	3,668 Feet	
H.P.	8 Miles	401 Feet	
Natural Gas	1 Mile	1,800 Feet	
Total	405 Miles	589 Feet or	405.1
Gas Holders			4
Number of Meters (Active)			53,658
Decrease in Gas Services 9/30/62 - 9/30/63			147
Increase in Miles of Main " - "			1.6
Decrease in Number of Meters " - "			1,607

NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY

Total number wood poles (including jointly used, but not including those jointly used with no ownership)	16,903
Total number of jointly used poles with N.E. Co.	13,710
Total number of jointly used iron poles with N.E. Co.	9
Total number of miles main conduit (trench miles)	63.40
Total number of miles U.G. cable	292.22
Total number of miles aerial cable	267.87
Total wood terminal boxes on poles	199
Approximate number of telephones supplied directly by underground or block distribution	48,426
Approximate number of telephones supplied directly by overhead lines on highways	44,491

The following additions have been made to the equipment in use by this company during the past year

Increase in the number of poles (all headings)	48
Additional miles of cable - U.G. and aerial	43.05
Increase in the number of telephones in use	45

ESTIMATE

This report covers plant statistics as of September 30, 1963.

WESTERN UNION TELEGRAPH COMPANY

City Plant, Providence, Rhode Island

Number of poles	None
Number of poles jointly owned	None
Number of feet of U.G. conduit (tr.ft.)	276
Number of feet of U.G. conduit	922.6
Number of miles of U.G. cable	.743
Number of miles of wire in U.G.	65.12

Number of feet of twisted pair:

(a) On licensed attachments privileged to purchase the poles of other companies:	16,200
(b) Across street:	820
(c) Over private alleys:	280
Manholes owned	1

TRAFFIC ENGINEERING DEPARTMENT

The following is a list of traffic signal equipment in use by the Traffic Engineering Department of the City of Providence.

Total number of traffic signal heads	1,142
Total number of traffic signal poles	589
Total number of traffic signal controllers (local)	160
Total number of traffic signal controllers (master)	5
Total number of feet of underground ducts and laterals	64,936
Total number of miles of underground cable	27.3
Total number of miles of aerial cable	5.3
Total number of miles of equivalent single conductor (underground cable)	136.9
Total number of miles of equivalent single conductor (aerial cable)	26.4

The above list of equipment is owned by the Traffic Engineering Department. At the same time we are using duct space and cable belonging to the New England Telephone & Telegraph Company and the City of Providence Fire Department as follows:

Total number of feet of duct space belonging to the New England Telephone & Telegraph Company assigned to City use	52,530
Total number of feet of duct space belonging to the Fire Department of the City of Providence	3,040
Total number of miles of equivalent single conductor underground cable belonging to the City of Providence Fire Department and assigned for Traffic Engineering Department use	57.6

DEPARTMENT OF PUBLIC SAFETY

Inventory - Signal Construction - Fire Alarm Division - Police Signal System.

September 30, 1963

	Total	September 30, 1963		Quick Action	Door Types.	
		Aerial	U.G.		Key	Keyless
Fire Alarm Boxes	959	584	375	937	9	13
City Owned	665	402	263	665	0	0
Privately Owned	294	182	112	272	9	13
Police Call Boxes	167	103	64			
Total Number of all box and cable pedestals						
" " " " Fire Alarm Box Pedestals					334	
" " " " Police Box pedestals					231	
" " " " Cable Pedestals Only					67	
" " " " Miles of Underground Cables					36	
" " " " " Parkway Cables					85.15	
" " " " " Aerial Cables					1.47	
" " " " Equivalent Single Conductor - Underground					3.52	
" " " " " - Aerial					1258.40	
" " " " " - Parkway					129.30	
" " " " " Footage of all Underground Ducts and Laterals owned by the City					6.42	
" " " " " Number of Poles owned by the City					3445.6	
					36.	
Increase in the number of Fire Alarm Boxes owned by the City					1	
Increase in the number of Fire Alarm Boxes Privately Owned					10	

The above increases are for the current fiscal year.

