

THE CITY OF  
PROVIDENCE, RHODE ISLAND

**Annual Report  
of the  
Department of Public Works**

FOR THE FISCAL YEAR **1958 -- 1959**

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DECEMBER 31, 1959

DEPARTMENT OF PUBLIC WORKS

OFFICE 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, 1959 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 WAS COMPLETED DURING THE YEAR ON THE FOLLOWING PROJECTS:

"CONSTRUCTION OF NEW HIGHWAYS IN SUNDRY STREETS" BY THE FANNING & DOORLEY CONSTRUCTION CO. INC.

"RECONSTRUCTION OF HIGHWAYS IN SUNDRY STREETS" BY THE CAMPANELLA & CARDI CONSTRUCTION CO.

"BUILDING OF SEWERS IN SUNDRY STREETS" BY EDWARD F. CAPALDI, INC.

"REPAIRING OF TUBES IN THE BOILERS OF GARBAGE INCINERATOR UNIT NO.1" BY JOHN W. GRUNDY.

"SUPPORTING FACILITIES TO THE WEST RIVER REDEVELOPMENT PROJECT NO. UR R.I. 1-6" BY THE CAMPANELLA & CARDI CONSTRUCTION COMPANY.

CONTRACT WORK WAS IN PROGRESS ON THE FOLLOWING PROJECTS:

"RECONSTRUCTION OF HIGHWAYS IN SUNDRY STREETS" BY M.A. GAMMINO CONSTRUCTION COMPANY.

"CONSTRUCTION OF HIGHWAYS IN SUNDRY STREETS" BY THE M.A. GAMMINO CONSTRUCTION COMPANY.

"BUILDING OF SEWERS IN SUNDRY STREETS" BY D'ERCOLE CONSTRUCTION COMPANY.

"CONSTRUCTION OF PUBLIC WORKS OFFICE BUILDING AND GARAGE" BY JOSEPH P. FLYNN, CONTRACTOR. PLANS AND SPECIFICATIONS FOR THIS PROJECT WERE PREPARED BY CREER, KENT, CRUISE & ALDRICH, ARCHITECTS.

PREPARATION OF PLANS AND SPECIFICATIONS FOR "THE EXTENSION OF THE MUNICIPAL DOCK" BY FENTON G. KEYS ASSOCIATES. IT IS EXPECTED THAT PLANS AND SPECIFICATIONS WILL BE READY SO THAT BIDS ON THIS PROJECT MAY BE SOLICITED IN FEBRUARY OF 1960.

"SUBSURFACE EXPLORATIONS FOR THE EXTENSION OF THE MUNICIPAL DOCK" BY THE RAYMOND CONCRETE PILE COMPANY.

PREPARATION OF PLANS AND SPECIFICATIONS FOR "IMPROVEMENTS AT MAIN SEWAGE PUMPING STATION, RECONDITIONING OF VACUUM FILTERS AND MISCELLANEOUS IMPROVEMENTS AT SEWAGE TREATMENT PLANT" BY METCALF & EDDY, ENGINEERS.

HIGHWAY CONSTRUCTION AND RECONSTRUCTION DURING THE YEAR CONSISTED OF THE RESURFACING WITH ASPHALTIC CONCRETE OF 157,561 SQUARE YARDS OF PAVEMENT BY PUBLIC WORKS HIGHWAY FORCES; THE RECONSTRUCTION WITH CONCRETE BASE AND SHEET ASPHALT OR ASPHALT CONCRETE WEARING SURFACE OF 32,734 SQUARE YARDS OF PAVEMENT BY CONTRACT; AND THE CONSTRUCTION WITH BITUMINOUS MACADAM OF 6,093 SQUARE YARDS OF PAVEMENT IN NEW STREETS BY CONTRACT. ALSO, UNDER THE FEDERAL CRASH PROGRAM WITH THE CITY CONTRIBUTING ONE-SIXTH OF THE TOTAL COST OF THE WORK, THE STATE DEPARTMENT OF PUBLIC WORKS RECONSTRUCTED 109,909 SQUARE YARDS OF PAVEMENT IN ALLENS, DOUGLAS, ELMWOOD AND RESERVOIR AVENUES.

SEWER CONSTRUCTION DURING THE YEAR CONSISTED OF THE BUILDING OF 1.75 MILES OF MAIN DRAINS, TOGETHER WITH LATERALS AND DRAINAGE STRUCTURES IN SUNDRY STREETS, BY CONTRACT.

SEVERAL CONFERENCES HAVE BEEN HELD WITH PARTIES INTERESTED IN LOCATING AT THE MUNICIPAL DOCK AND THE FURTHER DEVELOPMENT OF THIS FACILITY IN THE NEAR FUTURE APPEARS FAVORABLE.

EACH YEAR APPROXIMATELY 30,000 TONS OF REFUSE IS COLLECTED FROM COMMERCIAL ESTABLISHMENTS BY PRIVATE CARRIERS AND DELIVERED TO THE GARBAGE INCINERATOR FOR DISPOSAL AND IT IS CERTAIN THAT SOME OF THIS COMMERCIAL REFUSE IS COLLECTED FROM AREAS OUTSIDE THE LIMITS OF THE CITY OF PROVIDENCE.

THE INCINERATION OF COMMERCIAL REFUSE CREATES MUCH HIGHER TEMPERATURES THAN THE INCINERATION OF DOMESTIC GARBAGE, THEREBY SHORTENING THE NORMAL LIFE OF THE INCINERATOR REFRACTORY LININGS AND STEEL FRAME WORK.

WE BELIEVE THAT SERIOUS CONSIDERATION SHOULD BE GIVEN TO THE ENACTMENT OF A SO-CALLED "SCAVENGER LAW" TO LICENSE AND CONTROL PRIVATE COLLECTORS OF REFUSE AND AN ORDINANCE SETTING UP A SYSTEM OF FEES FOR THE INCINERATION OF REFUSE.

MANY MUNICIPALITIES THROUGHOUT THE COUNTRY LICENSE PRIVATE REFUSE COLLECTIONS AND ALSO CHARGE A FEE FOR THE INCINERATION OF REFUSE.

"LITTER BUGS" CONTINUE TO THROW DEBRIS ON OUR HIGHWAYS AND BECAUSE OF THIS, TOGETHER WITH MATERIALS SUCH AS LOAM, REFUSE, SAND, COAL, PAPER, ETC. FALLING FROM TRUCKS ONTO THE HIGHWAYS, IT BECOMES INCREASINGLY DIFFICULT TO KEEP THE HIGHWAYS CLEAN. ALSO, MANY CITIZENS USE CATCH BASINS AS WASTE RECEPTACLES AND DEPOSIT PAPER, GRASS, LEAVES, HEDGE TRIMMINGS AND OTHER DEBRIS THEREIN, WHICH PREVENTS THE OPERATION OF THE TRAPS IN THE BASINS AND THE RUNOFF OF SURFACE WATER, THEREBY CAUSING THE FLOODING OF ADJACENT AREAS. WE BELIEVE THAT AN EDUCATIONAL PROGRAM THROUGH THE PRESS, RADIO, TELEVISION, AND THE SCHOOLS WOULD AID GREATLY IN

ELIMINATING THESE CONDITIONS. A LECTURE ANNUALLY TO THE PUPILS IN EACH ROOM IN EVERY SCHOOL IN THE CITY WOULD BE A VERY GOOD MEANS OF GRADUALLY INFORMING THE PEOPLE OF THE IMPORTANCE OF KEEPING HIGHWAYS CLEAN AND CATCH-BASINS FREE OF DEBRIS.

OUR RELATIONS HAVE BEEN VERY CORDIAL WITH THE LOCAL OFFICE OF THE BUREAU OF PUBLIC ROADS, HEADED BY MR. JOSEPH WESTELL; THE STATE DEPARTMENT OF PUBLIC WORKS, HEADED BY MR. ANGELO MARCELLO; THE U.S. ARMY CORPS OF ENGINEERS; AND THE CONSULTING ENGINEERS ON THE NORTH-SOUTH FREEWAY, LOUISQUISSET PIKE, HUNTINGTON AVENUE EXPRESSWAY, FOX POINT HURRICANE BARRIER, RED BRIDGE, AND HARTFORD AVENUE PROJECTS AND WE APPRECIATE THE COURTESIES AND COOPERATION EXTENDED US.

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.

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, WILLIAM A. GRAY, ANDREW F. EGAN, THOMAS L. PAYNE AND FRANK LAZARUS.

I WISH TO THANK ALL DIVISION HEADS AND EMPLOYEES OF THE DEPARTMENT FOR THEIR LOYALTY AND VALUABLE ASSISTANCE RENDERED DURING THE YEAR AND EXPRESS MY THANKS AND APPRECIATION FOR THE COOPERATION EXTENDED TO THE DEPARTMENT BY OTHER CITY DEPARTMENTS.

#### RECOMMENDATIONS

1. CONTINUE THE PROGRAM OF CONSTRUCTION OF SEWERS AND HIGHWAYS IN UNIMPROVED STREETS, WHICH HAVE BEEN ORDERED BY THE CITY COUNCIL.
2. WORK REQUIRED AT THE GARDAGE INCINERATOR INCLUDE THE FOLLOWING ITEMS:-
  - A. INSTALL FOUR DOORS AT GARDAGE PIT IN UNIT NO.1
  - B. REPLACE BOTH SMOKE STACKS, FROM THE ROOF UP, IN PLANT NO.1.
  - C. OVERHAUL THE ELECTRIC CRANE IN PLANT NO.1.
  - D. REPLACE ALL THE SUPERHEATER TUBES IN BOILERS NO. 1 AND 2 AND APPROXIMATELY ONE-HALF IN BOILERS NO.3 AND 4.
  - E. EXTENSIVE REPAIRS TO AND THE RELINING OF UNIT NO.1.
3. ERECT A NEW FENCE ON THE BRIDGE AT MARKET SQUARE, BETWEEN WESTMINSTER STREET AND EXCHANGE PLACE.
4. PAINT THE UNDERSIDE OF THE BRIDGE IN THE MEMORIAL, MARKET AND CRAWFORD SQUARES AREA.
5. REBUILD THE MERINO PARK FOOTBRIDGE.
6. MAKE FUNDS AVAILABLE PRIOR TO JUNE 29, 1960 TO CONTRACT FOR DIVISION 111, "FURNISHING AND INSTALLING 2,300-VOLT SWITCHBOARD INCLUDING ALL WIRING, CONDUITS AND APPURTENANT WORK AT THE MAIN SEWAGE PUMPING STATION", FOR WHICH BIDS WERE RECEIVED ON SEPTEMBER 29, 1959 AS ONE DIVISION OF THE CONTRACT DOCUMENTS PREPARED BY METCALF & EDDY FOR "IMPROVEMENTS AT MAIN SEWAGE PUMPING STATION, RECONDITIONING OF VACUUM FILTERS AND MISCELLANEOUS IMPROVEMENTS AT FIELDS POINT SEWAGE TREATMENT PLANT"

IN CITY COUNCIL

FEB 18 1960

READ:

WHEREUPON IT IS ORDERED THAT  
THE SAME BE RECEIVED.

*D. Everett Wheeler*  
CLERK

RESPECTFULLY SUBMITTED,

*Charles F. McElroy*  
CHARLES F. McELROY  
DIRECTOR OF PUBLIC WORKS.

BUSINESS MANAGEMENT

MR. CHARLES F. McELROY,  
DIRECTOR OF PUBLIC WORKS,  
CITY HALL, PROVIDENCE, R. I.

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, 1959.

STATEMENT OF REVENUE - ESTIMATED AND ACTUAL

	BUDGET ESTIMATE	NET-ACTUAL REVENUE	BUDGET EXCESS	COMPARISON DEFICIENCY
BUSINESS AND NON-BUSINESS				
LICENSES				
SIDEWALK CONTRACTORS	750.00	630.00	-	120.00
HIGHWAY PRIVILEGES	1200.00	930.00	-	270.00
TOTAL BUSINESS - NON-BUSINESS LICENSES	\$1950.00	\$1560.00	-	390.00
SEWER ASSESSMENT:				
SEWERS	50000.00	47807.03	-	2192.97
SIDEWALK AND CURBING	\$100.00	2811.98	2711.98	-
TOTAL SPECIAL ASSESSMENTS	\$50100.00	\$50619.01	2711.98	2192.97
DEPARTMENTAL REVENUE:				
P.W. ADMINISTRATION	-	69.40	69.40	-
SEWAGE PUMPING	-	141.60	141.60	-
SEWAGE DISPOSAL	-	31099.42	31099.42	-
GARBAGE COLLECTION AND DISPOSAL	9000.00	4513.57	-	4486.43
REFUSE COLLECTION AND DISPOSAL	-	470.00	470.00	-
HIGHWAY	25000.00	22323.24	-	2676.76
FORESTRY	-	171.23	171.23	-
SEWER CONSTRUCTION AND MAINTENANCE	40000.00	36014.29	-	3985.71
STREET LIGHTING	-	103.90	103.90	-
MUNICIPAL DOCKS	206000.00	234848.56	20840.56	-
DRAW BRIDGES	-	25.20	25.20	-
HARBOR MASTER	-	18.36	18.36	-
TOTAL DEPARTMENT REVENUE	\$280000.00	\$329798.77	\$60947.67	\$11148.90
TOTAL STATEMENT	\$332050.00	\$381977.78	\$63659.65	\$13731.87

# STATEMENT OF EXPENDITURES

FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1959

	PERSONAL SERVICES	SERVICES OTHER THAN PERSONAL	MATERIALS AND SUPPLIES	EQUIPMENT OUTLAY	TOTAL
GENERAL ADMINISTRATION	27025.45	1601.11	55.93	-	28682.49
BUSINESS MANAGEMENT	32665.56	336.93	503.86	-	33506.35
ENGINEERING OFFICE	133704.71	6174.19	666.23	-	140545.13
SANITATION DIVISION:					
SANITATION ADMINISTRATION	11201.92	699.40	24.81	-	11926.13
STREET CLEANING	324088.64	56864.34	2693.57	-	383646.55
SEWAGE PUMPING STATION	59581.88	968.11	4971.34	-	65521.33
SEWAGE DISPOSAL	194032.25	122942.68	138860.18	302.08	456137.19
GARBAGE COLLECTION AND DISPOSAL	544036.22	117271.03	15342.13	-	676649.38
REFUSE COLLECTION AND DISPOSAL	99112.71	30801.10	12.60	-	129926.41
CONSTRUCTION AND MAINTENANCE DIVISION:					
CONSTRUCTION AND MAINTENANCE ADMINISTRATION	7808.92	1177.20	-	-	8986.12
HIGHWAYS	701647.00	140268.30	113722.17	-	955637.47
BRIDGE MAINTENANCE	43370.56	3255.65	6461.14	-	52787.35
SIDEWALK AND CURBING	16931.72	3576.49	809.46	-	21317.67
FORESTRY	69059.26	14970.46	5253.47	-	89283.19
SNOW REMOVAL	85767.72	53880.96	51326.35	-	190995.03
SEWER CONSTRUCTION AND MAINTENANCE	314210.73	50033.94	17771.32	-	382015.99
PUBLIC BUILDINGS	84104.08	4497.60	358.96	-	88960.64
DRAWBRIDGE OPERATION	37263.91	881.19	308.43	-	38473.53
MUNICIPAL DOCK	32819.60	6309.10	1450.70	-	40579.40
HARBOR MASTER	4238.36	152.66	23.51	-	4414.53
STREET LIGHTING	4241.25	502267.29	10.00	-	506518.54
DIVISION OF RELOCATION	21056.69	5480.75	388.24	68.93	26994.61
TOTAL-PUBLIC WORKS ACTIVITIES	\$2843009.14	\$1124410.48	\$360714.40	\$371.01	\$4333505.03

THE FOLLOWING SERVICES WERE ALSO RENDERED BY THIS DEPARTMENT.

APPLICATIONS RECEIVED

FOR ALTERING DRIVEWAYS	115
CONSTRUCTION OF DRIVEWAYS	171
CURBING RESET	<u>53</u>
TOTAL APPLICATIONS	339

LICENSES ISSUED.

PUSH CARTS	13
SIDEWALK STANDS	36
DRAIN LAYER LICENSES	8
DRAIN LAYERS LICENSES (LIMITED TO SPRINKLER SYSTEMS)	<u>2</u>
TOTAL LICENSES	59

PERMITS ISSUED

PUBLIC UTILITIES	219
BLASTING	6
FOR MOVING CUMBERSOME EQUIPMENT, ETC.	22
STREET OPENINGS (WATER SUPPLY BOARD)	251
ORIGINAL PERMITS FOR SEWER CONNECTIONS	194
EXTENSION OF HOUSE DRAINS	338
SIDEWALK OPENINGS FOR WATER SERVICE	48
STREET OPENINGS (OTHER)	<u>220</u>
TOTAL PERMITS	1298

RESPECTFULLY SUBMITTED

JOHN V. DAVIDSON  
BUSINESS MANAGER.

ENGINEERING OFFICE

MR. CHARLES F. McELROY,  
DIRECTOR OF PUBLIC WORKS,  
CITY HALL, PROVIDENCE, R.I.

DEAR SIR:

FOLLOWING IS THE ANNUAL REPORT COVERING THE VARIOUS ACTIVITIES OF THE  
ENGINEERING OFFICE FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1959.

THE EXPENDITURES OF THE DIVISION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$133,704.71
ITEM 1 SERVICES OTHER THAN PERSONAL	6,174.19
ITEM 2 MATERIALS AND SUPPLIES	<u>666.23</u>
TOTAL	140,545.13

STREET LINE AND CITY PROPERTY SECTION

NOTICES OF INTENTION TO BUILD

THERE WERE 221 NOTICES OF INTENTION TO BUILD FILED IN THIS OFFICE DURING THE FISCAL YEAR. SIX OF THESE WERE NOT REQUIRED FOR VARIOUS REASONS. IN RESPONSE TO THE REMAINING 215 NOTICES, THE STREET LINES WERE MARKED ON THE GROUND AS REQUESTED FOR THE SPECIFIED LOCATIONS.

FIELD SURVEYS ON THE 29 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 AND THE EXTENSION OF THE DENNIS J. ROBERTS EXPRESSWAY.

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>
AINSWORTH STREET	DOUGLAS AVENUE TO CAXTON STREET	200.00
APPIAN STREET	NORTH LINE CORINA STREET, WEST OF APPIAN STREET	
	TO NORTH LINE CORINA STREET, EAST OF APPIAN STREET	60.55
ARGOL STREET	TRIANGULAR STRIP - ELY SIDE FROM	
	NELLIE STREET 152.45 FEET NORTHERLY	
BINGHAM STREET	BRANCH AVENUE TO CAXTON STREET	200.00



BLACKSTONE STREET	STRIP OF LAND ON SOUTHERLY SIDE FROM PRAIRIE AVENUE 424.26 FEET EASTERLY.	
CARDER STREET	CAXTON STREET TO NORTHERLY LINE OF BURTON STREET	190.00
CAXTON STREET	EASTERLY LINE CARDER STREET TO WESTERLY LINE AINSWORTH STREET	404.54
CLOUD STREET	SISSON STREET TO UNIT STREET	160.00
CORNWALL STREET	SOUTHERLY LINE LONGMONT STREET TO NORTHERLY LINE CHESHIRE STREET	627.99
CORINA STREET	EASTERLY LINE APPIAN STREET TO GLASGOW STREET	371.05
CURTIS STREET	BOSWORTH STREET TO SHERIDAN STREET	715.25
ELLENFIELD STREET	EASTERLY LINE VIRGINIA AVENUE TO BAKER STREET	654.00
FREEDOM ROAD	OAKWOOD AVENUE, WESTERLY AND NORTHERLY TO PORTION ALREADY RECEIVED	611.37
GARIBALDI AVENUE	LANGDON STREET TO STANHOPE STREET	478.45
GLASGOW STREET	CORINA STREET TO HAWKINS STREET	400.00
GLASGOW STREET	HAWKINS STREET SOUTHERLY TO AN ANGLE AND EASTERLY TO SALINA STREET	466.71
HARMONY DRIVE	200 FEET SOUTH OF CHALKSTONE AVENUE TO FREEDOM ROAD	287.21
LABAN STREET	338 FEET EAST OF GIFFORD STREET TO PLAINFIELD STREET	289.70
LONGFELLOW TERRACE	LONGFELLOW STREET TO ROGER WILLIAMS AVENUE	598.65
McMILLEN STREET	ASCHAM STREET EASTERLY TO PORTION ALREADY RECEIVED	266.10
RICHLAND STREET	EDGEMERE AVENUE TO SOUTHEASTERLY LINE FAIRFIELD AVENUE	299.00
RIDGEWAY AVENUE	MANTON AVENUE 234.2 FEET EASTERLY	234.20
ROGER WILLIAMS AVENUE	ELMWOOD AVENUE TO MELROSE STREET	831.38
ST. THOMAS STREET	FRUIT HILL AVENUE TO TARANTO STREET	306.92
SHIP STREET	PARCEL OF LAND ON NORTHERLY SIDE OPPOSITE ELBOW STREET	
THURSTON STREET	ELMWOOD AVENUE TO WESTERLY TERMINATION	321.93
WARDLAW AVENUE	FORMER TERMINATION TO STONELAW AVENUE	230.57
WATERMAN STREET	PARCEL OF LAND ON NORTHERLY SIDE, WEST OF PROSPECT STREET	
WINDMILL STREET	TRIANGULAR PARCEL OF LAND ON WESTERLY SIDE, NORTH OF ANGLE NORTH OF PAUL STREET	

TOTAL FEET (OR 1.730 MILES)	9,135.57
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THE FOLLOWING STREETS WERE ABANDONED DURING THE YEAR:

RECEIVED STREETS ABANDONED

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
CLAVERICK STREET	CLIFFORD STREET NORTHWESTERLY TO TERMINATION	95.35
COIN STREET	SO. MAIN STREET TO SQ. WATER STREET	137.14
GEORGIA AVENUE	320 FEET EAST OF TENNESSEE AVENUE TO FORT AVENUE	200.00
WARD STREET	SO. MAIN STREET TO SO. WATER STREET	142.62
WESTCOTT STREET	TRIANGULAR PORTION 123.01 NORTH OF MANTON AVENUE, NORTHERLY	
		575.11

# UNRECEIVED STREETS ABANDONED

AMY STREET	BUTLER AVENUE WESTERLY TO LAND OF N.Y., N.H. & H. RAILROAD CO.	900.00
CAROLINA AVENUE	320 FEET EAST OF TENNESSEE AVENUE TO FORT AVENUE	200.00
CAXTON STREET	20 FEET EAST OF EASTERLY LINE CARDER STREET TO WESTERLY LINE WILD STREET	540.00
CHAPMAN STREET	240 FEET EAST OF TENNESSEE AVENUE TO FORT AVENUE	280.00
DIAZ STREET	FOCH AVENUE TO NORTHERLY TERMINATION	80.00
DOVE STREET	52.01 FEET NORTH OF JOHN STREET TO WILLIAMS STREET	144.00
PRESTON STREET	BUTLER AVENUE WESTERLY TO LAND OF N.Y., N.H. & H. RAILROAD CO.	340.00
SYMONDS STREET	WESTMINSTER STREET TO CHAPEL STREET	181.72
TINGLEY STREET	535.56 FEET EAST OF ACORN STREET TO EASTERLY TERMINATION	125.04
TORONTO AVENUE	320 FEET EAST OF TENNESSEE AVENUE TO FORT AVENUE	200.00
UNNAMED STREETS	BRANCH AVENUE AND WOODWARD ROAD	570.00
WAYLAND AVENUE	100 FEET SOUTH OF EAST GEORGE STREET TO LAND OF N.Y., N.H. & H. RAILROAD CO.	190.00
		<u>3,750.76</u>

THE APPROXIMATE LENGTH OF STREETS PLATTED BUT NOT RECEIVED IS 50.059 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 1959 (MEASURED ALONG PROPERTY LINES) 360.116 MILES.