## STREET LIGHTING SUMMARY

We can again say the high standard of street lighting enjoyed by the citizens on the travelled arteries of the City of Providence has contributed in no small way to the welfare of the pedestrian as well as the motorist in protecting the lives and property of its citizens. The low amount of assault cases on the city streets after dark confirms this fact.

It has increased property valuation and acted as an incentive to property owners to improve their property.

We also feel that our improved street lighting still contributes an important part in enabling the Traffic Engineering Division to gain national recognition for traffic safety on our streets.

We are constantly improving residential lighting, as much as possible where it is feasible, by installing more units to fill in the existing long spacings that were practical years ago when they were installed but where new construction of homes and the full growth of trees have not made those spacings impractical as well as unsafe at night. Possibly, in the future, a controlled tree planting system by our different municipal departments will correct this street light shading by trees in our neighborhoods by recommending the planting of new trees back of the property line and not on the curb line as is presently and formerly done. Many of our cities have resorted to this type of tree planting with excellent results. Some of our existing neighborhood streets are impossible to adequately light at all because of tree foliage grown from trees on both sides of the street extending over the center line of the highways.

Street light breakage has decreased this year by 625, which probably indicates that a weekly copy of the percentage breakage that is mailed to Commissioner Lennon, Colonel Wilding and Colonel Franklin has helped considerably. The redevelopment area still show the greatest amount of breakage.

The Narragansett Electric Company, as per mutual agreement is still in the process of replacing all existing 15000 lumen mercurys to 21000 lumen which is improving the present lighting on our main highways.

This year we are going to relight one of our major streets, namely Elmwood Avenue with new 21000 lumen mercury vapor luminaires to replace the old 10000 lumen incandescents now in service.

The Lippitt Hill area is still in the process of redevelopment and we shall adequately relight this area when it is needed.

The Mashapaug redevelopment area is nearly complete. We have relighted the immediate area of Huntington Avenue with 7000 and 21000 lumen mercurys to be installed on the new streets.

The North-South Freeway from Allens Avenue to Chalkstone Avenue which is called Route #95 is progressing on schedule and we are installing lights as it progresses.

The Central-Classical redevelopment area is still in progress, and we have worked in conjunction with the utility companies in removing and replacing lights as the project develops.

Negotiations were consummated this past year between the Public Service Engineer, Public Works Department and the Narragansett Electric Company, and a new contract or agreement between the utility company and the City of Providence was signed on September 20, 1963.

Field work with the utility companies on pole locations, such as driveways, removals, settings, and underground conduit work, along with our own street light petitions with their necessary field work, as well as sign inspection in regard to overhead line clearance constitutes the bulk of the Public Service Work.

Therefore, it would seem advisable to again recommend to the department that an assistant be added to the Street Lighting Department to maintain and keep up to date the files and outage records so that our department can work in closer proximity and more effectively with both utility companies.

#### PUBLIC SERVICE SUMMARY

The small amount of utility pole petitions received and field checked by this department this year is because neither one of the utility companies had a depreciation survey conducted. The 167 figure represented new and regular maintenance work.

There have not been any gas tests conducted by this division for some time, to check the B. T. U. content of illuminating natural gas, because of the lack of personnel, the inadequate laboratory conditions and the unworkable condition of the two pieces of gas testing equipment.

An added duty of this division is the field inspection and approval of all gas permits and the checking of soil resistivity.

The sign inspections by this division were prompted by some near fatalities in the past, which is now controlled by allowing signs to be only as near high tension wires as the National Safety Code Standard allows and recommends.

This division also field checks, inspects and approves all petitions submitted for the installation of all underground conduit and duct lines installed in Providence by the Narragansett Electric Company, Providence Gas Company, New England Telephone & Telegraph Company, Western Union Telegraph Company, Department of Public Safety and the Traffic Engineering Department.

Christmas decorations have been inspected and approved at Olneyville Square, Mount Pleasant area, Wayland Square, Federal Hill and the Downtown area, sponsored by the various businessmen's associations.

This division also checked and approved all monthly departmental electric and gas bills rendered to all City of Providence departments.