IN ADDITION TO THE TOTAL OF RECEIVED STREETS THERE ARE 3.21 MILES OF ROADWAYS IN THE GOVERNOR DENNIS J. ROBERTS EXPRESSWAY.

THE FOLLOWING STREETS, ALL RECENTLY PLATTED, HAVE BEEN ADDED TO THE LIST OF UNRECEIVED STREETS:

HENNESSEY STREET, FROM WALSH STREET TO ST. THOMAS STREET.  
JASPER STREET FROM ITS FORMER EASTERLY TERMINATION TO WINDMILL .  
DI MARIO DRIVE FROM JASPER STREET TO ITS NORTHERLY TERMINATION

CITY PROPERTY PLANS AND SURVEYS WERE MADE COVERING THE FOLLOWING PROJECTS:

BINGHAM STREET	LAND REQUIRED FOR HIGHWAY
CARDER STREET	LAND REQUIRED FOR HIGHWAY
ARGOL STREET	LAND REQUIRED FOR HIGHWAY
WARDLAW AVENUE	LAND REQUIRED FOR HIGHWAY
ERNEST STREET	ZONING EXCEPTION
FIELDS POINT	PROPOSED LEASE
CAXTON STREET	PROPOSED ABANDONMENT
WATERMAN STREET	LAND REQUIRED FOR HIGHWAY
WINDMILL STREET	LAND REQUIRED FOR HIGHWAY
SHIP STREET	LAND REQUIRED FOR HIGHWAY
FIELDS POINT	CROSS SECTION
UNNAMED STREETS	PROPOSED ABANDONMENT
PACKET STREET	LAND REQUIRED FOR HIGHWAY

BLACKSTONE STREET	LAND REQUIRED FOR HIGHWAY
CHAPMAN STREET	PROPOSED ABANDONMENT
TORONTO AVENUE	PROPOSED ABANDONMENT
GEORGIA AVENUE	PROPOSED ABANDONMENT
CAROLINA AVENUE	PROPOSED ABANDONMENT
TERMINAL ROAD	PROPOSED EASEMENT
FIELDS POINT	STUDY PLAN
CHARLES STREET	PROPOSED PURCHASE
CUSHING STREET	PROPOSED ABANDONMENT
DANFORTH STREET	UTILITIES PLAN
METCALF FIELD	CROSS SECTION
FIELDS POINT	STUDY PLAN
SYMONDS STREET	PROPOSED ABANDONMENT
WAYLAND AVENUE	PROPOSED ABANDONMENT
AMY STREET	PROPOSED ABANDONMENT
PRESTON STREET	PROPOSED ABANDONMENT
FREEDOM ROAD	LAND REQUIRED FOR HIGHWAY
DIAZ STREET	PROPOSED ABANDONMENT
TINGLEY STREET	PROPOSED ABANDONMENT
FIELDS POINT	STUDY PLAN
DANFORTH STREET	CROSS SECTION
CHALKSTONE AVENUE	PROPOSED SALE
CYPRESS STREET	PROPOSED SALE
FIELDS POINT	PROPOSED LEASE
WESTCOTT AVENUE	PROPOSED ABANDONMENT
DANFORTH STREET	SCHOOL CONDEMNATION
FIELDS POINT	PROPOSED LEASE
DANFORTH STREET	PLAYGROUND CONDEMNATION
DOVE STREET	PROPOSED ABANDONMENT
OXFORD STREET	UTILITIES PLAN
MANTON AVENUE	PROPOSED LEASE
UNNAMED STREET	PROPOSED ABANDONMENT
MUNICIPAL DOCK	OIL PIPE LINES
SALVAN STREET	LAND REQUIRED FOR HIGHWAY
FIELDS POINT	PROPOSED LEASE
OXFORD STREET	SCHOOL CONDEMNATION
UNNAMED GANGWAY	PROPOSED ABANDONMENT
PILSUOSKI STREET	PROPOSED SALE
ELM STREET	PROPOSED ABANDONMENT
CHARLES STREET	PROPOSED SALE
SOMERSET STREET	ELEVATIONS
OXFORD STREET	PLAYGROUND CONDEMNATION
NIAGARA STREET	LAND REQUIRED FOR HIGHWAY

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:

PLAINFIELD AND EDNA STREETS  
BLACKSTONE STREET  
WESTMINSTER AND HARRISON STREETS  
HOPE AND NINTY STREETS  
SMITH STREET  
CHARLES STREET  
HAWKINS STREET  
HULDAH STREET  
POCASSET AVENUE  
THURBERS AVENUE AND RUGBY STREET  
BUTLER AVENUE  
CHARLES STREET AND LEO AVENUE  
DOUGLAS AVENUE AND BUSH STREET  
CLARKSON STREET  
CHAD BROWN STREET AND DOUGLAS AVENUE  
MYSTIC STREET  
LOUISQUISSET TURNPIKE EXTENSION  
BRANCH AVENUE AND VEAZIE STREET  
SALMON STREET  
BROADWAY

DESCRIPTIONS OF THE ABOVE APPROVED CHANGES WERE DRAFTED AND FURNISHED THE ZONING OFFICE FOR INCORPORATION IN THE ORDINANCES.

TWENTY-FIVE PLANS WERE DRAWN FOR AMENDMENTS TO THE ZONING ORDINANCE THAT FAILED OF PASSAGE.

#### NORTH BURIAL GROUND

DURING THE YEAR 41 DEEDS TO LOTS COVEYED BY THE CITY AND 46 CERTIFICATES OF PERPETUAL CARE HAVE BEEN DRAWN. DESCRIPTIONS OF THE LOTS WERE FURNISHED THE SUPER-INTENDENT, FIELD SURVEYS WERE MADE AND LOTS STAKED OUT ON THE GROUND WHEN REQUESTED. ELEVATIONS WERE TAKEN AND A SURVEY WAS MADE FOR THE DEVELOPMENT OF A NEW SECTION AT THE REQUEST OF THE SUPERINTENDENT.

#### GENERAL

DURING THE YEAR THE FOLLOWING WORK OF A SPECIAL NATURE WAS COMPLETED:

ELEVATIONS WERE TAKEN AND PLANS MADE FOR IMPROVEMENTS AT SOMERSET STREET PLAYGROUND.

SURVEYS WERE MADE AND CROSS-SECTIONS WERE TAKEN ON SITE OF PROPOSED NEW SCHOOL AND PLAYGROUND AT CAMDEN AVENUE, DANFORTH, VALE AND CLARA STREETS.

SURVEYS WERE MADE AND CROSS-SECTIONS WERE TAKEN ON SITE OF PROPOSED NEW SCHOOL AND PLAYGROUND AT OCEAN, OXFORD, MINER, BURNSIDE AND SAYLES STREETS.

THE MAGNETIC VARIATION OF THE COMPASS WAS OBSERVED AND RECORDED.

SURVEYS WERE MADE AT THE REQUEST OF THE TAX ASSESSOR'S OFFICE TO DEFINE THE CITY LINE AT ROSEMONT TERRACE AND AT WANSKUCK AVENUE.

ELEVATIONS WERE TAKEN FOR PROPOSED MARINA AT GANO STREET.

SURVEYS WERE MADE FOR NEW ROADS AT FIELDS POINT.

PLANS WERE MADE SHOWING ALL UTILITIES AT THE NEW SCHOOL AND PLAYGROUND SITES AT OXFORD STREET AND AT DANFORTH STREET.

SURVEYS WERE MADE AND CONDEMNATION PLANS DRAWN FOR TWO NEW SCHOOL AND PLAYGROUND SITES:

SMITH HILL AREA (DANFORTH ST.)  
SOUTH PROVIDENCE AREA (OXFORD ST.)

GRADES WERE MARKED FOR PLAYGROUNDS AT APRIL COURT AND HAWKINS STREET (METCALF FIELD).

ELEVATIONS WERE TAKEN, PLANS MADE AND DATER BOARDS SET FOR CONSTRUCTION OF NEW PUBLIC WORKS GARAGE AT ERNEST AND CHAPMAN STREETS.

LEASES

SURVEYS WERE MADE FOR SEVERAL/OF CITY OWNED LAND AT FIELDS POINT,

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 ASSESSOR 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 CHAPTERS 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 AND REDEVELOPMENT AGENCY, FROM TIME TO TIME.

THE R.L. POLK MAP AND OTHER MAPS OF THE CITY PUBLISHED BY VARIOUS COMPANIES WERE REVISED AS TO CHANGES IN STREET NAMES AND POINTS OF INTEREST, NEW STREET ADDITIONS OF ABANDONMENTS OF EXISTING STREETS AND THE MAPS RETURNED TO THE PUBLISHERS.

### 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 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 THIRTEEN STREETS COVERING SEVENTEEN 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 1.70 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 PLAN ACCOMPANYING THE PROFILE SHOWS DIVISION OF ESTATES, OWNERSHIP AND HOUSES.

STREET GRADING. ADJUTING 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 ADJUTING 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>
ALTHEA STREET	DEXTER STREET TO CRANSTON STREET	5479
ALUMNI AVENUE	HOPE STREET TO MORRIS AVENUE	2619
AMHERST STREET	BOWDOIN STREET TO ERASTUS STREET	6732
AMOS STREET	NORTH MAIN STREET TO CANAL STREET	175
ATLANTIC AVENUE	MELROSE STREET TO ELMWOOD AVENUE	2620
BASSWOOD AVENUE	MT. PLEASANT AVENUE TO SHEFFIELD AVENUE	3717
DEACON AVENUE	POINT STREET TO LOCKWOOD STREET	2245
BELLEVUE AVENUE	BUCKLIN STREET TO CRANSTON STREET	4598
BOWDOIN STREET	AMHERST STREET TO ATWELLS AVENUE	1254
BRIDGHAM STREET	WESTMINSTER STREET TO CARPENTER STREET	1023
CAMP STREET	ROCHAMDEAU AVENUE TO STENTON AVENUE	2983
CARPENTER STREET	KNIGHT STREET TO DEAN STREET	4485
CHAFFEE STREET	MANTON AVENUE TO APPLETON STREET	1538
CLARENCE STREET	WHITEHALL STREET TO TERRACE AVENUE	5369

CODDING STREET	WESTMINSTER STREET TO CRANSTON STREET	1916
CONGRESS AVENUE	BROAD STREET TO MELROSE STREET	5007
CRESTON WAY	SUMMIT AVENUE TO MEMORIAL ROAD	1532
DEXTERDALE ROAD	NORTH MAIN STREET TO SUMMIT AVENUE	4456
DODGE STREET	WESTMINSTER STREET TO CENTRAL STREET	4610
DORA STREET	TERRACE AVENUE TO CUMERFORD STREET	6906
EDGEHILL ROAD	NORTH MAIN STREET TO SUMMIT AVENUE	4832
ELMCREST AVENUE	MT. PLEASANT AVENUE TO CITY LINE	1715
FARRAGUT AVENUE	BROAD STREET TO ROGER WILLIAMS AVENUE	2434
FEDERAL STREET	BROADWAY TO DEAN STREET	2848
FEDERAL STREET	DE PASQUALE AVENUE TO KNIGHT STREET	3117
FLORENCE STREET	AMHERST STREET TO MANTON AVENUE	3396
FOREST STREET	HOPE STREET TO CAMP STREET	3780
HAMILTON STREET	PUBLIC STREET TO POTTERS AVENUE	1380
HILLHURST AVENUE	POCASSET AVENUE TO LAUREL HILL AVENUE	2285
HOOKE STREET	BASSWOOD AVENUE TO CITY LINE	861
HYAT STREET	MANTON AVENUE TO AMHERST STREET	2326
INDIANA AVENUE	EDDY STREET TO NARRAGANSETT BOULEVARD	5683
KOSSUTH STREET	POPE STREET TO BOWDOIN STREET	3312
LANDOR STREET	PEARL STREET TO LOCKWOOD STREET	1768
LANGHAM ROAD	IVY STREET TO HOPE STREET	1670
LEXINGTON AVENUE	MELROSE STREET TO ELMWOOD AVENUE	2837
MEMORIAL ROAD	SUMMIT AVENUE TO CAMP STREET	2112
MORGAN STREET	RUTHERGLEN AVENUE TO CITY LINE	752
NORTH COURT STREET	CANAL STREET TO BENEFIT STREET	742
PEACE STREET	BUCKLIN STREET TO DEXTER STREET	1042
PEMBROKE AVENUE	EATON STREET TO SMITH STREET	5617
PINEHURST AVENUE	EATON STREET TO SMITH STREET	4939
POND STREET	PEARL STREET TO STEWART STREET	8062
POPE STREET	MANTON AVENUE TO AMHERST STREET	1363
RUTHERGLEN AVENUE	NARRAGANSETT AVENUE TO PONTIAC STREET	7454
SOUTH COURT STREET	NORTH MAIN STREET TO CONGDON STREET	1336
STENTON AVENUE	NORTH MAIN STREET TO CAMP STREET	2327
THIRD STREET	NORTH MAIN STREET TO CRESTON WAY	2817
VEAZIE STREET	O'NEIL STREET TO BRANCH AVENUE	1790
VIOLA STREET	DORCHESTER AVENUE TO PLAINFIELD STREET	1537
WAVERLY STREET	DEXTER STREET TO SORRENTO STREET	7163
		<hr/> 157,561

# HIGHWAYS RECONSTRUCTED BY STATE DEPARTMENT OF PUBLIC WORKS

BY CAMPANELLA AND CARDI CONSTRUCTION COMPANY

<u>STREET</u>	<u>SQ. YDS.</u>	<u>TYPE</u>
ALLENS AVENUE, PUBLIC STREET TO POINT SOUTH OF THURBERS AVE.	21,041.0	SHEET ASPHALT
ELMWOOD AVENUE, TRINITY SQUARE TO COLUMBUS SQUARE	38,937.0	SHEET ASPHALT
RESERVOIR AVENUE, COLUMBUS SQUARE TO A POINT SOUTH OF PONTIAC STREET	26,147.0	SHEET ASPHALT

BY M.A. GAMMINO CONSTRUCTION COMPANY

DOUGLAS AVENUE, ORMS STREET TO EATON STREET	19,784.0	DITUMINOUS CONCRETE
TOTAL	105,909.0	
EO 8		

SPECIAL HIGHWAY CONSTRUCTION BY CITY OF PROVIDENCE UNDER CONTRACT

<u>STREET</u>	<u>SQ. YDS</u>	<u>TYPE</u>
EDDY STREET, BLACKSTONE STREET TO ERNEST STREET	21,776.0	SHEET ASPHALT
HARTFORD AVENUE, POINT NEAR OLNEYVILLE SQUARE TO WEST SIDE HEATH STREET	6,358.0	SHEET ASPHALT
POCASSET AVENUE, POINT NEAR PLAINFIELD STREET TO WEST SIDE WEBSTER AVENUE	<u>4,600.0</u>	SHEET ASPHALT
TOTAL	32,734.0	

PLANS AND SPECIFICATIONS, ENGINEERING FIELD WORK AND INSPECTION WERE FURNISHED FOR THE GRADING, CURBING, AND CONSTRUCTION OF THE FOLLOWING STREETS UNDER CONTRACT TO FANNING & DOORLEY CONSTRUCTION COMPANY.

<u>STREET</u>	<u>TYPE (BIT UMINOUS MACADAM)</u>	<u>SQ. YDS.</u>
ARGOL STREET	NELLIE STREET TO EDGEWORTH AVENUE	766
BEETLE STREET	SIGSON STREET TO A POINT WESTERLY	393
DANDY STREET	WINDMILL STREET TO TERMINATION	1424
FALES STREET	BRIDGHAM STREET TO ARCH STREET	420
LINDEN DRIVE	COLE AVENUE TO POINT EASTERLY	1377
RIDGE STREET	TOBEY STREET TO GROVE STREET	1090
VINCENT STREET	HUXLEY AVENUE TO TERMINATION	<u>623</u>
TOTAL		6,093

CONSTRUCTION WAS IN PROGRESS IN THE FOLLOWING STREETS ON SEPTEMBER 30, 1959

AINSWORTH STREET, DOUGLAS AVENUE TO CAXTON STREET

APPIAN STREET, NORTH LINE OF CORINA STREET WEST OF APPIAN STREET TO  
NORTH LINE OF CORINA STREET EAST OF APPIAN STREET

BINGHAM STREET, BRANCH AVENUE TO CAXTON STREET

CARDER STREET, CAXTON STREET TO NORTHERLY LINE OF BURTON STREET

CARLETON STREET, ATWELLS AVENUE TO NORTH LINE CHAUCER STREET

CAXTON STREET, EAST LINE OF CARDER STREET TO WEST LINE OF AINSWORTH STREET

CORINA STREET, EAST LINE OF APPIAN STREET TO GLASGOW STREET

ELIZA STREET, HARTFORD AVENUE TO NORTH LINE OF THORNTON STREET

GARIBOLDI AVENUE, LANGDON STREET TO STANHOPE STREET

GLASGOW STREET, CORINA STREET TO SALINA STREET

HOMEFIELD AVENUE, MT. PLEASANT AVENUE TO BASSWOOD AVENUE

JASTRAM STREET, WHITFORD AVENUE TO PLEASANT VALLEY PARKWAY

JOSA STREET, LANGDON STREET TO CITY LINE

JUSTICE STREET, ACADEMY AVENUE TO PLEASANT VALLEY PARKWAY

LADAN STREET, END OF CURBED PORTION TO PLAINFIELD STREET

LONGFELLOW TERRACE, LONGFELLOW STREET TO ROGER WILLIAMS AVENUE

LYNCH STREET, YALE AVENUE TO CHALKSTONE AVENUE

MANILA STREET, BURNS STREET TO CITY LINE

MAUDE STREET, SMITH STREET TO CONVENT STREET

MCMILLEN STREET, ASCHAM STREET TO PORTION BUILT

O'NEIL STREET, DOUGLAS AVENUE TO VEAZIE STREET

RADCLIFFE AVENUE, EATON STREET TO SMITH STREET

RIVERDALE STREET, MANTON AVENUE TO NORTHERLY TERMINATION



ROGER WILLIAMS AVENUE, ELMWOOD AVENUE TO MELROSE STREET  
 Sisson Street, Manton Avenue to Cloud Street  
 Smart Street, Argol Street to West Line Job Street  
 Thurston Street, Elmwood Avenue to Westerly Termination  
 Wadsworth Street, Sorrento Street to Expressway Service Road  
 Windmill Street, Portion Built to City Line

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>
CLOUD STREET, Sisson Street to Unit Street	AUG. 7, 1959	176
CORNWALL STREET, SOUTH LINE LONGMONT STREET TO NORTH LINE CHESHIRE STREET	AUG. 7, 1959	627
CRARY STREET, Allens Avenue to East Line Unnamed Street	DEC. 5, 1940	276
CURTIS STREET, Bosworth Street to Sheridan Street	AUG. 7, 1959	728
CUTLER STREET, Newark Street to Atwells Avenue	AUG. 7, 1952	206
DOROTHY AVENUE, Langdon Street to West Line Robin Street	MAY 10, 1956	520
ELLENFIELD STREET, East Line Virginia Avenue to Baker Street	AUG. 7, 1959	601
FREEDOM ROAD, Oakwood Avenue to Portion Received	AUG. 7, 1959	591
HARMONY DRIVE, POINT 200 FT SOUTH OF CHALKSTONE AVENUE TO FREEDOM ROAD	AUG. 7, 1959	295
JOY STREET, River Avenue to Westerly Termination	DEC. 5, 1954	400
LEHIGH STREET, Poe Street to Allens Avenue	APR. 8, 1955	478
POE STREET, Seymour Street to Lehigh Street	APR. 8, 1955	220
RICHLAND STREET, Edgemere Avenue to South Line Fairfield Avenue	AUG. 7, 1959	226
RIDGEWAY STREET, Manton Avenue to Point 234.2 FT. Easterly	AUG. 7, 1959	241
RUSSO STREET, Social Street to Paul Street	APR. 5, 1957	296
SAINT THOMAS STREET, Fruit Hill Avenue to Taranto Street	AUG. 7, 1959	322
TRAINOR STREET, Acorn Street to DePasquale Avenue	JUNE 20, 1935	249
UNNAMED PLANNED STREET, Crary Street to Globe Street	DEC. 5, 1940	117
TOTAL		6569