This Department also inspects every new installation request for private lighting by the Narragansett Electric Company for adverse affect on Traffic or homes. These private light sources are either 400 Watt of 1000 Watt floodlight, or private lighting on the sidewalk side of the Utility pole.

Respectfully submitted,

Peter J. Hicks, Jr.  
Public Service Engineer

## FAMILY & BUSINESS RELOCATION SERVICE

Mr. Robert B. Strong  
Director of Public Works  
City Hall  
Providence, Rhode Island

Dear Mr. Strong:

This annual report covers the activity of the Family & Business Relocation Service during the 1962-1963 fiscal year.

During this period of time, many added phases of relocation were adopted in carrying out our responsibility to families, individuals, commercial establishments and the general public.

It is our intention to report all the facts, figures and general information in a detailed manner to avoid any duplication of effort in disseminating this information.

The Relocation Service recorded 15 active projects during the year. At the beginning of this period there were 476 families and individuals within the various project areas. At the end of the year, 108 families remained, therefore, 368 families and individuals were successfully relocated during the entire year.

In the beginning of the year, 131 cases represented our commercial workload; of this number, 88 were successfully relocated and 43 remained on site. As in the past, the programs entailed urban renewal, highway construction and city projects.

An additional undertaking involved the relocation of families from the Bradford House (housing for the elderly) a project held under the auspices of the Providence Housing Authority.

In keeping with past policy and procedure, the Service continued to emphasize the importance of human relations in working out the successful relocation of our site occupants. Greater emphasis was placed on the social and economic factors, in that, many private and public social and welfare agencies were called upon, in a mutual effort, to give added service to our displacees.

Through a detailed program added strides were taken with reference to minority families facing displacement. The activities within this field encompasses the Sub-Committee on Minority Housing, as well as the Urban League of Rhode Island, the Catholic Interracial Council and various neighborhood groups. Closer working procedures were intensified in keeping with the theme of bringing added assistance to our families facing difficult social, health and economic problems.

The dispersal of families and individuals from the various projects, enumerated in this report, continued to remain somewhat static, in that, families and individuals usually relocated within a close geographical area adjacent to the project area.

ANNUAL EXPENDITURES

Personal Services:	\$94,308.16
Federal Fund	\$31,436.05
City Fund	\$62,872.11
Services Other Than Personal	\$ 6,593.00
Materials and Supplies	\$ 725.00
Special Items	\$ 4,000.00
Total City Budget:	\$74,190.11

LISTINGS PROCESSED DURING THE YEAR

With the diminishing workload reflected in the state highway program and the large number of residents moving during the early months from the Central Classical Urban Renewal Project, the demand for listings has lessened to some extent.

The number of listings registered with the Service during the year were as follows: total of rental properties 337, total of sales properties 215, with a grand total of 552 properties in both categories.

In view of the fact that the workload decreased, the request for public appeals for housing likewise diminished during the same period of time. It should be pointed out that the various appeals to the community are made at a time when the needs are the greatest. We therefore anticipate that prior to and during the Weybosset Hill Project the public affairs program will be accelerated to meet the demands placed upon the Service.

RESIDENTIAL DISPLACEMENT

In studying the data compiled relative to residential displacement, various conclusions may be drawn in giving an evaluation of the progress during the past year.

While it is an established fact that the workload has decreased, demands were made on the Service for medium and low priced private housing. As these requirements were being met, the inevitable problem of making available housing of standard quality and within the economic reach of our site occupants still proved to be a major factor.

COMMERCIAL RELOCATION

There were 88 commercial establishments relocated during the year. We have placed greater emphasis on the frequency of visiting business firms at an earlier date to ascertain their needs.

As in the past, the acute problem is to find business facilities in or near the central core of the downtown area. Oftentimes, small marginal business establishments wished to remain close to the area that is being cleared. This invariably presents an added problem due to a lack of available buildings or land.

Our commercial specialist continued to give full service in seeking new locations, rental and sale properties for our commercial occupants.

With the assistance of local agencies and the Industrial Division of the Providence Redevelopment Agency, good results have been achieved.

#### INTERRACIAL ACTIVITY

While the number of non-white displacees decreased during the past year, greater attention was focused on the problem of finding decent, safe and sanitary housing within the economic reach of our minority families.

Through the efforts of our Intergroup Specialist, an increase in meetings and activities related to other departments was noted during this period.

A specialized service was adopted in focusing greater attention on the various problems facing our minority families.

#### SPECIAL PROGRAM FOR THE ELDERLY

This program is now in its second year and already definite advancement has been made in solving some of the difficult problems involved in the displacement of our elderly residents. The Service profited from our first year's activity in making available service to the aging group.

We are aware of the impact that displacement plays when a person is 65 years of age and over. Frequently, limited income and ill health create serious problems in bringing about the successful relocation of our senior citizens.

We are therefore making a fervent effort to learn as much as possible in order to fulfil our obligations to our senior citizens.

#### SUBMISSION OF FORD FOUNDATION ELDERLY GRANT

In the spring of 1963, the Relocation Service submitted a proposal to the Ford Foundation to conduct a two year study and action program under a \$35,000 grant.

After a series of meetings and conferences, the National Advisory Committee of the Ford Foundation approved the application of the Relocation Service to conduct the study.

If final approval is granted by the Ford Foundation, it is our intention to carry out a detailed study of the 153 elderly residents who have successfully been relocated from the Central Classical project area. Upon completion of the study, a service program shall be developed to make available all resources to meet the needs of the displacees. A final project report will climax the requirements of the study.

It is gratifying to be considered for this type of specialized program and further attests to the fact that our own program for the elderly at local level has demanded national attention.

## RANDALL SQUARE

In the fall of 1962, a preliminary meeting was held at the Providence Redevelopment Agency to make plans for a social diagnostic study and action program to assist the displacees within the Randall Square phase of the East Side Urban Renewal Project.

The plan was drafted and submitted to the regional office of the Urban Renewal Administration in New York. The federal Urban Renewal Administration approved the project as an early social planning function and would be reimbursable for the federal contribution when the City elected to select a formula at a later date.

Taking cognizance of the fact that research and consultation service would play an integral part of the specialized program and through the cooperation of Dr. Sidney Dillick, Executive Director and Mr. Franklin W. Zweig, Staff Consultant of the Research Division of the Rhode Island Council of Community Services, Inc., a plan was developed whereby the Council provided the design and consultation service for the Relocation Service. Also, the Bureau of Information and Referral Service of the Council was placed at the disposal of the Relocation Service.

In February 1963, a presentation was made by the Administrator of the Relocation Service to the Providence Redevelopment Agency members giving full details on the proposed study and action program. Approval was given to proceed and a budget in the amount of \$23,000 was authorized.

The plan was then submitted to the Sub-Committee on Minority Housing of the Citizens' Advisory Committee. The Minority Committee likewise voiced its approval of this early planning function for the Randall Square area.

In March 1963, the interviewing phase of the study began. Over the next two months, all families and individuals were contacted and the information was submitted to the Council for scoring and evaluation. There were several meetings conducted between the Relocation Service, representatives of the Providence Redevelopment Agency and the R. I. Council of Community Services.

In late summer, the actual referral program commenced. In a community effort, some thirty private and public health, welfare and employment agencies are currently working with the Relocation Service in rehabilitating the occupants of the Randall Square area.

It is interesting to point out that it is too early to predict, within a degree of certitude, what the final outcome may be. However, we feel assured that the mere fact we were able to work with the families and individuals some twenty months before the actual condemnation proceedings, greater strides can be achieved in minimizing an early exodus from the area. The transition should be orderly, alleviating hardships when condemnation takes place sometime in 1965.

## FEDERAL AID HIGHWAY ACT

With the passage of the Federal Aid Highway Act by Congress in October of 1962, the wheels were set in motion through the Rhode Island State Department of Public Works to appoint a relocation manager to work with local authorities in the further development of a well-balanced relocation operation.

In essence, this bill meant that for the first time the Federal Government would reimburse local communities who contracted with the State to give certain added relocation service to residents and businesses facing displacement as a result of highway activity.