#### 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 HARTFORD AVENUE TO ELIZA STREET
JUNE 2, 1955	AUMOND STREET, FROM EDGEWOOD BLVD. TO CITY LINE
JULY 7, 1955	VESPUCCI STREET, FROM DOUGLAS AVENUE TO FERNANDO STREET
AUG. 4, 1955	POE STREET, FROM OXFORD STREET TO SEYMOUR 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
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 NIAN TIC AVENUE TO LAKEVIEW DRIVE
JUNE 7, 1956	MONTICELLO STREET, FROM OPPER STREET TO ROBIN BROOK SEWER
AUG. 2, 1956	LIDIA STREET, FROM FARMINGTON AVENUE TO ITS TERMINATION
SEPT. 6, 1956	MINNESOTA STREET, FROM WOODWARD ROAD TO ITS TERMINATION
OCT. 4, 1956	BERKSHIRE STREET, FROM SALINA STREET TO CORNWALL STREET
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

JUNE 6, 1957	POE STREET, FROM MUTUAL STREET TO OXFORD 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. 19, 1957	KING PHILIP STREET FROM BARBARA STREET TO GRIMWOOD STREET
APR. 7, 1958	PLEASANT VIEW AVENUE, FROM BURRINGTON STREET TO TERMINATION
MAY 1, 1958	YORK STREET, FROM NORTH MAIN STREET TO STEEL STREET
JUNE 5, 1958	NEWCOMB STREET, FROM DOGGESHALL STREET TO FORSYTH STREET
JULY 3, 1958	PROCTOR PLACE, FROM DOYLE AVENUE TO TERMINATION
AUG. 7, 1958	CASS STREET, FROM RUGBY STREET TO EDDY STREET
AUG. 7, 1958	PACIFIC AVENUE, FROM BARNABY STREET TO TERMINATION
AUG. 7, 1958	SEDAN STREET, FROM ARGOL STREET TO TERMINATION
SEPT. 4, 1958	CAKWOOD AVENUE, FROM FREEDOM ROAD TO 160 FEET SOUTH
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	ALDEN STREET, FROM SAMOSET AVENUE TO VICTORIA STREET
MAR. 5, 1959	SIDLEY 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
MAY 5, 1959	LONGWOOD AVENUE, FROM CITY LINE TO 106± FT. SOUTHERLY
MAY 5, 1959	REDWOOD DRIVE, FROM LONGWOOD AVENUE TO ROYAL AVENUE
MAY 5, 1959	ROYAL AVENUE FROM CITY LINE TO 100± FT. EASTERLY
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
SEPT. 3, 1959	ACKERMAN STREET, FROM NIAN TIC AVENUE TO EAST TERMINATION
SEPT. 3, 1959	BINNEY STREET, FROM NIAN TIC AVENUE TO EAST TERMINATION

#### PETITIONED FOR CURBING AND GRADING

<u>DATE</u>	<u>STREET AND LOCATION</u>
FEB. 17, 1955	OPHELIA STREET, FROM HARTFORD AVENUE TO ELIZA 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
JULY 7, 1955	VESPUCCI STREET, FROM DOUGLAS AVENUE TO FERNANDO STREET
JULY 7, 1955	HILLCREST AVENUE, FROM SOUTH LINE FREEDOM ROAD TO S. LINE CARVEL STREET
AUG. 4, 1955	POE STREET, FROM OXFORD STREET TO SEYMOUR STREET
SEPT. 1, 1955	QUEEN STREET, FROM LAUREL HILL AVE. TO ITS NORTHERLY TERMINATION
NOV. 3, 1955	HYMER STREET, FROM GRANDALL 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 NIAN TIC AVENUE TO LAKEVIEW DRIVE
AUG. 2, 1956	LIDIA STREET, FROM FARMINGTON AVENUE TO ITS TERMINATION
OCT. 4, 1956	BERKSHIRE STREET, FROM SALINA STREET TO CORNWALL STREET
NOV. 1, 1956	ACKERMAN STREET, FROM NIAN TIC AVENUE TO EASTERLY TERMINATION
NOV. 1, 1956	DUPONT STREET, FROM NIAN TIC AVENUE TO EASTERLY TERMINATION

NOV. 1, 1956 BINNEY STREET, FROM NIAN TIC AVENUE TO EASTERLY TERMINATION  
 NOV. 1, 1956 DAY STREET, FROM NIAN TIC AVENUE TO EASTERLY TERMINATION  
 NOV. 1, 1956 BINGHAM STREET, FROM BRANCH AVENUE TO DOUGLAS AVENUE  
 NOV. 15, 1956 BURTON STREET, FROM GINGHAM 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  
 JUNE 6, 1957 POE STREET, FROM MUTUAL STREET TO OXFORD STREET  
 JULY 11, 1957 HILLARD STREET, FROM MANTON AVENUE TO PELHAM STREET  
 JULY 11, 1957 COWPER COURT, FROM MESSER STREET TO TERMINATION  
 JULY 11, 1957 SMART STREET, FROM ARGOL STREET TO TERMINATION  
 AUG. 15, 1957 GROTO AVENUE, FROM UPTON AVENUE TO PORTION ALREADY RECIEVED  
 OCT. 3, 1957 DUKE STREET, FROM ORMS STREET TO SMITH STREET  
 DEC. 19, 1957 KING PHILIP STREET, FROM BARBARA STREET TO GRIMWOOD STREET  
 FEB. 20, 1958 CARVER COURT, FROM 53 PLEASANT STREET TO CARVER COURT  
 APR. 17, 1958 PLEASANT VIEW AVENUE, FROM BURRINGTON STREET TO TERMINATION  
 MAY 1, 1958 YORK STREET, FROM NORTH MAIN STREET TO STEELE STREET  
 JUNE 5, 1958 NEWCOMB STREET, FROM COGGESHALL STREET TO FORSYTH STREET  
 JULY 3, 1958 PROCTOR PLACE, FROM DOYLE AVENUE TO TERMINATION  
 AUG. 7, 1958 CASS STREET, FROM RUGBY STREET TO EDDY STREET  
 AUG. 7, 1958 PACIFIC AVENUE, FROM BARNABY SREET TO TERMINATION  
 SEPT. 4, 1958 OAKWOOD AVENUE, FROM FREEDOM ROAD TO 160 FEET SOUTH  
 SEPT. 4, 1958 YORKTOWN PLACE, FROM LINTON STREET TO TERMINATION  
 SEPT. 18, 1958 TAPPAN STREET, FROM HAWKINS STREET TO ADMIRAL STREET  
 NOV. 6, 1958 MYRA STREET, FROM KILLINGLY STREET TO BOUNDARY AVENUE  
 MAR. 5, 1959 ALDEN STREET, FROM SAMOSET AVENUE TO VICTORIA STREET  
 MAR. 5, 1959 SIDLEY STREET, FROM CRESCENT STREET TO WEST TERMINATION  
 APR. 16, 1959 STELLA STREET, FROM BARDARA STREET TO GRIMWOOD STREET  
 MAY 7, 1959 PACIFIC AVENUE, FROM AQUIDNECK STREET TO BECKWITH STREET  
 MAY 7, 1959 LONGWOOD AVENUE, FROM CITY LINE 106± FT. WEST  
 MAY 7, 1959 REDWOOD AVENUE, FROM LONGWOOD AVENUE TO ROYAL AVENUE  
 MAY 7, 1959 ROYAL AVENUE, FROM CITY LINE TO 100± FT. EAST  
 MAY 7, 1959 GRAFTON STREET, FROM METCALF STREET TO TERMINATION  
 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  
 JULY 2, 1959 PACIFIC AVENUE, FROM ACQUIDNECK STREET TO BECKWITH STREET

SUMMARY TO OCTOBER 1, 1959

THE FOLLOWING TABLE SHOWS TYPE OF PAVEMENT, LENGTHS AND AREAS:

<u>TYPES OF PAVEMENT</u>	<u>LENGTHS MILES</u>	<u>AREA SQUARE YARDS</u>
REINFORCED CONCRETE	0.17	3101.3
BITUMINOUS CONCRETE (CURBED)	119.22	2087057.3
BITUMINOUS CONCRETE (NOT CURBED)	5.82	102572.0
SHEET ASPHALT (CURBED)	67.09	1621762.9
SHEET ASPHALT (NOT CURBED)	0.30	4195.0
BITUMINOUS MACADAM (CURBED)	160.53	2453329.3
BITUMINOUS MACADAM (NOT CURBED)	3.12	50512.0
ASPHALT BLOCKS	0.14	1555.4
BRICK	0.02	197.2
COBBLE	0.24	1706.9
GRANITE BLOCKS	2.83	43910.3
WATERBOUND MACADAM (CURBED)	2.54	43195.0
WATERBOUND (NOT CURBED)	0.58	6237.0
	<u>362.60</u>	<u>6419331.6</u>
RECEIVED (NOT IMPROVED)	4.59	
TOTAL	<u>367.19</u>	

THE FOLLOWING WORK HAS BEEN COMPLETED DURING THE YEAR - NAMELY:

STREETS PAVED WITH NEW MATERIAL	82,190 LINEAR FEET
SHEET ASPHALT PAVEMENT LAID	118,859 SQUARE YARDS
BITUMINOUS CONCRETE PAVEMENT LAID	179,820 SQUARE YARDS
BITUMINOUS MACADAM PAVEMENT LAID	6,093 SQUARE YARDS

## SEWER AND STRUCTURAL SECTION

THE DUTIES OF THIS SECTION CONSIST 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 PARTIAL PAYMENTS AND 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 PLATTED 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 EDWARD F. CAPALDI INC., DATED MAY 6, 1958 WAS COMPLETED. FINAL COST EQUALED \$160,716.37 AND THE STREETS INVOLVED AND THE COMPLETION DATES ARE AS FOLLOWS:

### COMPLETION DATES

JUNE 19, 1958	CARDER STREET FROM NEAR BURTON STREET TO CAXTON STREET AND IN CAXTON STREET FROM CARDER STREET TO AINSWORTH STREET AND IN AINSWORTH STREET FROM CAXTON STREET TO DOUGLAS AVENUE.
AUG. 7, 1958	ST. THOMAS STREET FROM NEAR TARANTA STREET TO FRUIT HILL AVENUE.
DEC. 24, 1958	RIVERDALE STREET FROM ITS WESTERLY TERMINATION TO MANTON AVENUE.
DEC. 26, 1958	RUSHMORE AVENUE FROM NEAR ALMIRA STREET TO ADA AVENUE.
JULY 9, 1958	THURSTON STREET FROM ITS WESTERLY TERMINATION TO ELMWOOD AVENUE.
AUG. 4, 1958	CURTIS STREET FROM SHERIDAN STREET TO BOSWORTH STREET.
JUNE 12, 1958	GARIBALDI AVENUE AND RT. OF WAY FROM NEAR LANGDON STREET TO CANADA POND. TRUNK SEWER.
JUNE 13, 1958	GLASGOW STREET, FROM APPROXIMATELY 230 FT. SOUTH OF HAWKINS STREET TO HAWKINS STREET.
NOV. 24, 1958	MIDDLETON STREET FROM NEAR BARBARA STREET TO GRIMWOOD STREET AND IN GRIMWOOD STREET FROM MIDDLETON STREET TO STELLA STREET.
AUG. 8, 1958	OAKWOOD AVENUE FROM APPROXIMATELY 130 FT. SOUTH OF FREEDOM ROAD TO PRESENT SEWER IN OAKWOOD AVENUE.
JULY 2, 1958	OPHELIA STREET, FROM NEAR BURCHARD STREET TO EUGENE STREET.
JUNE 20, 1958	SMART STREET, FROM JOB STREET TO ARGOL STREET.
OCT. 22, 1958	HAGAN STREET, FROM NEAR LANGDON STREET TO ROBIN BROOK SEWER.
OCT. 8, 1958	HUXLEY AVENUE, FROM NEAR VENTURA STREET TO EATON STREET.
OCT. 8, 1958	HUXLEY AVENUE, FROM APPROXIMATELY 400 FT. NORTH OF VENTURA STREET AND IN VENTURA STREET FROM HUXLEY AVENUE TO PRESENT SEWER IN VENTURA STREET.
AUG. 11, 1958	REGENT AVENUE, FROM ITS EASTERLY TERMINATION TO LISBON STREET.
OCT. 22, 1958	RIDGEWAY AVENUE, FROM APPROXIMATELY 230 FT. EAST OF MANTON AVENUE TO MANTON AVENUE.
SEPT. 30, 1958	ROGER WILLIAMS AVENUE, FROM NEAR ELMWOOD AVENUE TO MELROSE STREET.

IN CONNECTION WITH THE JOSLIN STREET SCHOOL CONSTRUCTION A SECTION OF THE JOSLIN STREET SEWER WAS ABANDONED AND REPLACED BY AN ALTERNATE 12-INCH SEWER TO BE BUILT IN KOSSUTH STREET FROM JOSLIN STREET TO HYAT STREET. THIS WORK WAS INCLUDED IN THE GENERAL CONTRACT AND WAS DONE BY THE A.C. BEALS COMPANY. WORK STARTED IN SEPTEMBER 1958 AND WAS COVERED BY APPROVAL AND INSPECTION BY THIS OFFICE FOR COMPLIANCE WITH CITY STANDARDS. WORK WAS COMPLETED OCTOBER 29, 1958.

A CONTRACT FOR SEWERS IN VARIOUS STREETS BY D'ERCOLE CONSTRUCTION CO. INC. DATED MAY 25, 1959 IS NOW IN CONSTRUCTION. THE STREETS INVOLVED ARE AS FOLLOWS WITH THE COMPLETION DATES NOTED. ESTIMATED VALUE OF THE WORK DONE TO DATE EQUALS \$81,289.25. TOTAL CONTRACT WORK WILL APPROXIMATE \$86,000.

<u>COMPLETION DATES</u>	<u>DESCRIPTION</u>
NOT COMPLETED	NEWCOMB STREET, FROM NEAR FORSYTH STREET TO COGGESHALL STREET
AUG. 10, 1959	PLEASANT VIEW AVENUE, FROM NEAR PACIFIC AVENUE TO BURRINGTON STREET
JUNE 23, 1959	RUSSO STREET, FROM NEAR SOCIAL STREET TO PAUL STREET
SEPT. 16, 1959	CASS STREET, FROM NEAR RUGBY STREET TO EDDY STREET
JUNE 26, 1959	NAHANT STREET, FROM NEAR RUSSO STREET TO OPPER STREET
SEPT. 29, 1959	SMART STREET, FROM APPROXIMATELY 200 FEET WEST OF JOB STREET TO JOB ST.
SEPT. 25, 1959	SYBARIS STREET, FROM NEAR RUSHMORE AVENUE TO SISSON STREET
AUG. 20, 1959	AMITY STREET, FROM NEAR PEMBERTON STREET TO ACADEMY AVENUE
JULY 16, 1959	ATWOOD STREET, FROM NEAR WALLACE STREET TO UNION AVENUE
JULY 1, 1959	WARDLAW AVENUE, FROM NEAR RIVER AVENUE TO STONELAW AVENUE
SEPT. 22, 1959	ALDEN STREET, FROM NEAR SAMOSET AVENUE TO VICTORIA STREET
NOT COMPLETED	DEERFIELD TERRACE, FROM ITS WESTERLY TERMINATION TO ALGER AVENUE

TWO PRESENT STORM SEWERS DISCHARGING INTO THE MANTON AVENUE RUBBISH DUMP WERE JOINED AND EXTENDED WITH A SINGLE 27-INCH VITRIFIED CLAY PIPE SEWER ABOUT 60 FEET IN LENGTH BY THE SEWER MAINTENANCE SECTION IN THE MONTH OF NOVEMBER 1958.

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, 1959, 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, 1949 TO SEPTEMBER 30, 1959:

FEB. 2, 1950	EDNA STREET, FROM PLAINFIELD STREET TO HARTFORD AVENUE
FEB. 16, 1950	ROWLEY STREET, FROM BATTERSON STREET TO SICILY STREET
AUG. 10, 1950	DERRY STREET, FROM GEOFFREYS COURT TO OREGON STREET
APR. 5, 1951	BRUSH HILL ROAD, FROM ADA AVENUE TO CHALKSTONE AVENUE
APRIL 19, 1951	MESSINGER STREET, FROM ATWELLS AVENUE TO SPRUCE STREET
MAY 3, 1951	BENEDICT STREET, FROM CRANSTON STREET TO HUNTINGTON AVENUE
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 POWHATAN 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	HYMER 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  
 MAY 3, 1956 WESTMORE STREET, FROM NIAN TIC AVENUE TO LAKEVIEW DRIVE  
 AUG. 2, 1956 LIBIA STREET, FROM THE CITY LINE TO FARMINGTON AVENUE  
 NOV. 1, 1956 (AKERMAN STREET, FROM NIAN TIC AVENUE, NORTHERLY)  
                  (DUPONT STREET, FROM NIAN TIC AVENUE, NORTHERLY)  
                  (BINNEY STREET, FROM NIAN TIC AVENUE, NORTHERLY)  
                  (DAY STREET, FROM NIAN TIC AVENUE, NORTHERLY )  
 NOV. 1, 1956 SWAN STREET, FROM EDDY STREET TO POE STREET  
 FEB. 7, 1957 MARIA STREET, FROM KILLINGLY STREET TO THE CITY LINE  
 JUNE 6, 1957 COWPER COURT, FROM ITS TERMINATION TO MESSER STREET  
 MAY 15, 1958 HILLCREST AVENUE, FROM NEAR FREEDOM ROAD TO ADA AVENUE AND IN ADA  
                  AVENUE FROM HILLCREST AVENUE TO PRESENT SEWER IN ADA AVENUE  
 JUNE 5, 1958 YORK STREET, FROM ITS EASTERLY TERMINATION TO NORTH MAIN STREET  
 SEPT. 4, 1958 YORKTOWN PLACE, FROM ITS TERMINATION TO LINTON STREET  
 JULY 2, 1959 PACIFIC AVENUE, FROM DECKWITH STREET TO AQUIDNECK STREET  
 JULY 2, 1959 HENNESSEY STREET, FROM BULLOCK AVENUE TO ST. THOMAS STREET  
 JULY 2, 1959 ROWLEY STREET, FROM BATTERSON STREET TO HENNESSEY STREET  
 AUG. 6, 1959 COMO STREET, FROM ITS NORTHERLY TERMINATION TO LEDGE STREET

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, 1959 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 THE RIVERS, WERE CONSTRUCTED IN THESE AREAS BETWEEN THE YEARS 1871 AND 1890 TO A TOTAL LENGTH OF 62.7 MILES.

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 INTERCEPTING SEWERS, DESIGNED FOR THE COLLECTION OF SEWAGE FLOW FROM THE OLDER SEWERS WHICH HERETOFORE DISCHARGED INTO THE 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, 1959 50.7439 MILES.

IN 1872 THE FIRST STORM SEWER CONSTRUCTION WAS STARTED AND AS OF SEPTEMBER 30, 1959 A TOTAL OF 86.0814 MILES OF SEWERS FOR STORM WATER ONLY, HAVE BEEN CONSTRUCTED AND DISCHARGED INTO THE NEAREST AVAILABLE POND OR STREAM.

THE TOTAL LENGTH OF THE SO-CALLED REGULAR COMBINED SEWERS AS OF SEPTEMBER 30, 1959 EQUALS 323.7018 MILES.

THE TOTAL LENGTH OF ALL TYPES AND SIZES OF SEWERS MAINTAINED BY THE SEWER DIVISION OF THE PUBLIC WORKS DEPARTMENT AS OF SEPTEMBER 30, 1959 EQUALS 460.5271 MILES.

INCLUDED IN THIS MILEAGE ARE APPROXIMATELY 20,000 MANHOLES, ALSO THERE ARE APPROXIMATELY 4600 INLETS AND 11,770 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 DRAINS 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 THE SEWAGE FLOWS BY GRAVITY TO THE LARGE PUMPING STATION AT ERNEST STREET. (SEE DESCRIPTION OF PUMPING STATION ELSEWHERE). 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. (SEE DESCRIPTION OF THE SEWAGE DISPOSAL PLANT ELSEWHERE).

THE SEWAGE PUMPING STATION (ERNEST STREET) FROM AUGUST 1938 TO JANUARY 1941 THE SEWAGE PUMPING STATION WAS MODERNIZED BY CHANGING FROM STEAM DRIVEN PUMPS TO ELECTRICALLY DRIVEN PUMPS AND PROVIDED AN OUTLET FOR SURPLUS ELECTRICAL POWER GENERATED AT THE CITY OF PROVIDENCE INCINERATOR AT FIELDS POINT. THE NEW PUMPS ARE CAPABLE OF PUMPING A TOTAL OF 200 MILLION GALLONS OF SEWAGE DAILY AND OPERATE WITH 2300 VOLT, 60 CYCLE, ALTERNATING CURRENT MOTORS.

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.

RECEIVED FROM CRANSTON. (NARRAGANSETT BREWING COMPANY) CONTRACT DATED JUNE 1, 1955 - TERMS \$57.00 PER MILLION GALLONS 104,161,700 GALLONS METERED AND BILLED FOR \$5937.22.

RECEIVED FROM JOHNSTON. CONTRACT DATED MARCH 9, 1956 - TERMS \$57.00 PER MILLION GALLONS, 202,060,900 GALLONS, METERED, ESTIMATED AND BILLED FOR \$11,563.07

RECEIVED FROM NORTH PROVIDENCE. FLOW MEASURED AND COMPUTED TO EQUAL 2,826,304,500 GALLONS. OLD CONTRACT DATED DECEMBER 4, 1939 TERMS \$20,000 ANNUALLY. NEW CONTRACT DATED SEPTEMBER 8, 1959 TERMS \$50,000 ANNUALLY.