As part of this program, the relocation payment phase was included in the Highway Act, whereby residents would receive up to \$200 for necessary moving expenses, commercial establishments would receive up to \$3,000 for reasonable moving expenses. This moving payment program was to be administered through the Local Public Agency.

Many months passed without a written Agreement between the State of Rhode Island and the Family & Business Relocation Service. However, the work continued to be carried out pending a working contract with the State.

As of this writing, the Relocation Service has processed claims and given service to residents and commercial establishments involved in the seven projects.

There are many distinct advantages of the Federal Aid Highway Act. For the first time, there is a direct liaison between the local community and the State of Rhode Island in all highway undertakings.

In addition, local communities shall receive reimbursement for technical services administered through this program. Finally, business establishments, for the first time, will receive compensation for moving expenses, which heretofore was denied them.

It is our hope that final contractual service shall be culminated within the next few weeks.

#### SUMMARY

While the facts and figures recorded in the annual report speak for themselves, it may be interesting to note that new areas of approach have been carried out in trying to develop progressive action relative to families and businesses facing displacement in future projects.

Fortunately, the availability of standard housing is adequate to meet the needs of planned future projects. We have noted a continuing exodus from the city into the suburban areas during the past year.

In view of the progress made in the interstate routes and highway projects, it is felt that the completion of highway activities should be reached during the 1964 - 1965 fiscal year.

There is much interest centered around the Community Renewal Program which should be made available during the later part of 1964. The findings and directives of this massive study will, to a great extent, effect future relocation programs.

Finally, the degree of cooperation from the public as well as private and public health agencies gives rise to a closer and more diligent working relationship, effecting the well being of our displacees.

It is hoped that this report, limited as it is, in some way will attest to the experiences denoted during the 1962 - 1963 fiscal year.

PROGRESS REPORT ON RESIDENTIAL PHASE

FISCAL YEAR 1962 - 1963

PROJECT	CONDEMNATION DATE	WORKLOAD 10/1/62	RELOCATED DURING FISCAL YEAR	REMAINING ON SITE 9/30/63
<u>URBAN RENEWAL</u> Central Classical	1/2/62	238	234	4
<u>HIGHWAY CONSTRUCTION</u> Eddy to Niagara	3/16/62	8	8	Completed
Elmwood to Cranston City Line	6/6/62	1	1	Completed
Promenade to Charles	12/28/62	41	41	Completed
Orms to Ashburton	10/9/62	7	7	Completed
Douglas to North Davis	11/62	1	1	Completed
Charles to Branch	12/12/62	2	1	1
Ambrose to Chalkstone	1/28/63	6	6	Completed
Red Bridge	2/1/63	39	21	18
Branch to Pawt. City Line	3/25/63	32	19	13
Seymour St.	1/23/63	2	0	2
Orms St.	12/27/62	2	1	1
Huntington Extension	6/30/63	54	20	34
<u>CITY PROJECTS</u> Majestic Parking Site	6/30/61	4	4	Completed
Bradford House (Housing for Elderly)	Negotiation	39	4	35
TOTAL	F&BR-6	476	368	108

REPORT ON RESIDENTIAL CONTACTS

FISCAL YEAR 1962 - 1963

<u>PROJECTS</u>	<u>HOME CONTACT</u>	<u>OFFICE CONTACT</u>	<u>TOTAL</u>
<u>URBAN RENEWAL</u>			
Central Classical	725	292	1,017
<u>HIGHWAY CONSTRUCTION</u>			
Eddy St. to Niagra	47	14	61
Elmwood to Cranston City Line	6	0	6
Promenade to Charles	65	20	85
Orms to Ashburton	54	5	59
Douglas to North Davis	4	0	4
Charles to Branch	15	5	20
Ambrose at Chalkstone	38	3	41
Red Bridge	385	147	532
Branch to Pawt. City Line	125	16	141
Seymour St.	32	6	38
Orms St.	19	0	19
Huntington Extension	524	120	644
<u>CITY PROJECTS</u>			
Majestic Parking Site	48	9	57
Bradford House (Housing for the Elderly)	328	75	403
	<hr/>		
TOTAL	2,415	712	3,127