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 SEARCHERS, 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 JOURNEYMEN 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 THE 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 1959 THE DIRECTOR OF PUBLIC WORKS ISSUED LICENSES TO NINE 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 EQUIPMENT:

<u>BIDS SUBMITTED</u>	<u>DESCRIPTIONS</u>	<u>ORDERED BY</u>
OCT. 7, 1958	TWELVE SNOW PLOWS	HIGHWAY SECTION
NOV. 5, 1958	ONE MECHANICAL LEAF COLLECTOR	HIGHWAY SECTION
NOV. 5, 1958	ONE FORK LIFT TRUCK	HIGHWAY SECTION
NOV. 12, 1958	TWO SNOW LOADERS	HIGHWAY SECTION
NOV. 12, 1958	ONE ROAD GRADER	HIGHWAY SECTION
NOV. 12, 1958	ONE 4-DOOR SEDAN	ENGINEERING OFFICE
DEC. 9, 1958	ONE FRONT END LOADER	HIGHWAY SECTION
DEC. 29, 1958	ONE 4-DOOR SEDAN	SEWER SECTION
DEC. 29, 1958	ONE 30000# DUMP TRUCK	SEWER SECTION
MAR. 3, 1959	SIX GARBAGE TRUCKS	SANITATION SECTION
MAY 19, 1959	ONE STAKE PLATFORM TRUCK AND CRANE	HIGHWAY SECTION
JUNE 2, 1959	ONE STREET SWEEPER	HIGHWAY SECTION

IN CONNECTION WITH THE PROPOSED SEWAGE FLOW FROM THE TOWN OF JOHNSTON, HALEY AND WARD ENGINEERS, BOSTON, MASS. AND THE V.F. CAPALDI CONSTRUCTION CO. ARE WORKING ON THE PROPOSED FIVE CONNECTIONS TO THE PROVIDENCE SEWER SYSTEM. FINAL PLANS WERE APPROVED JULY 30, 1957 AND PERIODICAL INSPECTION TRIPS WERE MADE ON THIS WORK IN PROVIDENCE AND FINAL INSPECTIONS FOR APPROVAL WERE MADE BY THE SEWER MAINTENANCE SECTION. THE FOLLOWING DATA IS SUBMITTED:

<u>LOCATION</u>	<u>SIZE</u>	<u>COMPLETION DATE OF CONNECTION</u>
MANTON AVENUE	16 INCH WITH METER	JANUARY 22, 1957
SILVER LAKE AVENUE	15 INCH WITH METER	AUGUST 1, 1958
HARTFORD AVENUE	8 INCH NOT METERED	APRIL 15, 1957
PAOLINO STREET	8 INCH NOT METERED	AUGUST 1, 1959
SUNSET AVENUE	8 INCH NOT METERED	NOT CONNECTED

IN REGARD TO A CONTRACT WITH THE CAMPANELLA & CARDI CONSTRUCTION CO. FOR THE "SUPPORTING FACILITIES TO THE WEST RIVER REDEVELOPMENT PROJECT" NO. U.R.R.1.1-6 PLANS AND SPECIFICATIONS WERE DRAWN UP BY CHARLES A. MAGUIRE AND ASSOCIATES. OUR OFFICE COVERED THE FIELD INSPECTION AND SUPERVISION AND COMPUTED THE MONTHLY PAYMENTS TO THE CONTRACTOR. THE CONTRACT WAS DATED MAY 19, 1958 IN THE AMOUNT OF \$197,545.00.

THIS WORK WAS COMPLETED JULY 24, 1959 AND THE TOTAL PAYMENT FOR THE WORK EQUALLED \$187,423.00.

IN REGARD TO THE CONTRACT WITH THE M.A. GAMMINO CONSTRUCTION CO. DATED JULY 8, 1959 FOR "CONSTRUCTION OF RAIL FACILITIES AT THE WEST RIVER INDUSTRIAL PARK" IN THE AMOUNT OF \$54,500.00, THIS OFFICE CHECKED OVER PLANS FOR THE TRACKS AND A BRIDGE AND COVERED THE INSPECTION OF THE WORK IN THE FIELD. WORK STARTED JULY 9, 1959 AND IS NOW IN PROGRESS. THE ESTIMATED VALUE OF THE WORK TO DATE EQUALS \$20,295.00.

MANY CONFERENCES WERE HELD WITH ENGINEERS, MAKING SPECIAL STUDIES FOR FLOOD CONTROLS, IN CONNECTION WITH THE PROPOSED FOX POINT DAM.

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.

CHECKED OVER DRAINAGE AND SEWER PLANS FOR THE HUNTINGTON EXPRESSWAY AND FOR THE PROVIDENCE FREEWAY - PHASE 3. THE CONSTRUCTION WORK ON THE HUNTINGTON EXPRESSWAY IS STARTED AND THE ONLY CONSTRUCTION WE COVER IS THE SEWER INSPECTION. THE PROVIDENCE FREEWAY - PHASE 3 CONSTRUCTION HAS NOT STARTED.

IN REGARD TO THE PROPOSED "PUBLIC WORKS HIGHWAY OFFICE BUILDING AND GARAGE" A "PRESENT UTILITIES" PLAN WAS MADE BY THIS OFFICE FOR THE ARCHITECTS "CREER, KENT, CRUISE & ALDRICH" ON OCTOBER 30, 1958. A CONTRACT FOR THE CONSTRUCTION OF THE BUILDING WAS AWARDED TO JOSEPH P. FLYNN (DATED MAY 18, 1959) AND THE MAYOR BROKE GROUND ON JUNE 4, 1959. THE CONTRACT AWARD WAS IN THE AMOUNT OF \$702,422.00 AND AS OF OCTOBER 19, 1959 THE ESTIMATED VALUE OF THE WORK COMPLETED EQUALLED \$83,439.40. THIS OFFICE IS APPROVING ALL CONSTRUCTION PLANS AND IS COVERING THE ENGINEERING AND INSPECTION WORK REQUIRED IN THE FIELD.

AT MUNICIPAL WHARF, DREDGING IN THE AMOUNT OF APPROXIMATELY 1600 CU. YDS. WAS DONE UNDER OUR SUPERVISION AND INSPECTION WITH THE AID OF A CRANE AND BUCKET RENTED FROM THE FANNING & DOORLEY CO., AND THREE CITY HIGHWAY DUMP TRUCKS. WORK WAS STARTED NOVEMBER 17, 1958 AND COMPLETED ON NOVEMBER 20, 1958. COST OF RENTED EQUIPMENT, 32 HRS. @ \$20.00 PER HR. EQUALLED \$640.00 PAID TO FANNING & DOORLEY.

AT MUNICIPAL WHARF A PLAN SUBMITTED BY THE A & P COMPANY ON JUNE 2, 1959 FOR ALTERATIONS TO THE ROADWAY AND SEWERS AT THE WESTERLY END OF THE LEASED PORTION OF THE TRANSFER SHED #2, WAS RETURNED FOR CORRECTION. WORK ON SEWERS STARTED SEPTEMBER 15, 1959 - CONTRACTOR CAMPANELLA & CARDI CO., AND THE SEWER WORK IS BEING SUPERVISED BY THIS OFFICE.

AT MUNICIPAL WHARF A PERMIT WAS GRANTED BY THE U.S. ARMY ENGINEER DIVISION AND ALSO BY THE STATE OF RHODE ISLAND TO CONSTRUCT AND MAINTAIN A SAND AND GRAVEL DIKE IN PROVIDENCE (HARDOR) RIVER BASED ON OUR PLAN DATED FEBRUARY 26, 1959 AND REVISED MAY 8, 1959 - PERMIT IS DATED JULY 6, 1959 AND IF WORK IS NOT COMPLETED BEFORE DECEMBER 31, 1962 THE PERMIT BECOMES NULL AND VOID.

STUDIES WERE MADE AND PLANS DRAWN FOR THE LICENSING OF NEWSPAPER STANDS ON THE SIDEWALKS OF THE DOWN TOWN AREAS FOR USE BY MR. MCELROY, DIRECTOR OF PUBLIC WORKS. THIS WAS COMPLETED APRIL 15, 1959. PERMIT FORMS WERE MADE UP AND THE SYSTEM IS NOW OPERATING AND IS UNDER THE JURISDICTION OF THE BUSINESS MANAGER.

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.

RECOMMENDATIONS: AGAIN IT IS RESPECTFULLY SUGGESTED THAT THIS DEPARTMENT HAS ENOUGH CLERICAL AND STENOGRAPHIC WORK TO WARRANT THE ASSIGNMENT OF A FULL TIME STENOGRAPHER TO THIS OFFICE.

RESPECTFULLY SUBMITTED,

GILBERT SMALL  
CHIEF OF THE ENGINEERING OFFICE.

CONSTRUCTION AND MAINTENANCE DIVISION

MR. CHARLES F. McELROY,  
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, 1959. 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	\$7,008.92
ITEM 1 SERVICES OTHER THAN PERSONAL	1,177.20
ITEM 2 MATERIALS AND SUPPLIES	—
TOTAL	<u>\$8,986.12</u>

HIGHWAY SECTION

THE MAIN DUTY OF THIS SECTION IS THE MAINTENANCE OF APPROXIMATELY 340 MILES OF PAVED STREETS, INCLUDING THE REPAIRING, PATCHING, SEALCOATING, SURFACING, RESURFACING 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.

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$701,647.00
ITEM 1 SERVICES OTHER THAN PERSONAL	140,268.30
ITEM 2 MATERIALS AND SUPPLIES	<u>113,722.17</u>
TOTAL	<u>\$955,637.47</u>

REVENUE: \$22,323.24

STREETS REPAIRED AND SURFACED OR RESURFACED

<u>STREET</u>	<u>FROM</u>	<u>TO</u>
THIRD STREET	NORTH MAIN	CRESTON WAY
SOUTH COURT STREET	NORTH MAIN	CONGDON
MEMORIAL ROAD	SUMMIT AVENUE	CAMP
NORTH COURT STREET	CANAL	BENEFIT
CRESTON WAY	SUMMIT AVENUE	(OPP.) MEMORIAL ROAD
CONGRESS AVENUE	BROAD	MELROSE
BELLEVUE AVENUE	BUCKLIN	CRANSTON STREET
HAMILTON STREET	PUBLIC	POTTERS AVENUE
LEXINGTON AVENUE	MELROSE	ELMWOOD AVENUE
BEACON AVENUE	POINT	LOCKWOOD
WAVERLY STREET	BUCKLIN	SORRENTO
ALTHEA STREET	DEXTER	CRANSTON
FARRAGUT AVENUE	BROAD	RODER WILLIAMS PARK
PEACE STREET	BUCKLIN	DEXTER
LANGHAM ROAD	IVY	HOPE
CAMP STREET	ROCHAMBEAU	STENTON
LANDOR STREET	PEARL	LOCKWOOD
ATLANTIC AVENUE	MELROSE	ELMWOOD
INDIANA AVENUE	EDDY	ALLENS
ALUMNI AVENUE	HOPE	MORRIS
RUTHERGLEN STREET	NARRAGANSETT BLVD.	PONTIAC
FOREST STREET	HOPE	CAMP
CODDING STREET	WESTMINSTER	CRANSTON
DODGE STREET	WESTMINSTER	CENTRAL
CLARENCE STREET	WHITEHALL	LAUREL HILL
DORA STREET	TERRACE	CUMERFORD
POND STREET	PEARL	STEWART
AMHERST STREET	BOWDOIN	ERASTUS
MORGAN STREET	RUTHERGLEN	CITY LINE
BOWDOIN STREET	AMHERST	ATWELLS
BRIDGHAM STREET	WESTMINSTER	CARPENTER
CARPENTER STREET	KNIGHT	DEAN
FEDERAL STREET	KNIGHT	DEPASQUALE
FEDERAL STREET	DEAN	BROADWAY
FLORENCE STREET	AMHERST	MANTON
SUNDURY STREET	GLOUCESTER	RIVER
VEAZIE STREET	O'NEIL	BRANCH
PEMBROKE AVENUE	EATON	SMITH
POPE STREET	MANTON	AMHERST
KOSSUTH STREET	POPE	BOWDOIN
MONTCALM COURT	SPRING	WINTER
VIOLA STREET	DORCHESTER	PLAINFIELD
HYAT STREET	KOSSUTH	MANTON
CHAFFEE	MANTON	APPLETON
HILLHURST AVENUE	POCASSET	LAUREL HILL

STREETS STARTED 1957-1958; COMPLETED 1958-1959

PINEHURST AVENUE	EATON	SMITH
AMOS STREET	SOUTH MAIN	CANAL
EDGEHILL ROAD	SUMMIT	NORTH MAIN

STENTON AVENUE  
ELMCREST AVENUE  
BASSWOOD AVENUE  
HOOKER STREET  
DEXTERDALE ROAD

NORTH MAIN  
MT. PLEASANT  
MT. PLEASANT  
ELMCREST  
SUMMIT

CAMP  
NORTH PROVIDENCE LINE  
HOOKER  
BASSWOOD  
NORTH MAIN

STREETS STARTED 1958-1959; INCOMPLETE SEPTEMBER 30, 1959

HOMEFIELD AVENUE  
SISSON STREET  
JUSTICE STREET  
LYNCH STREET  
RADCLIFFE AVENUE  
CARLETON STREET  
O'NEIL STREET

MT. PLEASANT  
MANTON  
ACADEMY  
VALE  
EATON  
ATWELLS  
DOUGLAS

BASSWOOD  
CLOUD  
PLEASANT VALLEY PARKWAY  
CHALKSTONE  
SMITH  
CHAUCER  
VEAZIE

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 MIX CONCRETE	95.5 CU.YDS.	CRUSHED STONE	112 TONS
A.C. MIX	885.23 TONS	KEROSENE	940 GALS.
HOT PATCH	630 TONS	SAND	312 TONS
	GRAVEL 1½"	100 TONS	

MATERIALS USED ON SURFACING AND RESURFACING WERE AS FOLLOWS:

A.C.MIX	20,637.39	TONS
CEMENT	230	BAGS
CRUSHED STONE 2"	300	TONS
KEROSENE	9,060	GALS.
SAND	651	TONS

MATERIALS USED IN REPAIRING SIDEWALKS DUE TO DAMAGE CAUSED BY REMOVING TREES WITH DUTCH ELM DISEASE WERE AS FOLLOWS:

CEMENT	1180	BAGS
GRAVEL 1½"	400	TONS
SAND	504	TONS
A.C.MIX	200.15	TONS

DRIVEWAYS AND CURBING

DRIVEWAYS ALTERED	2	2' CIRCULAR CORNERS SET	418
DRIVEWAYS CONSTRUCTED	276	S.B. CORNERS SET	131
DRIVEWAYS WIDENED	28	7" CURB SET	90 FT.
DRIVEWAYS CLOSED	19	CURB SET AND RESET	4,371 FT.
DRIVEWAYS RELOCATED	9	170 FT. RADIUS	163 FT.

## MISCELLANEOUS WORK

FOLLOWING IS A LIST OF DIVISIONS AND OTHER DEPARTMENTS OR AGENCIES FOR WHICH THE HIGHWAY SECTION HAS PERFORMED SERVICES DURING THE PAST YEAR, AND A LIST OF JOBS PERFORMED:

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 AND FIRE DEPARTMENT, CHAPIN HOSPITAL, RHODE ISLAND HOSPITAL, MUNICIPAL GARAGE AND TRAFFIC ENGINEERING.

1. GRADING BASEBALL FIELDS AT THE FOLLOWING GROUNDS: CYPRESS ST. PLAYGROUND, FOX POINT PLAYGROUND, RICHARDSON ST. PLAYGROUND, VALLEY ST. PLAYGROUND, LAUREL HILL PLAYGROUNDS, DEXTER TRAINING GROUNDS, NEUTACONKANUT PARK, HOPKINS PARK, JOSEPH WILLIAMS FIELD, MT. PLEASANT PARK, BUCKLIN ST. PLAYGROUND, VEAZIE ST. PLAYGROUND, ROGER WILLIAMS PARK, ASCHAM PARK, MT. PLEASANT HIGH SCHOOL FIELD, PROVIDENCE GAS COMPANY FIELD, DAVIS PARK, QUAD ST. PLAYGROUND, GARIBALDO PLAYGROUND, RIDGE ST. PLAYGROUND, MUNICIPAL GOLF COURSE, AND HAWKINS STREET FIELD.
2. REPAIRING ROADS AT MUNICIPAL DOCK AND HAULING FILL FOR GANO STREET, FIELDS POINT, AND MANTON AVENUE DUMPS.
3. GRADED DUMPS AT FIELDS POINT, GANO STREET, MOUNT PLEASANT AVENUE, SMITH STREET AND MANTON AVENUE.
4. REBUILT ROAD IN ROGER WILLIAMS PARK.
5. ERECTED AND REMOVED BANDSTANDS FOR COLUMBUS DAY, ARMISTICE DAY, MEMORIAL DAY AND LABOR DAY CELEBRATIONS; ALSO FOR VARIOUS VETERANS AND CIVIC ORGANIZATIONS FOR DEDICATIONS AND MEMORIALS.
6. DECORATED CITY OF PROVIDENCE FOR CHRISTMAS AND FOURTH OF JULY CELEBRATIONS.
7. SET UP AND REMOVED EQUIPMENT AT THE VARIOUS VOTING PLACES IN THE CITY FOR THE BOARD OF CANVASSERS.
8. REMOVED RUDDISH FROM CITY HALL.
9. WORKED ON THE REMOVAL OF LARGE SAND HILL ON LAND LEASED BY SUN OIL CO. AT FIELDS POINT.
10. MOVED AND PUT IN STORAGE THE PERSONAL BELONGINGS AND FURNITURE OF MANY FAMILIES EVICTED BY THE COURTS AND BEING HELPED BY THE WELFARE DEPARTMENT.
11. SURFACED OFF STREET PARKING AREA REAR OLD HOPE ST. HIGH SCHOOL - ALUMNI AVENUE.
12. FILLED AND REBUILT UNDERMINED SIDEWALK ON SHIP STREET AT RICHMOND STREET.
13. REBUILT PAVEMENT AT INTERSECTION - HARRIS AVENUE AND ACORN STREET.
14. REPAIRED OPENING CAUSED BY WATER BREAK IN EAST RIVER STREET IN CONJUNCTION WITH WATER DEPARTMENT.
15. REPAIRED PAVEMENT OVER SEWER TRENCH - HUXLEY AVENUE.
16. CLOSED SAFETY ISLAND PASSAGES IN GEORGE M. COHAN BLVD. AT IVES STREET.

### LAWNS AND GRASS PLATS

COHAN BOULEVARD  
OAKLAND AVENUE  
KINSLEY AVENUE  
NORTH MAIN STREET  
FRANKLIN SQUARE  
ELMGROVE AVENUE  
CHAD BROWN STREET  
ATWELLS AVENUE

EIGHTH STREET AND LORIMER AVENUE  
SLATER AVE. AND GOLDSMITH STREET  
SEWER DISPOSAL GROUNDS  
EDDY AND SHIP STREETS  
MARKET SQUARE  
CEMETERY STREET  
PITMAN STREET  
GOVERNOR 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	\$43,370.56
ITEM 1 SERVICES OTHER THAN PERSONAL	3,255.65
ITEM 2 MATERIALS AND SUPPLIES	<u>6,161.14</u>
TOTAL	\$52,787.35

THERE ARE 57 CITY-OWNED BRIDGES, OF WHICH THE FOLLOWING 18 REQUIRED WORK THIS YEAR:

ACORN STREET BRIDGE	MERINO BRIDGE (GLENBRIDGE AVE.)
HARRIS AVE. OVERPASS	MERINO PARK FOOTBRIDGE
FRANCIS STREET BRIDGE	POST OFFICE BRIDGE
GASPEE STREET BRIDGE	BURNSIDE BRIDGE
PLAINFIELD STREET OVERPASS	NASH LANE BRIDGE (PETTIS ST.)
MAGNOLIA STREET OVERPASS	PARK STREET BRIDGE
POINT STREET BRIDGE	RED BRIDGE
ROGER WILLIAMS AVE. BRIDGE	POINT STREET VIADUCT
DELAINE STREET BRIDGE	CEMETERY BRIDGE

THE FOLLOWING WORK WAS ALSO DONE:

1. REPAIRED SIDEWALKS ON THE FOLLOWING BRIDGES: RED, POINT, GLENBRIDGE AVE., ROGER WILLIAMS AVE., PARK ST., LIVINGSTONE ST., ACORN ST. AND DELAINE ST.
2. REPAIRED ROADWAYS ON ACORN STREET, LIVINGSTONE STREET AND PARK STREET BRIDGES.
3. REPAIRED LELAND STREET, MERINO PARK AND ADELAIDE AVENUE FOOTBRIDGES.
4. CAULKED AND PAINTED BOATS FOR RED BRIDGE AND BRIDGE MAINTENANCE SECTION.
5. MOVED HARBORMASTER'S EQUIPMENT TO DOCK OFFICE BUILDING, FIELDS POINT.
6. REPAIRED BREAK IN FENCE ON GLENBRIDGE AVENUE. BRIDGE WAS DAMAGED BY AN AUTOMOBILE.
7. REPAIRED BREAKS IN FENCES ON BOTH KINSLEY AVENUE AND PROMENADE STREET, DAMAGED BY AN AUTOMOBILE.
8. REBUILT FENCE ACROSS POND AT NEW DUMP - MANTON AVENUE.
9. REPAIRED STOVE AND DOORS TO OPERATING HOUSE AT RED BRIDGE.