PROGRESS REPORT ON COMMERCIAL PHASE

FISCAL YEAR 1962 - 1963

<u>PROJECT</u>	<u>CONDEMNATION DATE</u>	<u>WORKLOAD 10/1/62</u>	<u>RELOCATED DURING FISCAL YEAR</u>	<u>REMAINING ON SITE 9/30/63</u>
URBAN RENEWAL *Central Classical	1/2/62	34	29	5
HIGHWAY CONSTRUCTION <u>Eddy to Niagara</u>	3/16/62	8	8	Completed
Niagara to Elmwood	1/19/62	2	2	Completed
Promenade to Charles	12/28/61	32	32	Completed
Douglas to North Davis	11/62	1	1	Completed
Charles to Branch	12/12/62	5	1	4
Ambrose to Chalkstone	1/28/63	5	5	Completed
Route Six (Phase II)	2/63	9	0	9
Red Bridge	2/4/63	8	1	7
Branch to Pawt. City Line	3/25/63	1	0	1
Huntington Extension	6/30/63	14	4	10
CITY PROJECTS <u>Majestic Parking Site</u>	6/30/61	5	5	Completed
Bradford House (Housing for Elderly)	Negotiation	7	0	7
	TOTAL	131	88	43

\*Churches, non-profit organizations, rooming and apartment houses only.

REPORT ON COMMERCIAL CONTACTS

FISCAL YEAR 1962-1963

<u>PROJECTS</u>	<u>CONTACTS</u>
<u>URBAN RENEWAL</u>	
*Central Classical	239
<u>HIGHWAY CONSTRUCTION</u>	
Eddy to Niagara	48
Niagara to Elmwood	14
Promenade to Charles	154
Douglas to North Davis	6
Charles to Branch	56
Ambrose at Chalkstone	56
Route Six (Phase II)	93
Red Bridge	79
Branch to Pawt. City Line	9
Huntington Extension	103
<u>CITY PROJECTS</u>	
Majestic Parking Site	23
Bradford House (Housing for the Elderly)	<u>33</u>
TOTAL	913

\*Churches, non-profit organizations, rooming and apartment houses only.

TOTAL NUMBER OF REFERRALS MADE  
TO RESIDENTIAL AND COMMERCIAL SITE OCCUPANTS

FISCAL YEAR 1962 - 1963

<u>PROJECTS</u>	<u>RESIDENTIAL</u>	<u>COMMERCIAL</u>
<u>URBAN RENEWAL</u>		
Central Classical	248	*7
<u>HIGHWAY CONSTRUCTION</u>		
Eddy to Niagara	6	0
Niagara to Elmwood	0	0
Elmwood to Cranston City Line	0	0
Promenade to Charles	40	6
Orms to Ashburton	24	0
Douglas at North Davis	0	0
Charles to Branch	17	2
Ambrose at Chalkstone	16	9
Route Six (Phase II)	0	32
Red Bridge	42	7
Branch to Pawt. City Line	57	2
Seymour St.	11	0
Orms St.	7	0
Huntington Extension	56	11
<u>CITY PROJECTS</u>		
Majestic Parking Site	7	3
Bradford House (Housing for the Elderly)	29	2
TOTAL	560	81

\*Churches, non-profit organizations, rooming and apartment houses only.

RECORD OF LISTINGS PROCESSED FOR ALL PROJECTS

FISCAL YEAR 1962 - 1963

<u>QUARTERLY</u>	<u>RENTAL PROPERTIES</u>		<u>SALE PROPERTIES</u>		<u>TOTAL</u>
	<u>APPROVED</u>	<u>REJECTED OUT OF CITY</u>	<u>APPROVED</u>	<u>REJECTED OUT OF CITY</u>	
Oct. 1 - Dec. 31, 1962	77	33	11	3	143
Jan. 1 - March 31, 1963	42	15	23	7	120
April 1 - June 30, 1963	40	38	25	2	138
July 1 - Sept. 30, 1963	45	8	53	5	151
TOTAL	204	94	112	17	552

TOTAL RENTAL PROPERTIES 337  
 TOTAL SALE PROPERTIES 215  
 GRAND TOTAL 552