10. REPAIRED SIDE FENCES AND EXPANSION JOINT ON FRANCIS STREET BRIDGE; AND ALSO PAINTED BRIDGE.
11. REPAIRED FENCE ALONG RAILROAD ON WEST EXCHANGE STREET BETWEEN ATWELLS AVENUE AND ACORN STREET.
12. REPAIRED PLANK ROADWAYS IN BOTH PARK STREET AND ACORN STREET BRIDGES DAMAGED BY FIREMEN IN CHOPPING OUT BURNING WOOD.
13. REPAIRED TWO STEEL EXPANSION JOINTS ON ROBERTS EXPRESSWAY; ALSO THE EXPANSION JOINT ON THE BRIDGE OVER THE EXPRESSWAY ON WESTMINSTER STREET.
14. REPAIRED EXPANSION JOINT ON GASPEE STREET BRIDGE.
15. REPAIRED TWO BREAKS IN FENCE AT RED BRIDGE DAMAGED BY AUTOMOBILES.
16. REPAIRED EXPANSION JOINT ON POINT STREET VIADUCT.
17. REPAIRED STRUCTURAL STEEL IN SIDEWALK OF POST OFFICE BRIDGE.
18. REPLACED 32 STRUCTURAL STEEL BRACES AND PLACED 16 TEMPORARY WOODEN FLOOR BEAMS UNDER RED BRIDGE.

#### SIDEWALK AND 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; ISSUES LICENSES AND PERMITS TO SIDEWALK CONTRACTORS FOR THE REPAIR, CONSTRUCTION OR RECONSTRUCTION OF SIDEWALKS; INSPECTS ALL SIDEWALK WORK, MAKES TEMPORARY MINOR REPAIRS TO SIDEWALKS; AND IS RESPONSIBLE FOR THE POSTING AND MAINTENANCE OF STREET AND MEMORIAL SQUARE SIGNS.

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$16,931.72
ITEM 1 SERVICES OTHER THAN PERSONAL	3,576.49
ITEM 2 MATERIALS AND SUPPLIES	809.46
TOTAL	<u>\$21,317.67</u>

REVENUE: SIDEWALK CONTRACTORS LICENSES - \$630.00

THE OPERATIONS OF THE SECTION WERE AS FOLLOWS:

SIDEWALK CONTRACTORS' LICENSES ISSUED	61
NOTICES SERVED TO BUILD OR REPAIR	390
BUILT OR REPAIRED	265
PERMITS TO BUILD OR REPAIR	583
SEWER OPENINGS INSPECTED	143
DRIVEWAYS INSPECTED	264
MEMORIAL SQUARE SIGNS REPAINTED AND RELETTERED	16
MEMORIAL SQUARES APPROVED BY THE COUNCIL	1
SIDEWALKS INSPECTED AFTER INSTALLATION OF NEW WATER SERVICES	64
STREETS ABANDONED BY COUNCIL AND SIGNS ERECTED	11
WASHOUT DEPRESSIONS INSPECTED	191

SIDEWALK CLAIMS INVESTIGATED	39
STREET SIGNS REPAINTED AND RELETTERED	315
POLE OPENINGS INSPECTED	158
TOTAL LIN.FT. OF TAR CONCRETE SIDEWALKS BUILT	21,756
TOTAL LIN.FT. OF CEMENT CONCRETE SIDEWALKS BUILT	17,079

THIS SECTION MADE A SURVEY OF ALL SIDEWALKS IN CONJUNCTION WITH THE ROAD BUILDING PROGRAM ON THE FOLLOWING STREETS: ALLENS AVENUE AND POCASSET AVENUE,

THIS SECTION REPLACED 935 DEFECTIVE STREET SIGNS WITH NEW BLACK AND WHITE METAL SIGNS.

#### FORESTRY SECTION

THIS SECTION IS RESPONSIBLE FOR THE PLANTING, CARE, MAINTENANCE AND REMOVAL OF TREES AND SHRUBBERY WITHIN THE LIMITS OF THE HIGHWAYS

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$69,059.26
ITEM 1 SERVICES OTHER THAN PERSONAL	14,970.46
ITEM 2 MATERIALS AND SUPPLIES	<u>5,253.47</u>
TOTAL	\$89,283.19

REVENUE: \$171.23

IN CONJUNCTION WITH THE MASTER PLAN FOR SHADE TREES ADOPTED BY THE SPECIAL SHADE TREE DEVELOPMENT COMMITTEE OF THE CITY COUNCIL IN 1952, THIS SECTION MADE A SURVEY OF SHADE TREES ON THE PUBLIC STREETS OF THE CITY. THIS SURVEY COMPLETED IN OCTOBER 1952 SHOWED THE FOLLOWING:

TOTAL NUMBER OF SHADE TREES ON CITY STREETS	27,234
MAPLE TREES (ALL TYPES)	20,651
ELM TREES	4,746
OAK TREES (ALL TYPES)	539
MISCELLANEOUS (ALL OTHER TREES)	1,298

MOST OF THESE TREES ARE LARGE, WELL GROWN AND REPRESENT TREES FROM 25 TO 50 FEET TALL.

TREES 25 TO 50 FEET TALL	85.1%	23,176
TREES OBER 50 FEET TALL	4.2%	1,144
TREES UNDER 25 FEET TALL	10.7%	2,914

LESS THAN ONE PER CENT 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 OVERALL PROGRAM FOR THE CONTROL OF THIS DISEASE BEING PURSUED BY THE STATE OF RHODE ISLAND, DEPARTMENT OF AGRICULTURE AND CONSERVATION.

428 DISEASED ELM TREES WERE CONDEMNED AND REMOVED THIS YEAR. 297 OF THESE TREES WERE ON CITY STREETS AND 131 ON PRIVATE PROPERTY. THE FORESTRY SECTION REMOVED 142

TREES AND THE REMAINDER WAS TAKEN DOWN UNDER PRIVATE CONTRACT.

THE FOLLOWING IS A RECAPITULATION OF THE DUTCH ELM TREES REMOVED:

FORESTRY SECTION	142
SAMUEL KINDER BROTHERS	155
F.J.FEIGHERY COMPANY	<u>131</u>
TOTAL	428

THE NURSERY AT ROGER WILLIAMS PARK CONSISTS OF PIN OAKS AND UPRIGHT MAPLES. THE CULTIVATION AND GROWTH OF THESE TREES IS PROGRESSING WELL AND MORE LAND HAS BEEN CLEARED AND CULTIVATED FOR FUTURE PLANTING. 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 1170 TREES IN THE NURSERY.

FOLLOWING IS A RESUME OF THE ACTIVITIES PERFORMED ON THE TREES OF THE CITY:

NUMBER OF TREES PRUNED (REGULAR)	2,762
NUMBER OF TREES REMOVED (REGULAR)	741
NUMBER OF TREES SPRAYER	6,209
NUMBER OF TREES PLANTED	690

#### SNOW REMOVAL

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:

WARDS 1, 2, AND 3 BY THE INCINERATOR TRUCKS  
WARDS 7 AND 8 BY RUBBISH TRUCKS  
WARDS 9 AND 10 BY SEWER MAINTENANCE TRUCKS  
WARDS 4, 5, 6, 11, 12 AND 13 BY HIGHWAY TRUCKS

THIS SECTION USED THE FOLLOWING MATERIALS DURING THE YEAR:

10,855 TONS OF SAND	1,410.40 TONS OF SALT
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THE EXPENDITUREW OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$85,707.72
ITEM 1 SERVICES OTHER THAN PERSONAL	53,880.96
ITEM 2 MATERIALS AND SUPPLIES	<u>51,326.35</u>
TOTAL	\$190,995.03

#### SEWER CONSTRUCTION AND MAINTENANCE SECTION

THIS SECTION IS RESPONSIBLE FOR INSPECTION, MAINTAINING, CLEANING, REPAIRING, CONSTRUCTING AND RECONSTRUCTING SEWERS AND SEWER APPUTENANCES SUCH AS MANHOLES, CATCH BASINS, INLETS, ETC., OF THE SEWER SYSTEM.

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$314,210.73
ITEM 1 SERVICES OTHER THAN PERSONAL	50,033.94
ITEM 2 MATERIALS AND SUPPLIES	<u>17,771.32</u>
TOTAL	\$382,015.99

REVENUE: \$36,014.29

MAINTENANCE AND CONSTRUCTION WORK PERFORMED:

MANHOLES REPAIRED AND/OR REBUILT	23
CHUTES REPAIRED AND/OR REBUILT	81
CATCH BASINS REPAIRED AND/OR REBUILT	35
BROKEN INLET STONES REPLACED	30
INLET STONES REPAIRED	2
GUTTER GRATES REPAIRED AND REMODELED	4
BROKEN AND DEFECTIVE MANHOLE COVERS REPLACED	27
BROKEN AND DEFECTIVE CATCH BASIN COVERS REPLACED	25
SEWER LINES REPAIRED	6
BROKEN GUTTER GRATES REPLACED	5
MANHOLE FRAMES REPLACED	7
CATCH BASIN FRAMES REPLACED	1
NEW GUTTER GRATE BOXES BUILT (GRATE BASIN)	2
BROKEN INLET COVERS REPLACED	1
BROKEN TRAPS REPLACED	9
NEW APRON STONES INSTALLED	1
BROKEN CHUTE COVERS REPLACED	3
GUTTER GRATES BUILT (NEW)	1
BASIN CONNECTIONS REPAIRED	3

OTHER CONSTRUCTION AND MAINTENANCE WORK PERFORMED BY THIS SECTION:

1. 316 RIVER AVENUE - REMODELED CATCH BASINS
2. 389 CHARLES STREET - REMOVED INLET STONE AND REMODELED BASIN WITH GRATE
3. CYR AND BROAD STREETS - RESET BASIN TO GRADE (REPAIR WORK)
4. 41 ROUNDS AVENUE - BUILT NEW BASIN AND 14 FT. OF 8" CONNECTION TO ELIMINATE FLOOD CONDITION DUE TO LOW AREA.
5. HUNTINGTON AVENUE - BULKHEADED CONNECTION AT TRAP TO ABANDON BASIN
6. SHIP STREET - REMODELED BASIN AND BUILT GUTTER GRATE CHUTE.
7. REAR OF INCINERATOR - TO ALLEVIATE STRAIN ON EJECTOR PUMPS CAUSED BY CATCH BASIN BEING CONNECTED TO SANITARY LINE, A NEW 95-FT. 12" LINE WAS LAID FROM BASIN TO STORM LINE, AND SANITARY LINE WAS BULKHEADED.
8. WASHINGTON PARK PUMPING STATION - DUE TO CRACK IN FOUNDATION WALL OF BUILDING, DUG DOWN 8 FT. REPAIRED ARCH AND REINFORCED AFFECTED WALL.
9. NARRAGANSETT AVENUE - BUILT WEIR IN LINE AT MANHOLE TO KEEP SANITARY LINE FROM EMPTYING INTO STORM LINE.
10. MANTON AVENUE DUMP - DUE TO FILLING OF DUMP, THE DRAINAGE SYSTEM HAD TO BE REVAMPED AND EXTENDED. TO ACCOMPLISH THIS TWO LINES WERE EXTENDED 21 FT. EACH TO A NEW MANHOLE

WHICH WAS BUILT WITH A 49-FOOT LINE EXTENDED TO THE BROOK.

11. WATERMAN STREET - 150' EAST OF BENEFIT STREET - RELAID 18' OF BROKEN 12" LINE.
12. EAST RIVER STREET - DUE TO BREAK IN WATER MAIN THE COMBINATION STORM AND SANITARY LINE WAS UNDERMINED AND COLLAPSED TO THE EXTENT OF 12 FEET, WITH 47 ADDITIONAL FEET BEING CRACKED. THIS NECESSITATED THE COMPLETE REPLACEMENT OF 59 FT. OF 15" LINE WITH TWO 6" AND ONE 8" CONNECTIONS. ALSO, APPROXIMATELY 300' OF REMAINING LINE HAD TO BE RODDED AND FLUSHED BECAUSE OF HAVING BEEN COMPLETELY FILLED BY THE RESULTING SAND AND STONE. TWO CONNECTION MANHOLES WERE ALSO CLEANED OF SAND AND STONE, AMOUNTING TO A TOTAL OF APPROXIMATELY 30 SQ.YDS. OF DIRT AND DEBRIS REMOVED FROM LINE.
13. SEWAGE DISPOSAL PLANT - BUILT FOUR INVERTS IN MANHOLE TO SERVE AS GREASE TRAPS IN DISPOSAL SYSTEM OF PLANT.
14. SEWER MAINTENANCE YARD - LOCATED AND REPAIRED LEAK IN WATER LINE BETWEEN ERNEST STREET HYDRANT AND UTILITY OUTLET IN REAR. (MATERIALS SUPPLIED BY WATER DEPARTMENT)
15. SEWAGE DISPOSAL PLANT - AT THE RECOMMENDATION OF THE DESIGNING ENGINEERS, THE SPACE AROUND THE AERATION TANKS AND THE OPENING IN THE TANK ROOMS WERE BRICKED UP. A MANHOLE FRAME AND COVER WAS ALSO SET IN AS AN ENTRANCE TO TANK ROOM - THIS TO IMPROVE THE EFFICIENCY AND GENERAL OPERATION OF THE PLANT. (THIS WORK WAS NOT INCLUDED IN THE CONTRACTUAL DESIGN.)
16. NORTH MAIN STREET AT CHACE STREET - FREED SEWER LINE AND REPLACED TWO EIGHT INCH PIPES.
17. 240 PRAIRIE AVENUE - RELAID 18 FT. BASIN CONNECTION TO NEW LOCATION.
18. WARD STREET AT SOUTH WATER STREET - REPAIRED 12" SEWER LINE. (STORM DRAIN 21 FT.)
- 19.. BUCKLIN AND RUTLAND STREETS - REPAIRED 6 FT. OF 8" CHUTE CONNECTION.
20. HUNTINGTON AVENUE AND DEXTER STREET - BUILT WEIR IN LATERAL LINE (12" WALL) TO ACT AS FURTHER BARRIER TO PREVENT POLLUTION OVERFLOW INTO STORM LINE DUCT.
21. NARRAGANSETT AVENUE - ADDED FOUR COURSES OF 8" WALL TO PRESENT WEIR TO ACT AS FURTHER POLLUTION BARRIER AT STORM LINE CONNECTION.
22. DYER AND WESTMINSTER STREETS - DUE TO COLLAPSE OF GATE, NEW GATE WAS BUILT AND INSTALLED AND LAFFER REPAIRED, IN CONJUNCTION WITH POLLUTION CONTROL IN DRAINAGE SYSTEM.
23. ERNEST STREET AT PUMPING STATION - BECAUSE OF FAILURE IN SYSTEM AT PUMPING STATION, BUILT BULKHEAD IN 48" TUBE TO PROVIDE BYPASS FOR SEWAGE TO ALLEVIATE LOAD UNTIL NECESSARY REPAIRS COULD BE MADE.
24. DORRANCE AND DYER STREETS - DUE TO COLLAPSE OF TIDE GATE, GATE NO.1 WAS REMOVED THROUGH DISSEMBLED MANHOLE AND REBUILT; AND GATE REPLACED WITH THE MANHOLE BEING REBUILT.
25. DORRANCE AND DYER STREETS - ALSO DUE TO THE ABOVE MENTIONED COLLAPSE, GATE NO.2 WAS REMOVED THROUGH DISSEMBLED MANHOLE AND REBUILT, REPLACED, AND MANHOLE REBUILT.
26. ERNEST STREET PUMPING STATION - REMOVED EMERGENCY BULKHEAD FROM 48" TUBE THAT WAS INSTALLED DURING FAILURE OF VALVES AT THIS STATION.

27. INDIA STREET SUMP - REPAIRED LEAKS IN WATER INTAKE AND DISCHARGE PIPE, AND REBUILT TWO MANHOLES. ALSO, CLEARED LINES OF STONES, ETC., TO RESTORE PRESSURE IN SMALL SUMP.
28. WATERMAN STREET TO R.I. SCHOOL OF DESIGN - IN CONNECTION WITH SCHOOL BUILDING PLAN, TWO INLET STONES WERE RELOCATED WITH THE NECESSARY CONNECTIONS MADE TO EXISTING LINES.
29. PERIODICALLY INSPECTED AND CLEANED CULVERTS AT GARFIELD BROOK, MASHAPAUD POND, YORK POND, OPHELIA BROOK AND KILLINGLY BROOK.

THE FOLLOWING IS A RESUME OF BASINS, GUTTER GRATES, AND SUMPS CLEANED AND DEPOSITS REMOVED; LINES FLUSHED; AND COMPLAINTS RECEIVED:

27,260 BASIN INSPECTIONS	
10,895 BASINS CLEANED	26,581.59 CU.YDS.REMOVED
102 SUMPS CLEANED	461.50 CU.YDS.REMOVED
1,200 GUTTER GRATES CLEANED	667.31 CU.YDS.REMOVED
9 OPEN DRAINS CLEANED	33.00 CU.YDS.REMOVED
LINES FLUSHED	50,160 FEET
1,420 COMPLAINTS RECEIVED	ALL CLEARED

THE FOLLOWING IS A RESUME OF PRIVATE DRAIN INSPECTIONS MADE IN CONJUNCTION WITH PRIVATE DRAIN CONSTRUCTIONS AND ALTERATIONS;

STREET OPENINGS FOR PRIVATE DRAIN CONNECTIONS 118  
 INSPECTIONS AND RECORD SKETCHES FOR PRIVATE  
 DRAIN CONSTRUCTION AND ALTERATIONS:

ORIGINAL	194	EXTENSIONS	338
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THE FOLLOWING IS A LISTING OF WORK PERFORMED IN CONJUNCTION WITH HIGHWAY ROAD PROGRAM:

BASINS BROUGHT TO NEW GRADE	2
INLET STONES RESET TO NEW GRADE	7
MANHOLES RESET TO NEW GRADE	552

#### PUBLIC BUILDINGS 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 THE SECTION SUPERVISE THE VARIOUS CONSTRUCTION PROJECTS.

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$84,104.08
ITEM 1 SERVICES OTHER THAN PERSONAL	4,497.60
ITEM 2 MATERIALS AND SUPPLIES	358.96
TOTAL	\$88,960.64

DURING THE YEAR THE FOLLOWING WORK WAS ACCOMPLISHED BY THIS SECTION:

1. SUPERVISED REPAIRS AND ADDITIONS TO ALL BUILDINGS OF THE SCHOOL DEPARTMENTS, POLICE AND FIRE DEPARTMENTS, RECREATION DEPARTMENT, TRAFFIC ENGINEERS DEPARTMENT, WELFARE DEPARTMENT, BATH HOUSES, COMFORT STAYIONS, AND CITY HALL.
2. SUPERVISED CONSTRUCTION OF GYMNASIUM AND POOL AT JOSLIN AND HYAT STREETS.
3. SUPERVISED CONSTRUCTION OF JOSLIN STREET ELEMENTARY SCHOOL.
4. SUPERVISED CONSTRUCTION OF SOUTH PROVIDENCE PLAYFIELD.
5. SUPERVISED THE CONSTRUCTION OF THE JOSLIN STREET PLAYFIELD.
6. SUPERVISED PREPARATION OF PLANS AND SPECIFICATIONS AND INSPECTED CONSTRUCTION WORK AT METCALF FIELD.
7. SUPERVISED PRELIMINARY PLANS AND SPECIFICATIONS FOR MARY C. FOGARTY ELEMENTARY SCHOOL AND THE DANFORTH STREET ELEMENTARY SCHOOL.
8. SUPERVISED PREPARATION OF PLANS AND SPECIFICATIONS FOR REPAIRING ROOFS AND HEATING PLANTS OF VARIOUS SCHOOLS.
9. SUPERVISED AND INSPECTED WORK BEING DONE UNDER THE SCHOOL MODERNIZATION PROGRAM.
10. PREPARED PLANS AND SPECIFICATIONS AND INSPECTED WORK AT THE JUNION POLICE CAMP, POINT JUDITH AND THE SWIMMING POOLS AT FEDERAL HILL AND SOUTH PROVIDENCE FOR THE RECREATION DEPARTMENT.
11. PREPARED PLANS AND SPECIFICATIONS AND SUPERVISED WORK IN CONJUNCTION WITH THE MAINTENANCE OF THE VARIOUS PLAYGROUNDS.

DRAW BRIDGE OPERATION SECTION

THIS SECTION IS RESPONSIBLE FOR THE OPERATION OF THE TWO DRAW BRIDGES (POINT STREET AND RED BRIDGE) OWNED AND OPERATED BY THE CITY OF PROVIDENCE, THE MEN IN THIS SECTION ALSO PERFORM 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.

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$37,283.91
ITEM 1 SERVICES OTHER THAN PERSONAL	881.19
ITEM 2 MATERIALS AND SUPPLIES	308.43
TOTAL	\$38,473.53

REVENUE: \$25.20

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 OPENED 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 ONLY MADE FOUR OPENINGS DURING THIS FISCAL YEAR.

THE FOLLOWING TABLE SHOWS THE NUMBER AND TYPE OF CRAFT PASSING THROUGH BOTH POINT STREET AND RED BRIDGES BY MONTHS FOR THE FISCAL YEAR. IT ALSO SHOWS THE TOTAL OF VESSELS AND OPENINGS AND AVERAGE TIME FOR OPENINGS FOR THIS FISCAL YEAR AND THE FISCAL YEAR IMMEDIATELY PRECEDING.

SUMMARY OF OPERATIONS FOR  
SUMMARY OF OPERATIONS FOR YEAR ENDING SEPTEMBER 30, 1959. YEAR ENDING SEPT. 30, 1958

	STEAMERS	TUGS	SAIL BOATS	BARGES	MISCELLANEOUS	TOTAL NO. VESSELS YEAR 1958-1959	TOTAL OPENINGS YEAR 1958-1959	AVERAGE TIME OPENING TO CLOSE OF GATES (MIN.)	TOTAL NO. VESSELS YEAR 1957-1958	TOTAL OPENINGS YEAR 1957-1958	AVERAGE TIME OPENING TO CLOSE OF GATES (MINUTES)
<u>POINT STREET BRIDGE</u>											
OCTOBER		2		2	4	2	10.00		6	4	4.38
NOVEMBER					0	0			0	0	-
DECEMBER					0	0			0	0	
JANUARY					0	0			0	0	
FEBRUARY					0	0			0	0	
MARCH					0	0			0	0	
APRIL					0	0			0	0	
MAY					0	0			0	0	
JUNE					0	0			0	0	
JULY					0	0			0	0	
AUGUST					0	0			0	0	
SEPTEMBER			2		2	2	15.00		3	2	7.50
	2	2	2		6	4			9	6	
<u>RED BRIDGE</u>											
OCTOBER	17	32		14	63	43	4.26		79	52	4.20
NOVEMBER	20	36		15	73	50	4.44		105	68	4.14
DECEMBER	21	58		21	103	79	4.06		110	70	4.04
JANUARY	25	84		21	133	87	4.66		130	78	4.87
FEBRUARY	19	47		17	83	56	4.68		147	79	4.76
MARCH	22	47		14	85	50	4.97		95	56	4.07
APRIL	18	40		10	74	50	4.40		109	68	4.47
MAY	12	32		16	68	49	6.21		66	48	4.58
JUNE	12	33		21	67	38	6.66		67	43	3.79
JULY	4	28	2	11	64	51	3.78		46	32	4.30
AUGUST	29	35		20	102	77	3.46		46	40	3.41
SEPTEMBER	4	40		22	106	77	4.13		76	46	4.76
	203	512	2	202	1021	707			1076	580	



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.

1930 TO DATE, YEARS END SEPTEMBER 30.

YEAR	POINT STREET	RED	YEAR	POINT STREET	RED
	BRIDGE	BRIDGE		BRIDGE	BRIDGE
1907	25,949	2,632	1932-33	1,327	2,787
1908	21,767	4,852	1933-34	1,990	3,758
1909	17,128	6,914	1934-35	1,387	2,454
1910	17,125	2,927	1935-36	1,468	2,150
1911	20,078	3,293	1936-37	1,368	2,130
1912	21,519	3,021	1937-38	1,136	1,913
1913	15,113	2,734	1938-39	1,676	2,187
1914	13,364	2,491	1939-40	1,299	3,431
1915	14,409	2,755	1940-41	1,066	2,420
1916	11,638	3,368	1941-42	1,205	1,722
1917	9,704	3,273	1942-43	1,263	1,087
1918	6,894	2,680	1943-44	1,487	2,262
1919	7,123	3,476	1944-45	1,233	1,319
1920	6,950	4,451	1945-46	1,078	1,828
1921	6,067	2,001	1946-47	936	1,540
1922	5,307	2,958	1947-48	1,010	1,541
1923	5,476	5,134	1948-49	666	2,130
1924	4,858	2,035	1949-50	630	1,609
1925	4,939	1,942	1950-51	371	1,973
1926	5,198	2,415	1951-52	125	1,628
1927	4,700	2,934	1952-53	202	1,752
1928	4,679	3,912	1953-54	51	2,787
1929	4,068	3,623	1954-55	803	1,313
1929-30	3,210	2,738	1955-56	141	1,536
1930-31	3,243	2,742	1956-57	16	1,189
1931-32	1,197	1,900	1957-58	9	1,076
			1958-59	6	1,021

BRIDGE	GREATEST NUMBER OF OPENINGS IN ANY ONE DAY		DAILY AVERAGE NUMBER OF OPENINGS FOR THE YEAR	
	1957-58	1958-59	1957-58	1958-59
RED	10	10	1.86	1.95
POINT	2	1	0.016	0.008

#### STREET LIGHTING SECTION

THIS SECTION IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE ELECTRIC LIGHTING FACILITIES FOR THE STREETS, BRIDGES, SUBWAYS AND PARKS OF THE CITY. THE ACTUAL CONSTRUCTION AND MAINTENANCE WORK IS PERFORMED THROUGH CONTRACT BY THE NARRAGANSETT ELECTRIC COMPANY. THE APPROPRIATION FOR THE ACCOMPLISHMENT OF THIS WORK FOR THE

FISCAL YEAR ENDING SEPTEMBER 30, 1959 WAS \$507,743.00.

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$4,241.25
ITEM 1 SERVICES OTHER THAN PERSONAL	502,267.29
ITEM 2 MATERIALS AND SUPPLIES	10.00
TOTAL	\$506,518.54

REVENUE: \$103.90

STREET LIGHTING COSTS:

INCANDESCENTS AND MERCURYS

<u>1958</u>	<u>TOTAL BILL</u>	<u>LESS OUTAGE</u>	<u>NET COST</u>
OCTOBER	\$41,838.50	\$88.23	\$41,750.27
NOVEMBER	41,853.72	113.43	41,740.29
DECEMBER	41,009.39	123.20	41,686.19
<u>1959</u>			
JANUARY	41,822.38	152.26	41,670.12
FEBRUARY	*41,409.76	155.41	41,254.35
MARCH	41,779.16	107.23	41,671.93
APRIL	41,798.88	74.48	41,724.40
MAY	41,786.34	54.20	41,732.14
JUNE	41,819.85	48.88	41,770.97
JULY	41,815.39	46.93	41,768.46
AUGUST	41,773.25	59.54	41,713.71
SEPTEMBER	41,812.01	47.63	41,764.38
TOTALS	\$501,318.63	\$ 1,071.42	\$500,247.21

\* STORM CREDIT:

FOR STREET LIGHTS NOT OPERATING THE NIGHT OF FEBRUARY 10, 1959, DUE TO THE ICE STORM, \$395.18 DEDUCTION IS INCLUDED IN THE \$41,409.76 TOTAL

#### STREET LIGHTING UNIT COSTS

UNDER THE PROVISIONS OF SECTION 17 OF THE EXISTING CONTRACT FOR STREETS LIGHTS - THIS BEING THE SO-CALLED "FUEL CLAUSE", THE COST OF THE STREET LIGHTS FOR THE YEAR BEGINNING OCTOBER 1, 1958 DEPENDED UPON THE COST OF FUEL FOR THE YEAR ENDING JULY 31, 1959. THIS COST AVERAGED 12.82 AND RESULTED IN A DECREASE IN COST OVER THAT OF THE PREVIOUS YEAR. A TABULATION SHOWING THE UNIT PRICES FOR THE YEAR BEGINNING OCTOBER 1, 1959 IS AS FOLLOWS:

	ANNUAL INCREASE PER 10¢		INCREASE			
	IN COST OF		NO. OF		INCREASE	
	FUEL ABOVE		10¢ ABOVE		OVER	
	<u>\$0.00</u>	<u>BASE</u>	<u>\$8.00</u>	<u>BASE</u>	<u>BASE</u>	<u>NEW</u>
			<u>FUEL PRICE</u>	<u>PRICE</u>	<u>PRICE</u>	<u>PRICE</u>
<u>INCANDESCENT 100 C.P.</u>						
U.G. ALL NIGHT	.025		49	\$1.23	\$28.03	\$29.26
U.G. 2 LT. CLUSTER A.N.	.05		49	2.45	37.57	40.02
U.G. 5 LT. CLUSTER A.N.	.125		49	6.13	66.02	72.15
U.G. SINGLE, ½ NIGHT	.012		49	.59	24.61	25.20
U.G. 2 LT. ½ NIGHT	.024		49	1.18	30.72	31.90
U.G. 3 LT. ½ NIGHT	.036		49	1.76	37.33	39.09
U.G. 5 LT. ½ NIGHT	.06		49	2.94	48.89	51.83
AERIAL SINGLE, A.N.	.025		49	1.23	15.00	16.23
AERIAL SINGLE, ½ NIGHT	.012		49	.59	9.90	10.49
<u>MISCELLANEOUS</u>						
250 C.P. U.G. A.N.	.05		49	2.45	50.00	52.45
250 C.P. AERIAL, A.N.	.05		49	2.45	30.00	32.45
1000 C.P. AERIAL A.N.	.18		49	8.82	65.00	73.82
1000 C.P. U.G. A.N.	.18		49	8.82	85.00	93.82
1000 C.P. U.G. ½ NIGHT	.096		49	4.70	60.37	73.07
10,000 LUMEN SODIUM, U.G.	.048		49	2.35	85.00	87.35
10,000 LUMEN SODIUM, O.H.	.048		49	2.35	65.00	67.35
600 C.P. INCANDESCENT, O.H.	.072		49	3.53	50.00	53.53
600 C.P. INCANDESCENT	.072		49	3.53	70.00	73.53
15,000 LUMEN MERCURY, O.H.	.18		49	8.82	65.00	73.82
15,000 LUMEN MERCURY, U.G.	.18		49	8.82	85.00	93.82
15,000 LUMEN MERCURY, U.G. 2 LT.	.36		49	17.64	152.00	169.64
15,000 LUMEN MERCURY UNDERPASSES 24 HR.	.394		49	19.31	107.35	126.66
21,000 LUMEN O.H.	—		—	—	100.00	100.00
21,000 LUMEN U.G.	—		—	—	120.00	120.00

MALL PARKING DECK LIGHTS  
1 FRANCIS STREET

THE MALL PARKING DECK LIGHTS ARE CHARGED TO THE GENERAL STREET LIGHTING ACCOUNT AT THE CURRENT "G" SCHEDULE RATE PER KWH. THEY ARE ON A CIRCUIT, SEPARATELY METERED, AND DO NOT APPEAR ON THE REGULAR SCHEDULE.

<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 6 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

1958		
MONTH	K.W. USED	DUTY
OCTOBER	5760	\$110.03
NOVEMBER	5360	106.20
DECEMBER	5840	109.79
1959		
JANUARY	5800	108.21
FEBRUARY	5460	108.08
MARCH	5100	99.08
APRIL	5300	100.05
MAY	7860	134.82
JUNE	8080	135.91
JULY	5240	106.03
AUGUST	5300	97.78
SEPTEMBER	6560	119.90
		\$1,337.48

# NUMBER AND KIND OF STREET LIGHTING UNITS IN SERVICE IN PROVIDENCE SINCE 1928

YEAR	ARCS		INCANDESCENTS					SODIUM		MERCURY				
	BRIDGE STRUCTURE 24 HR.	BURNING	1520	100cp.	250cp.	400cp.	750W	300W	1000cp	600cp	1000cp	400W	6800	LUM.
1928		1739	8605	6	8	10	10	48						
1929		1749	8720	9	14	10	15	48						
1930		1779	8704	8	14	10	15	48						
1931		1771	8748	8	14	10	15	78						
1932		1758	8699	8	16	10	15	118						
1933		1758	8702	8	16	10	15	118						
1934		1746	8709	8	16	10	15	130						
1935		1746	8727	8	16	10	14	130						
1936		1697	8691	8	16	9	14	214						
1937		1697	8703	8	16	9	14	214						
1938		1628	8724	8	16	9	14	320						
1939		1626	8735	8	16	9	14	328						
1940		1619	8746	8	16	9	14	331	29	25				
1941		1513	8727	8	16	9	14	508	29	25				
1942		15131	8731	8	16	9	14	598	29	25				
1943		1513	8731	8	16	9	14	540	29	25				
1944		1499	8741	8	16	9	14	540	29	25				
1945		1485	8756	8	16	9	14	540	29	25				
1946		1364	8513	8	104	9	14	554	29	26	19			
1947		1264	8709	8	69	9	14	568	29	26	179			
1948		1199	8687	8	16	9	14	568	29	26	256			
1949		750	8624	115	16	9	14	586	29	25	1049			
1950		514	8701	116	14	9	14	550	29	25	1556			
1951		298	8721	162	14	9	14	560	29	25	1855			
1952		124	8668	226	9	0	0	565	29	25	2360			
1953		36	8671	251	1	0	0	504	29	25	2802			
1954	44	0	8308	314	0	0	0	506	29	25	3293			
1955	44	0	8277	414	0	0	0	449	29	25	3428			
1956	44	0	8228	447	0	0	0	435	29	25	3476			
1957	44	0	8248	489	0	0	0	391	29	25	3501			
1958	44	0	8192	484	0	0	0	349	29	25	3570			
1959	44	0	8236	512	0	0	0	348	29	2	3593	7		

# SCHEDULE OF STREET LIGHTING DATA

	O.H.	A.N.		1000 CP.		O.H.	A.N.
	600 CP.		U.G. A.N.	U.G. H.N.			
OCTOBER 1, 1958	29		319	3		27	
SEPTEMBER 30, 1959	29		318	3		27	
CHANGES	0		1	0		0	

  

	MERC. 6800 LU.	MERC. 2 LT. AN UG	MERC. VAP. OH	MERC. A.N.U.G.	SODIUM LIGHTS UG AN
OCT. 1, 1958	0	7	2121	1442	22
SEPT. 30, 1959	7	6	2102	1444	22
CHANGES	7	1	19	2	0

  

	100 CP. U.G.	100 CP.	O.H.	MERC. VAP	A.N.O.H.U.G.
	A.N. U.G. H.N.	A.N.	H.N.	24 HR. U.G.	250 CP
OCT. 1, 1958	156 232	7787-B	9	44	474 10
SEPT. 30, 1959	150 227	7850	9	44	485 15
CHANGES	6 5	63	0	0	11 5

	SEPT. 30, 1958	SEPT. 30, 1959	CHANGES
TOTAL NUMBER EQUIVALENT SINGLE INCANDESCENT LIGHTS	9054	9125	71
TOTAL NUMBER MERCURY LIGHTS 15,000 LUMEN	3614	3593	21
TOTAL NUMBER EQUIVALENT SINGLE SODIUM LIGHTS	25	22	3

FROM MAY 1 TO OCTOBER 14, INCLUSIVE, THE H.N. LIGHTS BURN ONE EXTRA HOUR UNTIL 1 A.M.  
THE SUBWAY LIGHTS (GASPEE, FRANCIS, PROMENADE) ARE ALL ON A 24-HOUR BURNING SCHEDULE

THE TWO 2-LIGHT CLUSTERS AT THE THAYER ST. ENTRANCE TO THE TUNNEL, HAVE BEEN REPLACED BY ONE 15,000 LUMEN MERCURY WHICH  $\frac{1}{2}$  THE COST IS CHARGED TO THE UNITED TRANSIT COMPANY

B - INCLUDES 8 LIGHTS ON MONTGOMERY AVENUE FOR WHICH CRANSTON PAYS \$7.00 PER LIGHT PER ANNUM.

## NARRAGANSETT ELECTRIC COMPANY FUEL COSTS

THE RATES WHICH ARE AFFECTED BY FUEL COSTS ARE:

GENERAL SERVICE RATE D	\$5.00
POWER RATE F	5.10
POWER RATE G	5.50
LIMITED SERVICE RATE H-3 ABOVE	5.00

THESE RATES ARE AFFECTED ONLY WHEN THE COST OF FUEL EQUALS OR EXCEEDS THE ABOVE AMOUNT PER GROSS TON. THIS CONDITION EXISTED THROUGHOUT THE YEAR.

THE COST OF FUEL BY MONTH WAS AS FOLLOWS:

<u>1958</u>	
OCTOBER	14.20
NOVEMBER	13.63
DECEMBER	13.38
<u>1959</u>	
JANUARY	13.05
FEBRUARY	12.97
MARCH	12.70
APRIL	12.27
MAY	12.08
JUNE	12.08

JULY	11.88
AUGUST	11.83
SEPTEMBER	11.81

TON

THE ABOVE FIGURES SHOW THAT THE AVERAGE PRICE PER TON FOR THE YEAR WAS \$12.66.

THE NUMBER OF LAMPS AND GLOBES REPORTED AS BROKEN ON STREET LIGHTS DURING THE YEARS 1957-1958-1959 WERE AS FOLLOWS:

	<u>INC. AND MERCURY GLOBES</u>	<u>LIGHTS BROKEN</u>	<u>MERC. GLOBES</u>
1957-58	30	3635	50
1958-59	20	3401	90

#### RECAPITULATION

GRANT TOTAL	\$500,247.21
TOTAL MONTHLY AVERAGE COST 1957-58	41,294.28
TOTAL MONTHLY AVERAGE COST 1958-59	41,587.27

INCREASE FROM PREVIOUS YEAR OF THE TOTAL COSTS OF STREET LIGHTING	4,715.76
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TOTAL SAVINGS IN OUTAGES	1,071.42
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<u>NEW STREET LIGHT PETITIONS RECEIVED</u>	<u>GRANTED</u>	<u>REJECTED</u>	<u>HOLD</u>
66	63	2	1

<u>UTILITY POLE PETITIONS RECEIVED AND FIELD CHECKED:</u>	213
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#### SUMMARY

TWENTY-THREE 15,000 LUMEN MERCURY VAPOR LIGHTS HAVE BEEN PUT INTO SERVICE IN PUBLIC PLACES DURING THE FISCAL YEAR. THERE ARE NOW 3,593 SUCH LIGHTS IN PUBLIC USE IN THE CITY.

THE NUMBER OF 2500 LUMEN INCANDESCENT LIGHTS HAVE BEEN DECREASED BY 23, BRINGING THE TOTAL NUMBER OF THIS TYPE OF LIGHT NOW IN USE TO 512.

THERE ARE 348 - 10,000 LUMEN LIGHTS IN SERVICE IN THE CITY, AND WILL BE REPLACED WITH 15,000 LUMEN MERCURY VAPOR LIGHTS IN THE NEAR FUTURE.

THERE ARE 8236 - 1,000 LUMEN LIGHTS IN SERVICE (FAMILIAR NEIGHBORHOOD TYPE). THIS TYPE SHOWS AN INCREASE OF 44 LIGHTS OVER THE TOTAL FOR THE PREVIOUS YEAR. THERE HAVE BEEN 63 LIGHTS OF THIS TYPE INSTALLED DURING THE PAST FISCAL YEAR ON STREET PETITIONS.

#### SHOPS AND 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 SECTION.

THE SEWER CONSTRUCTION AND MAINTENANCE SHOPS AND STORES SERVICES ONLY THE SEWER CONSTRUCTION AND MAINTENANCE SECTION AND THE PASSENGER CAR 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  
PUBLIC SERVICE ENGINEER  
ENGINEERING OFFICE  
BUSINESS MANAGEMENT OFFICE  
HIGHWAY SECTION  
DRAW BRIDGE OPERATION SECTION  
STREET LIGHTING SECTION

BRIDGE MAINTENANCE SECTION  
SNOW REMOVAL SECTION  
FORESTRY SECTION  
SIDEWALKS AND CURBING SECTION  
PUBLIC BUILDINGS SECTION  
STREET CLEANING 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 TANK TRUCKS  
2 COMPRESSORS, TRUCK MOUNTED  
33 DUMP TRUCKS 4 CU.YDS.  
6 DUMP TRUCKS 6 CU.YDS.  
5 DUMP TRUCKS 3 CU.YDS.  
3 PICKUP TRUCKS 3/4 TON  
1 STAKE BODY TRUCK 1 TON  
1 PANEL TRUCK 1/2 TON  
1 EXPRESS BODY TRUCK 2 1/2 TON  
1 EXPRESS BODY TRUCK 1/2 TON  
3 CARGO TRUCKS 6 TON  
10 PASSENGER CARS  
7 AIR COMPRESSORS - PORTABLE  
1 CONCRETE MIXER 10 S  
2 FRONT END LOADERS  
1 GRADALL  
2 HOIST TRUCKS 1500#  
1 ROLLER 8-12 TON TANDEM  
1 ROLLER 10-12 TON 3 WHEEL  
3 ROLLERS 3-5 TON TANDEM  
1 ROLLER 3-5 TON PORTABLE  
3 WALTERS SNOW FIGHTERS

1 HOIST TRUCK 5000#  
2 BULLDOZERS TD 18  
1 SKY WORKER  
1 WELDER, ELECTRIC PORTABLE  
2 SHOVELS 3/4 CU.YDS.  
5 ROAD GRADERS  
2 MIST SPRAYERS  
2 CONCRETE MIXERS 3 S  
9 STREET SWEEPERS  
9 SNOW LOADERS  
5 LAWN MOWERS - POWER  
19 TAIL GATE SPREADERS  
80 SNOW PLOWS  
1 TRAILER 25 TON, FLATBED, W/TRACTOR  
2 TRACTORS  
2 ROLLERS 10-14 TON TANDEM  
1 ROLLER 10-12 TON TANDEM  
1 PAVER, ASPHALT  
3 TOOL HEATERS  
3 LEAF COLLECTORS  
5 GENERATORS, PORTABLE  
5 TOOL WAGONS

THIS EQUIPMENT IS SERVED 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:

1 STATION WAGON	1 SWEEPER
1 FORK LIFT	1 EXPRESS BODY TRUCK 2½ TON
1 DUMP TRUCK 4 CU. YDS. W/WENCH	1 HOIST TRUCK 5000#
2 SNOW LOADERS	1 PASSENGER CAR
1 LEAF COLLECTOR	1 FRONT END LOADER
1 TAIL GATE SPREADER	1 ROAD GRADER

IN ADDITION TO THE RENTAL EQUIPMENT IN THE POOL THIS SECTION ALSO SERVICES, REPAIRS AND MAINTAINS THE FOLLOWING EQUIPMENT FOR THE SECTIONS SHOWN:

2 FORK LIFTS	AUTOMOTIVE REPAIR SHOP
1 AIR COMPRESSOR	PAINT SHOP
1 INSLEY CRANE	SEWAGE DISPOSAL WORKS
1 EMERGENCY MOTOR AND GENERATOR	POINT STREET BRIDGE
1 BULLDOZER TD 9	CITY DUMP
2 BUCKETS, CLAMSHELL	INCINERATOR
4 BUCKETS, ORANGE PEEL	SEWER MAINTENANCE SECTION
1 ROLLER 5-TON TANDEM	RECREATION DEPARTMENT

THE CARPENTER SHOP, BLACKSMITH SHOP, PAINT SHOP AND MACHINE SHOP FACILITIES ARE USED TO PERFORM TASKS REQUIRED BY ALL THE SECTIONS LISTED ABOVE AS WELL AS OTHER CITY AGENCIES.

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 \$70,360.26 IN MATERIALS, SUPPLIES AND PARTS WAS ON HAND IN THE STOCK ROOM ON SEPTEMBER 30, 1959.

#### 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 FOLLOWS:

4 EDUCTORS	4 AIR COMPRESSORS - PORTABLE
3 DERRICK TRUCKS	2 CENTRIFUGAL PUMPS (6 IN.)
3 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 CARGO TRUCK (1 TON)  
1 PICKUP TRUCK  
1 SET OF SEWER WENCHES

1 CENTRIFUGAL PUMP (1½ IN.)  
1 SEWER ROD POWER DRIVER  
1 DIAPHRAGM PUMP (3 IN.)

THIS EQUIPMENT IS SERVICED AND REPAIRED IN THE SHOPS BY PERSONNEL OF THIS SECTION.

DURING THE YEAR THE FOLLOWING EQUIPMENT WAS PURCHASED:

1 PUMP (1½ IN.)

1 DUMP TRUCK

IN ADDITION TO THE RENTAL EQUIPMENT IN THE POOL THIS SECTION THROUGH ITS CARPENTER AND BLACKSMITH SHOPS, REPAIRS AND MAINTAINS ALL TOOLS, BUILDINGS, SEWER GATES, SLOTS, 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 AND CONSTRUCTION SECTION.

AN INVENTORY OF \$23,546.44 IN MATERIALS AND SUPPLIES AND PARTS WAS ON HAND IN THE STOCK ROOM ON SEPTEMBER 30, 1959.

#### RECOMMENDATIONS

1. NEW FENCES SHOULD BE BUILT ON THE BRIDGE AT MARKET SQUARE BETWEEN WESTMINSTER STREET AND EXCHANGE PLACE.
2. SIDEWALKS ON THE FOLLOWING BRIDGES, ACORN STREET, DELAINE STREET, GLENDRIDGE AVENUE, AND RED BRIDGE SHOULD BE COMPLETELY REBUILT.
3. 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.
4. THE UNDERSIDE OF THE BRIDGES IN PORT OFFICE SQUARE, MARKET SQUARE AND CRAWFORD STREET AREA SHOULD BE THOROUGHLY SCRAPED AND PAINTED.
5. 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 16 WOOD BEAMS BESIDE EACH OF THE RUSTED BEAMS TO ASSURE ADEQUATE SUPPORT. 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.
6. RECOMMEND THAT ONE OF THE FIVE 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.
7. THE HIGHWAY SECTION IS USING FIVE 10 TO 12 TON TANDEM ROAD ROLLERS. ONE OF THESE ROLLERS IS IN POOR CONDITION AND SHOULD BE REPLACED.

8. A NEW FENCE IS REQUIRED ALONG THE RAILROAD RETAINING WALL ON WEST EXCHANGE STREET.
9. THE 1951 LORAIN SHOVEL IS IN NEED OF CONSTANT REPAIRS AND SHOULD BE REPLACED WITH A HEAVY 3/4 YR. SHOVEL NOT LESS THAN 45,000# IN WEIGHT.
10. TWO (2) NEW PUMPS SHOULD BE PURCHASED FOR THE SEWER MAINTENANCE SECTION, 1 - 6" 90M AND 1 - 4" 30M.
11. NEW FACILITIES FOR USE OF THE HIGHWAY, BRIDGE MAINTENANCE, STREET CLEANING, AND CONSTRUCTION SHOPS AND STORES ARE BEING BUILT TO REPLACE PRESENT FACILITIES WHICH ARE IN THE PATH OF THE PROPOSED NORTH-SOUTH FREEWAY.
12. MERINO PARK FOOTBRIDGE SHOULD BE COMPLETELY REBUILT. THE PILES AND STRINGERS ARE IN VERY POOR CONDITION. THIS BRIDGE WAS SHORTENED BY 50 FT. THIS YEAR AND WE PLAN TO CUT OFF 20 FT. FROM THE SOUTH END. THIS WILL LEAVE A BRIDGE 50 FT. LONG TO BE REPLACED.
13. A MAINTENANCE GANG OF 1 FOREMAN AND 6 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 OFFICES, HARBOR MASTER'S BUILDING, HOUSE AND BUILDING AT RED BRIDGE, BRICK BUILDINGS AT SEWER SYPHON ON INDIA STREET AND GLOBE STREET, INCINERATOR BUILDINGS, INCINERATOR GARAGE, SEWER MAINTENANCE BUILDINGS, HIGHWAY BUILDINGS, FORESTRY BUILDING 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.

RESPECTFULLY SUBMITTED,

ROBERT B. STRONG, CHIEF  
CONSTRUCTION AND MAINTENANCE DIVISION.

SANITATION DIVISION

MR. CHARLES F. MCELROY,  
DIRECTOR OF PUBLIC WORKS,  
CITY HALL, PROVIDENCE, R. I.

DEAR SIR:

I RESPECTFULLY SUBMIT THE ANNUAL REPORT OF THE SANITATION DIVISION OF THE PUBLIC WORKS DEPARTMENT FOR THE FISCAL YEAR 1958-1959. THIS DIVISION IS DIVIDED INTO THE FOLLOWING SECTIONS:

SANITATION ADMINISTRATION	SEWAGE DISPOSAL
STREET CLEANING	REFUSE COLLECTION AND DISPOSAL
SEWAGE PUMPING STATION	GARBAGE COLLECTION AND DISPOSAL
SANITATION SHOP AND STORES	

SANITATION ADMINISTRATION

THE OFFICE PERSONNEL PERFORMS 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 PERTAINING TO THE SEWAGE DISPOSAL WORKS 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	\$11,201.92
ITEM 1 SERVICES OTHER THAN PERSONAL	699.40
ITEM 2 MATERIALS AND SUPPLIES	24.81
TOTAL	\$11,926.13

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 STREET, WEST EXCHANGE STREET, ADORN STREET, EMPIRE STREET, CHESTNUT STREET AND CLIFFORD STREET ARE CLEANED DAILY.

THE FOLLOWING STREETS 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 ADORN 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

THE FOLLOWING SQUARES ARE ALSO CLEANED DAILY:

EAGLE PARK SQUARE	OLNEYVILLE SQUARE
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 OF DEBRIS.

ALL THE MAIN ARTERIES IN THE CITY WERE CLEANED TWICE A WEEK. ALL THE STREETS IN THE OUTLYING SECTIONS OF THE CITY WERE INSPECTED AND CLEANED BY THE DAY AND NIGHT CLEANING CREWS SUPPLEMENTED BY THE MECHANICAL SWEEPERS. ADDITIONAL HIGHWAY DEPARTMENT CREWS WERE ASSIGNED TO ASSIST IN CLEANING THE OUTLYING SECTIONS DURING THE SPRING AND FALL MONTHS.

172 TRASH CANS WERE EMPTIED FOUR TIMES DAILY. 10 NEW CANS WERE PURCHASED TO REPLACE BROKEN CANS.

NINE MECHANICAL SWEEPERS WERE IN OPERATION, BOTH DAY AND NIGHT, DURING THE YEAR EXCEPT DURING THE WINTER MONTHS. ONE NEW SWEEPER WAS PURCHASED DURING THE FISCAL YEAR.

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.

THE FRONT END LOADER WAS USED TO PICK UP THE SWEEPER DUMPS AND LOAD THEM IN TRUCKS FOR DISPOSAL.

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	218 MILES
MACHINE BROOM SWEEPING	15,360 MILES
BEAT PATROL	10,295 MILES
HAND BROOM DISPOSAL	4,298 TONS
MACHINE BROOM DISPOSAL	12,009 TONS
STREET CONTAINER DISPOSAL	8,655 TONS

THE EXPENDITURES FOR THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$324,088.64
ITEM 1 SERVICES OTHER THAN PERSONAL	56,864.34
ITEM 2 MATERIALS AND SUPPLIES	<u>2,693.57</u>
TOTAL	\$383,646.55

#### SEWAGE PUMPING STATION

THIS SECTION IS CHARGED WITH THE OPERATION AND MAINTENANCE OF THREE SEWAGE PUMPING STATIONS IN THE CITY. THE MAIN SECTION 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 MILLION GALLONS A DAY. ELECTRIC POWER TO OPERATE THIS STATION IS SUPPLIED FROM THE GARBAGE INCINERATOR POWER 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	\$59,501.88
ITEM 1 SERVICES OTHER THAN PERSONAL	968.11
ITEM 2 MATERIALS AND SUPPLIES	<u>4,971.34</u>
TOTAL	\$65,521.33

TOTAL MONTHLY FLOW, IN MILLION GALLONS, FOR EACH STATION, 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>
<u>1958</u>				
OCTOBER	1,441.0	13.0	4.0	1,458.0
NOVEMBER	1,234.0	13.0	3.0	1,250.0
DECEMBER	1,269.0	12.0	3.0	1,284.0
<u>1959</u>				
JANUARY	1,088.0	11.0	3.0	1,102.0
FEBRUARY	1,186.0	11.0	2.5	1,199.5
MARCH	1,547.0	13.0	3.0	1,563.0
APRIL	1,563.0	13.0	3.0	1,579.0
MAY	1,327.0	11.0	3.0	1,341.0
JUNE	1,354.0	12.0	3.5	1,369.5
JULY	1,480.0	14.0	4.0	1,498.0
AUGUST	1,416.0	13.0	4.0	1,433.0
SEPTEMBER	<u>1,343.0</u>	<u>12.0</u>	<u>3.0</u>	<u>1,358.0</u>
TOTALS	16,248.0	148.0	39.0	16,435.0

NOTE: THE RECORDERS WERE REGISTERING TOO HIGH DURING THE FIRST SIX MONTHS OF THE YEAR.

FOLLOWING IS A MONTHLY TABULATION OF THE ELECTRICAL POWER FROM THE GARBAGE INCINERATOR USED AT THE ERNEST STREET STATION:

<u>1958</u>	<u>K.W.H.</u>
OCTOBER	194,777
NOVEMBER	184,879
DECEMBER	179,816
<u>1959</u>	
JANUARY	175,964
FEBRUARY	146,863
MARCH	217,148
APRIL	207,125
MAY	197,984
JUNE	179,746
JULY	222,168
AUGUST	213,667
SEPTEMBER	96,517
TOTAL	2,216,654

#### SEWAGE DISPOSAL WORKS

THIS SECTION TREATS AND DISPOSES OF ALL THE SEWAGE FROM THE TOWN OF NORTH PROVIDENCE, SEWAGE FROM THE TOWN OF JOHNSTON, AND WASTES FROM THE NARRAGANSETT BREWING COMPANY, CRANSTON, R. I. THE DISPOSAL PLANT IS LOCATED IN THE SOUTH-EASTERLY 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
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<u>SEWAGE FLOW</u>	<u>MILLION GALLONS</u>
PROVIDENCE	11,313.60
JOHNSTON	202.86
NORTH PROVIDENCE	23,926.30
CRANSTON (NARRAGANSETT BREWING CO.)	104.16
TOTAL SEWAGE FLOW	14,446.92

#### SUMMARY OF OPERATIONS

TOTAL FLOW OF SEWAGE	14,446.92 M.G.
AVERAGE DAILY FLOW	39.59 M.G.
MAX. DAILY FLOW (JULY 11, 1959)	84.42 M.G.
MIN. DAILY FLOW (NOV. 2, 1958)	13.65 M.G.
TOTAL AIR USED FOR AERATION	17,348.92 MIL. CU. FT.
LIQUID CHLORINE	604.27 TONS
FERRIC CHLORIDE USED	284.36 TONS
*LIME (AS KEMIKAL HYDRATE)	569.50 TONS
**LIME (AS CHEMLINE SLURRY)	214.73 TONS
TOTAL LIME USED	784.23 TONS
GRIT REMOVALS	394.36 TONS
GALS. PRIMARY SLUDGE PUMPED TO H. TANKS	558.02 M.G.
SLUDGE INCINERATED	25,316.18 TONS
ASH REMOVED FROM INCINERATOR	5,947.36 TONS

FUEL OIL USED FOR OPERATING SLUDGE INCINERATOR (#5)	69,200 GALS.
FUEL USED FOR HEATING SLUDGE INCINERATOR BLDG. (#2 OIL)	18,888 GALS.
FUEL USED FOR HEATING BLOWER HOUSE (#2 OIL)	4,785 GALS.
FUEL USED FOR HEATING FILTER BLDG.	14,369 GALS.
FUEL USED FOR HEATING ADM. BLDG.	4,139 GALS.
FUEL USED FOR HEATING GRIT BLDG.	4,074 GALS.
FUEL USED FOR HEATING P.S. P.S.	3,901 GALS.
FUEL USED FOR HEATING P.S. P.S. CHLORINE BLDG.	3,172 GALS.

\*USED ONLY IN CASES OF FAILURE OF SLURRY PUMPS AFTER JUNE 1959.

\*\*THE APPLICATION OF LIME AS CHEMLINE SLURRY WAS STARTED IN JUNE 1959.

#### ELECTRIC POWER USED FROM THE GARBAGE INCINERATOR

<u>1958</u>	<u>K.W.H.</u>
OCTOBER	164,300
NOVEMBER	164,300
DECEMBER	173,300
<u>1959</u>	
JANUARY	160,400
FEBRUARY	98,600
MARCH	141,700
APRIL	141,700
MAY	181,100
JUNE	270,100
JULY	217,500
AUGUST	160,000
SEPTEMBER	389,300
TOTAL	2,262,300

#### THE EXPENDITURES FOR THE YEAR WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$194,032.25
ITEM 1 SERVICES OTHER THAN PERSONAL	122,942.68
ITEM 2 MATERIALS AND SUPPLIES	138,860.18
ITEM 5 CAPITOL OUTLAY EQUIPMENT	302.08
TOTAL	\$456,137.19

REVENUE FOR THE YEAR WAS AS FOLLOWS:	31,099.42
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THE ALTERATIONS TO, AND THE CONSTRUCTION OF ADDITIONAL FACILITIES AT THE SEWAGE DISPOSAL WORKS BY THE BAYLOR CONSTRUCTION COMPANY WERE COMPLETED IN NOVEMBER 1959. IN OCTOBER 1958, MR. ARIEL THOMAS OF METCALF AND EDDY, ENGINEERS, BEGAN SUPERVISION OF THE OPERATION OF THE SEWAGE DISPOSAL WORKS IN ACCORDANCE WITH THE TERMS OF THE CONTRACT. THE NEW FACILITIES WERE OPERATED USING THE THREE METHODS OF OPERATION POSSIBLE—STEP AERATION, BIOADSORPTION PROCESS AND CONVENTIONAL AERATION. THE OPERATION EFFICIENCY WAS EVALUATED. OUTSTANDING INADEQUACIES WERE BROUGHT TO LIGHT IN THE EFFICIENCY OF THE CHICAGO BARMINUTORS, CERTAIN PHASES OF THE GRIT REMOVAL FACILITIES, THE EJECTOR PUMPS, AND THE ABILITY OF THE EXISTING EIMCO VACUUM FILTERS TO KEEP UP WITH THE VOLUME OF SOLIDS PRODUCED UNDER OPTIMUM METHODS OF TREATMENT. SOME DIFFICULTIES WERE ENCOUNTERED WITH THE REMOVAL OF THE ASH BUCKET ELEVATOR AT THE SLUDGE INCINERATOR AT TIMES OF MAXIMUM BURNING. THESE INEFFICIENCIES AND INADEQUACIES WERE STUDIED AND EVALUATED BY THE CONSULTING ENGINEERS, METCALF & EDDY, AND ENGINEERS OF THE PUBLIC WORKS DEPARTMENT AND RECOMMENDATIONS WERE MADE AND PLANS APPROVED FOR FURTHER IMPROVEMENTS TO THE SEWAGE DISPOSAL WORKS, APPLICATION OF WHICH WILL START SOMETIME IN NOVEMBER 1959.

DURING THE COURSE OF THE YEAR, THE ORIGINAL SNUDDERS, INSTALLED ON THE TWO NEW

ROOTS-CONNERSVILLE AIR BLOWERS, WHICH WERE RUPTURED BY THE LOOSENING OF INTERIOR GAFFLE PLATES AFTER A SHORT PERIOD OF OPERATION, WERE REPLACED WITH ONES MORE RUGGED IN CONSTRUCTION.

MODIFICATIONS OF THE PRESENT MODELS OF THE CHICAGO BARMINUTORS ARE IN RESEARCH AND WHEN SATISFACTORY WILL BE APPLIED TO THE MODELS AT THE SEWAGE DISPOSAL WORKS.

PLANT PERSONNEL ARE SHOWING ENCOURAGING RESULTS IN THEIR HANDLING AND MAINTAINING OF THE NEW EQUIPMENT. MINOR REPAIRS AND MAINTENANCE SUCH AS ROUTINE GREASING, DIS-SEMOLING AND REASSEMBLING OF PUMPS WHEN IT HAS BEEN NECESSARY TO INSTALL NEW SHAFTS, SHAFT SLEEVES, BEARINGS AND PACKING GLANDS, REPACKING OF PUMPS ETC. HAVE BEEN FAIRLY WELL HANDLED BY THE MAINTENANCE SECTION.

THE SLUDGE INCINERATOR WAS COOLED DOWN AND INSPECTED SEVERAL TIMES DURING THE FISCAL YEAR BY OPERATING PERSONNAL; AT SUCH TIMES FIRE BOXES WERE REPLACED AND LOOSE BRICKS FIXED BACK IN PLACE. THERE HAVE BEEN CHARACTERISTICS CHANGES IN THE SLUDGE SINCE THE ALTERATIONS (POSSIBLY BECAUSE OF INCREASED GREASE REMOVALS) WHICH HAVE RESULTED IN HOTTER TEMPERATURES, AND THE FORMATION OF A SLAG BARRIER AT THE OUTER CIRCUMFERENCE OF THE HEARTH SCRAPERS. UPON BREAKING UP, THIS SLAG BARRIER HAS A TENDENCY TO DLOCK UP THE DROP HOLES INTO THE NEXT HEARTH, AND ALSO PUT AN EXCESSIVE STRAIN ON THE ASH SCREW WHEN THE PIECES REACH THAT STAGE OF REMOVAL.

PLANT PERSONNEL HAVE ALSO COMPLETED SOME EXTERIOR AND INTERIOR PAINTING AND REPLACEMENT OF WINDOW GLASS IN THE VARIOUS PLANT BUILDINGS.

THE SLUDGE CONVEYOR FEED BELT ON THE TOP OF THE SLUDGE INCINERATOR WAS REPLACED, AND A VULCANIZED SPLICE MADE BY A U.S. RUBBER COMPANY REPRESENTATIVE ASSISTED BY PLANT PERSONNEL. AN EIGHTEEN FOOT SECTION OF THE SLUDGE CONVEYOR BELT SERVICING NOS. 3 AND 4, AND 5 AND 6 VACUUM FILTERS WAS ALSO REPLACED BY THE SAME PERSONNEL.

PROPER ADJUSTMENT OF THE BROOKS ROTOMETERS WHICH EVALUATE THE AMOUNT OF LIQUID CHLORINE BEING USED, ARE STILL BEING CONDUCTED BY B.I.F. INDUSTRIES AND BROOKS ROTOMETER.

#### 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 A MONTH. THE CITY IS DIVIDED INTO FOUR AREAS AND EACH AREA IS SUB-DIVIDED INTO TWENTY ROUTES.

A DRIVER AND TWO LABORERS ARE ASSIGNED TO EACH TRUCK. ALL MATERIAL COLLECTED IS DUMPED IN A CONTROLLED DUMP ON MANTON AVENUE. A BULLDOZER IS ASSIGNED TO THE DUMP TO MAINTAIN LEVEL FILLING AND A DUMP ATTENDANT PREVENTS THE DUMPING OF COMBUSTIBLE RUBBISH, THUS PREVENTING FIRES.

EIGHT TRUCKS 8-16 CU.YD. LOADPACKERS ARE USED FOR THE COLLECTIONS. THESE TRUCKS ARE RENTED FROM THE SANITATION SHOP AND STORES ON TERMINAL ROAD.

THIS SECTION ALSO COLLECTED NON-COMBUSTIBLE REFUSE FROM FIRE AND POLICE STATIONS, CITY BUILDINGS AND PUBLIC LIBRARIES.

THE TOTAL CUBIC YARDS COLLECTED FROM EACH AREA PER MONTH WAS AS FOLLOWS:





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 AND STATION POWER.

<u>1958</u>	<u>SEWAGE DISPOSAL</u>	<u>SEWAGE PUMPING</u>	<u>MUNICIPAL GARAGE</u>	<u>STATION POWER</u>	<u>TOTAL</u>
OCTOBER	164,300	194,700	923	94,000	454,000
NOVEMBER	164,300	184,879	921	91,600	441,700
DECEMBER	173,300	179,816	1184	94,700	449,000
<u>1959</u>					
JANUARY	160,400	175,964	1136	98,500	436,000
FEBRUARY	98,600	146,863	1137	89,400	336,000
MARCH	141,700	217,148	1152	95,000	455,000
APRIL	141,700	207,125	975	89,200	439,000
MAY	181,000	197,984	1016	88,900	469,000
JUNE	270,100	179,746	1054	87,100	538,000
JULY	217,500	222,168	932	84,400	525,000
AUGUST	160,000	213,647	733	85,000	459,400
SEPTEMBER	389,300	96,517	883	84,300	571,000
TOTAL	2,262,300	2,216,654	12,046	1,082,100	5,573,100

THE FOLLOWING IS THE TOTAL AMOUNT OF GARBAGE AND RUBBISH DISPOSED OF BY THIS DEPARTMENT, FROM OCTOBER 1958 TO SEPTEMBER 1959:

<u>1958</u>	<u>GARBAGE (TONS)</u>	<u>RUBBISH (TONS)</u>
OCTOBER	2777.10	2700.50
NOVEMBER	2599.10	3249.15
DECEMBER	2923.80	2825.00
<u>1959</u>		
JANUARY	2956.90	2216.00
FEBRUARY	2548.65	2000.00
MARCH	3056.00	2380.00
APRIL	2978.70	2360.00
MAY	2919.35	2214.60
JUNE	3017.55	2425.20
JULY	3092.70	2925.60
AUGUST	3129.25	2473.30
SEPTEMBER	2939.00	2449.25
TOTAL	34,938.10	30,218.60

DAILY AVERAGE FOR COLLECTION BASED ON 313 WORKING DAYS 111.6 TONS  
DAILY AVERAGE FOR DISPOSAL BASED ON 365 WORKING DAYS 170.5 TONS

<u>TOTAL POWER GENERATED</u>	<u>K.W.H.</u>
AVERAGE DAILY DISTRIBUTED LOAD	12,304
AVERAGE DAILY DISTRIBUTED LOAD TO SEWAGE DISPOSAL WORKS	6,198
AVERAGE DAILY DISTRIBUTED LOAD TO SEWAGE PUMPING STATION	6,106
AVERAGE DAILY DISTRIBUTED LOAD TO MUNICIPAL GARAGE	33
AVERAGE DAILY DISTRIBUTED LOAD TO GARBAGE INCINERATOR	2,964

THE MONTHLY ASH TOTALS FROM THE INCINERATOR DURING THE YEAR WERE AS FOLLOWS:

<u>1958</u>	<u>TONS</u>
OCTOBER	1,014.00
NOVEMBER	905.00
DECEMBER	1,022.00
<u>1959</u>	
JANUARY	972.50
FEBRUARY	870.00
MARCH	945.50
APRIL	922.50
MAY	900.50
JUNE	885.50
JULY	1,029.50
AUGUST	898.50
SEPTEMBER	957.00
TOTAL	11,322.50

THE FOLLOWING IS A SUMMARY OF THE REPAIR WORK PERFORMED IN THE COURSE OF THE FISCAL YEAR IN INCINERATOR PLANTS Nos. 1 AND 2:

A COMPLETE OVERHAUL JOB WAS DONE ON STEAM TURBINE No.1. THIS TURBINE IS NOW ON THE LINE AND IS IN EXCELLENT RUNNING ORDER. STEAM TURBINE No.2 IS NOW BEING OVERHAULED AND WILL BE BACK IN SERVICE BY THE END OF THE YEAR. THE WORK ON THE TURBINES WAS UNDER THE SUPERVISION OF A WESTINGHOUSE ENGINEER ASSISTED BY INCINERATOR EMPLOYEES.

THE ASH CONVEYOR IN PLANT No.1 WAS REPAIRED A NUMBER OF TIMES DURING THE COURSE OF THE YEAR AT WHICH TIMES NEW PADDLES AND SECTIONS OF CONVEYOR CHAIN WERE INSTALLED.

A FORCED DRAFT MACHINE IN PLANT No.2 WAS DISMANTLED AND NEW BEARINGS INSTALLED.

A NUMBER OF TIMES DURING THE YEAR BRICK REPAIR JOBS WERE MADE IN THE INCINERATOR AND COMBUSTION CHAMBER OF PLANT No.2 BY INCINERATOR EMPLOYEES. THE IRON WORK IN THE INCINERATOR AND THE BRICK WALLS IN THE FUREROOM OF PLANT No.2 WERE WIRE BRUSHED AND PAINTED.

TWO BOILER GATES WERE RE-BUILT AND NEW RUNWAYS FOR SAME WERE INSTALLED IN PLANT No.1.

THREE BOILER GATES WERE RE-BUILT AND NEW RUNWAYS FOR SAME WERE INSTALLED IN PLANT No.2. SIX HOPPER CHARGING DOORS WERE RE-BUILT AND INSTALLED IN PLANT No.2.

THE ASH CHUTE IN PLANT No.1 WAS OVERHAULED, WIRE BRUSHED AND PAINTED. THE CIRCULATING WATER PUMP WAS REPAIRED AND PUT BACK IN GOOD WORKING ORDER.

ELEVEN BOILER TUBES IN BOILER No.3 WERE IN POOR CONDITION. THESE TUBES WERE REMOVED AND REPLACED WITH NEW ONES. TWO NEW SOOT BLOWERS WERE INSTALLED. ONE IN BOILER No.1 AND ONE IN BOILER No.2. THE REST OF THE SOOT BLOWERS ARE IN POOR CONDITION AND SHOULD BE REPLACED.

REPAIR JOBS ON BOTH ELECTRIC CRANES WERE DONE DURING THE YEAR BY INCINERATOR EMPLOYEES.

THE WATER JACKET AROUND THE HOPPERS IN PLANT No.1 SPRUNG A LEAK AND A WELDING JOB WAS NECESSARY TO REPAIR SAME.

### SANITATION SHOPS AND STORES

THE SHOPS AND STORES ARE 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 SHOPS 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  $\frac{1}{2}$  TON CAPACITY.
- 6 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.

DURING THE PAST YEAR FOUR NEW 16 CUBIC YARD GARBAGE COLLECTION TRUCKS AND 2 - 16 CUBIC YARD REFUSE COLLECTION TRUCKS WITH LOADPACKER TYPE BODIES WERE PURCHASED.

### SANITATION DIVISION REVENUE

THE REVENUE FOR THIS DIVISION DURING THE FISCAL YEAR WAS AS FOLLOWS:

SEWAGE PUMPING STATION	\$141.60
SEWAGE DISPOSAL SECTION	31,099.42
GARBAGE COLLECTION AND DISPOSAL SECTION	4,513.57
REFUSE COLLECTION AND DISPOSAL SECTION	470.00

### RECOMMENDATIONS

BOTH STEEL SMOKE STACKS IN PLANT NO.1 ARE IN POOR CONDITION DUE TO CORROSIVE ACTION. IT IS SUGGESTED THAT BOTH STACKS BE RE-BUILT FROM THE ROOF UP. APPROXIMATE LENGTH OF EACH STACK IS 30 FEET.

THE FLASHING AROUND THE BRICK STACK IN PLANT NO.2 SHOULD BE REPLACED WITH NEW MATERIAL.

THE ELECTRIC CRANE IN PLANT NO.1 HAS BEEN IN SERVICE FOR (22) YEARS. IT IS BADLY IN NEED OF AN OVERHAUL JOB. THE EMPLOYEES OF THIS DEPARTMENT COULD DO THE WORK UNDER THE SUPERVISION OF AN ENGINEER FROM THE HARNISCHFEGGER CRANE CORPORATION.

THE OVERHEAD DOORS IN FRONT OF BOTH GARBAGE PITS ARE OUT OF ORDER AND SHOULD BE REPAIRED.

A COMPLETE SET OF SUPERHEATER TUBES SHOULD BE INSTALLED IN BOILERS NOS. 1 AND 2.

ABOUT HALF OF THE PRE-HEATER TUBES IN BOILERS NOS. 3 AND 4 SHOULD BE REPLACED AS THEY ARE IN POOR CONDITION.

IT IS SUGGESTED THAT A CHARGE BE MADE FOR THE COMMERCIAL TRUCKS USING THE DISPOSAL PLANT. THE REVENUE FROM THIS WOULD HELP DEFRAY THE OPERATING COSTS.

ABOUT HALF OF THE CONDENSER TUBES IN BOTH CONDENSERS SHOULD BE REPLACED. THE TUBES COULD BE PURCHASED AND INSTALLED BY OUR EMPLOYEES.

THE GARBAGE PIT AREA AT THIS PLANT SHOULD BE ENLARGED. WITH THE INCREASED STORAGE AREA A SAVING ON FUEL OIL WOULD BE MADE WHEN THERE IS A SHORTAGE OF GARBAGE AND REFUSE DUE TO SNOW STORMS.

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 SEWERAGE SYSTEM THAT AMPLE TIME WILL BE AVAILABLE FOR PROTECTING PLANT PERSONNEL FROM RADIOACTIVITY.

EJECTOR SUMP PUMPS SHOULD BE REPLACED WITH PUMPS THAT WILL PROPERLY PERFORM THE FUNCTIONS FOR WHICH THEY WERE INTENDED.

RESPECTFULLY SUBMITTED,

HOWARD F. CARPENTER  
CHIEF OF SANITATION DIVISION.

## HARBOR DIVISION

MR. CHARLES F. McELROY,  
DIRECTOR OF PUBLIC WORKS,  
CITY HALL, PROVIDENCE, R. I.

DEAR SIR:

FOLLOWING IS THE ANNUAL REPORT COVERING ACTIVITIES OF THE HARBOR  
DIVISION FOR THE YEAR ENDED SEPTEMBER 30, 1959:

### MUNICIPAL DOCK

A NEWLY FORMED CORPORATION, THE PROVIDENCE DOCK, LEASED AN AREA AT THE SOUTH END OF THE WHARF FOR THE PURPOSE OF TRANSSHIPPING COAL TO THE LOCAL POWER COMPANY AND PAPER MILLS IN THE MAINE AREA. OVER 112,000 TONS OF COAL WERE RECEIVED AND TRANSSHIPPED. THE PROVIDENCE DOCK IS NOW EVALUATING THE OPERATION AND IF IT IS FOUND TO BE PROFITABLE, IT WILL BE CONTINUED AND ENLARGED. THERE IS ALSO A POSSIBILITY THAT IRON ORE WILL BE ADDED.

FOREIGN CEMENT MOVEMENT INCREASED OVER 200 PER CENT CREATING A SIZEABLE PAYROLL FOR THE LONGSHOREMEN AND ADDITIONAL REVENUE FOR THE CITY.

AT THIS WRITING WE ARE CONFERRING WITH TWO PROSPECTS. IF WE ARE FORTUNATE IN COMPLETING A DEAL WITH THESE FIRMS IT SHOULD GREATLY INCREASE OUR ACTIVITIES AND BRING CONSIDERABLE BENEFITS TO THE CITY IN GENERAL.

AGAIN WE SHOW AN INCREASE IN REVENUE OF APPROXIMATELY ELEVEN THOUSAND DOLLARS (\$11,000) OVER THE 1957-1958 FISCAL YEAR.

### CARGO HANDLED

#### SHIPPED

6106 TONS SCRAP IRON  
730 TONS SCRAP ALUMINUM  
21670 TONS GASOLINE  
9628 TONS FUEL OIL  
3523 TONS KEROSENE

#### RECEIVED

54035751 BMF. LUMBER  
3466 TONS GENERAL CARGO  
112900 TONS COAL  
53975 TONS CEMENT  
1114 TONS PHOSPHATE  
258816 TONS GASOLINE  
153345 TONS FUEL OIL  
33398 TONS KEROSENE  
94647 TONS TUBE OIL

### REVENUE

LEASE OF STORAGE WAREHOUSE	\$41,125.00
LEASE OF LAND	74,309.38
WHARFAGE	72,412.84
TRACKAGE	7,302.00
WATER	3,590.95
DOCKAGE	18,413.02
STORAGE	11,735.47
MISCELLANEOUS	5,959.90
	<u>\$234,848.56</u>

EXPENDITURES

ITEM 0	PERSONAL SERVICES	\$32,819.60
ITEM 1	SERVICES OTHER THAN PERSONAL	6,309.10
ITEM 2	MATERIALS AND SUPPLIES	<u>1,450.70</u>
	TOTAL	\$40,579.40

CARGO HANDLED

RECEIVED

<u>PRODUCT</u>	<u>FIRST</u> <u>QUARTER</u>	<u>SECOND</u> <u>QUARTER</u>	<u>THIRD</u> <u>QUARTER</u>	<u>FOURTH</u> <u>QUARTER</u>	<u>TOTAL</u>
GASOLINE	441146	395996	528242	474031	1839415
FUEL OIL	989273	1207588	743881	777168	3717910
KEROSENE	88377	164961	77767	65486	396591
COAL	189516	187223	157014	229145	762898
LUMBER	1693	25658	25391	9236	61978
CEMENT	1768	3615	17508	25324	48215
ASPHALT	9317	18949		3070	31366
CHEMICALS	3300				3300
LUBRICATING OIL	947	7685	17836	9674	36142
DEISEL OIL	5928	15534	1800	5324	28666
NAPTHA	740			2159	2899
GENERAL CARGO		899	701		1600
TOTALS	1732005	2028108	1570220	1600617	6930950

SHIPPED

GASOLINE	63436	74007	78175	215618
FUEL OIL	67178	62270	32914	162362
KEROSENE	5644	9442	8804	23890
COAL	8619	7017	2649	18285
ASPHALT	1712	11016	119073	31801
GENERAL CARGO	730			730
SCRAP			9473	9473
LUBRICATING OIL			370	370
DEIDEL OIL			3436	3486
	147319	163762	154944	466025

TOTAL RECEIVED	6,930,950 TONS
TOTAL SHIPPED	<u>466,025 TONS</u>
TOTAL	7,396,975 TONS

REVENUE - \$18.36

EXPENDITURES

ITEM 0	PERSONAL SERVICES	\$4,238.36
ITEM 1	SERVICES OTHER THAN PERSONAL	<u>152.66</u>
ITEM 2	MATERIALS AND SUPPLIES	<u>23.51</u>
	TOTAL	\$4,414.52

RESPECTFULLY SUBMITTED

JAMES J. FISHER  
PORT AGENT.

H-2

PUBLIC SERVICE DIVISION

MR. CHARLES F. McELROY  
DIRECTOR OF PUBLIC WORKS,  
CITY HALL, PROVIDENCE, R. I.

DEAR SIR:

I RESPECTFULLY SUBMIT THE FOLLOWING REPORT FOR THE PUBLIC SERVICE  
DIVISION FOR THE FISCAL YEAR 1958-1959:

POLICE REPORT ON OUTAGES

- (1) LIGHTS OUT ALL NIGHT, BUT ONLY DEDUCTED AT POLICE REPORT OBSERVATION TIME.
- (2) LIGHTS OUT SUCCESSIVE NIGHTS, NO REPORT OF OUTAGES.

ARTICLE #8 PROPOSED CONTRACT AGREEMENT CITY OF PROVIDENCE - NARRAGANSETT ELECTRIC CO.  
(STREET LIGHTING)

THE POLICE DEPARTMENT SHALL REPORT DAILY TO SAID PUBLIC SERVICE ENGINEER ALL  
OUTAGES AND THE DURATION THEREOF SO FAR AS OBSERVED OR KNOWN BY MEMBERS OF SAID  
DEPARTMENT. A DEDUCTION SHALL BE MADE FROM THE MONTHLY PAYMENT FOR SUCH LAMPS EQUAL  
TO THE PORTION OF THE ANNUAL PRICE OF SUCH LAMP, AS SHALL BE EQUAL TO THE RATIO  
THAT SUCH TIME OF OUTAGE BEARS TO THE TOTAL ANNUAL BURNING TIME SET FORTH IN  
PARAGRAPH #13 HEREOF FOR SUCH LAMPS.

NO DEDUCTION IS ALLOWED FOR CURRENT ORDERED STOPPED IN CASE OF FIRE OR OTHER  
DANGER BY ANY OFFICIAL OF THE CITY IN THE PERFORMANCE OF HIS DUTY, OR LAMPS OUT  
THROUGH MALICIOUS BREAKAGE FOR SUCH TIME AS IS NECESSARY TO REPLACE OR REPAIR THE  
SAME SET FORTH IN PARAGRAPH #13 HEREOF FOR SUCH LAMP.

NEIGHBORHOOD		COST PER YEAR	COST PER NIGHT
OVERHEAD	1000 LUMENS	\$16.23	\$ .04
UNDERGROUND	1000 LUMENS	29.26	.08
OVERHEAD	2500 LUMENS	32.45	.09
OVERHEAD	15000 LUMENS MERCURYS	73.82	.20
UNDERGROUND	15000 LUMENS MERCURYS	93.82	.26
	(DOWN TOWN)		

ROGER WILLIAMS PARK

UNDERGROUND 1000 LUMEN $\frac{1}{2}$ NIGHT	25.20	.07
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CITY TAXPAYERS ARE CONSTANTLY REPORTING LIGHTS OUT FOR ONE OR SUCCESSIVE NIGHTS  
TO EITHER THIS DEPARTMENT OR THE UTILITY COMPANY WHICH DO NOT SHOW ON OUR OUTAGE  
SHEETS. SO, CONSEQUENTLY, THEY ARE NOT DEDUCTABLE.

WESTERN UNION TELEGRAPH COMPANY

CITY PLANT, PROVIDENCE, R. I.

NUMBER OF POLES	NONE
NUMBER OF POLES JOINTLY OWNED	NONE
NUMBER OF FEET OF U.G. CONDUIT (TRENCH FEET)	276.
NUMBER OF FEET OF U.G. CONDUIT	922.9
NUMBER OF MILES OF U.G. CABLE	.743
NUMBER OF MILES OF WIRE IN U.G. CABLE	65.12



NUMBER OF FEET OF TWISTED PAIR:

(A) ON LICENSED ATTACHMENTS PRIVILEGED TO PURCHASE THE POLES OF OTHER COMPANIES	6,878'
(B) ACROSS STREETS	1,625'
(C) OVER PRIVATE ALLEYS	500'
MANHOLES OWNED	1

NARRAGANSETT ELECTRIC COMPANY

TOTAL NUMBER OF WOOD POLES (INCLUDING JOINTLY OWNED BUT NOT INCLUDING JOINTLY USED, WITH NO OWNERSHIP)	18,928
TOTAL NUMBER JOINTLY OWNED POLES WITH N.E.T. & T.CO.	13,718
TOTAL NUMBER IRON POLES IN CITY:	
UNDERGROUND STREET LIGHT STANDARDS	2,194
ORNAMENTAL INCANDESCENTS (MERCURY VAPOR)	2,190
GOOSE NECKS	4
TOTAL NUMBER MILES CONDUIT (TRENCH FEET) IN CITY	83.22
TOTAL NUMBER MILES CONDUIT (DUCT FEET) IN CITY	689,321
TOTAL NUMBER UNDERGROUND CABLE IN CITY	921.54
TOTAL NUMBER MILES EQUIVALENT SINGLE UNDERGROUND CONDUCTOR	1261.67
TOTAL NUMBER AERIAL CABLE	272.23
TOTAL NUMBER EQUIVALENT SINGLE CONDUCTOR AERIAL CABLE	750.77
TOTAL NUMBER AERIAL OPEN WIRE	4003.72
TOTAL NUMBER SERVICE PIPES OR LATERALS	69.03
TOTAL NUMBER COMMERCIAL TRANSFORMERS IN CITY	5454.
TOTAL NUMBER CUSTOMERS SUPPLIED DIRECTLY BY U.G. CONNECTION	26760
TOTAL NUMBER CUSTOMERS SUPPLIED DIRECTLY BY O.H. CONNECTION	54121
TOTAL NUMBER METERS INSTALLED IN CITY	80881
APPROXIMATE TOTAL NUMBER OF 1Ø 2 WIRE 115 V. METERS IN CITY	52921
APPROXIMATE TOTAL NUMBER OF 1Ø 3 WIRE 115/230 V. METERS IN CITY	21650
APPROXIMATE TOTAL NUMBER OF 3Ø 3 WIRE 115 V. METERS IN CITY	22
APPROXIMATE TOTAL NUMBER OF 3Ø 3 WIRE 250 V. METERS IN CITY	260
TOTAL NUMBER OF 3Ø 4 WIRE 120/208 V. METERS IN CITY	1834
TOTAL NUMBER OF 1Ø 3 WIRE 120/208 V. METERS IN CITY	2540
TOTAL NUMBER OF D.C. 2 WIRE AND 3 WIRE 250 AND 250/500 V. METERS IN CITY	79
APPROXIMATE TOTAL NUMBER OF 3Ø 3 WIRE 575 V. METERS IN CITY	1575

PROVIDENCE GAS COMPANY

TOTAL GAS SERVICES IN PROVIDENCE	38,943
MILES OF MAIN:	
L.P.	397 MILES 3,371 FEET
H.P.	6 MILES 2,433 FEET
NATURAL GAS	1 MILE 1,800 FEET
TOTAL	405 MILES 2,324 FEET OR 405.4 MILES
GAS HOLDERS	4
NUMBER OF METERS (ACTIVE)	58,535
DECREASE IN GAS SERVICES 9/30/58 - 9/30/59	7
INCREASE IN MILES OF MAIN 9/30/58 - 9/30/59	2.6
DECREASE IN NUMBER OF METERS 9/30/58 - 9/30-59	1,192

NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY

TOTAL NUMBER WOOD POLES (INCLUDING JOINTLY USED, BUT NOT INCLUDING THOSE JOINTLY USED WITH NO OWNERSHIP)	16,928
TOTAL NUMBER OF JOINTLY USED POLES WITH N.E. COMPANY	13,718
TOTAL NUMBER MILES MAIN CONDUIT (TRENCH FEET)	59.78
TOTAL NUMBER MILES U.G. CABLE	250.46
TOTAL NUMBER MILES AERIAL CABLE	226.90
TOTAL WOOD TERMINAL BOXES ON POLES	208
APPROXIMATE NUMBER OF TELEPHONES SUPPLIED DIRECTLY BY UNDERGROUND OF BLOCK DISTRIBUTION	48,797
APPROXIMATE NUMBER OF TELEPHONES SUPPLIED DIRECTLY BY OVERHEAD LINES ON HIGHWAYS	43,110

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)	63
ADDITIONAL MILES OF CABLE - U.G. AND AERIAL	1.92
INCREASE IN THE NUMBER OF TELEPHONES IN USE	821

ESTIMATE

THIS REPORT COVERS PLANT STATISTICS AS OF SEPTEMBER 30, 1959.

TRAFFIC ENGINEERING DEPARTMENT

TOTAL NUMBER OF TRAFFIC SIGNAL HEADS	1064
TOTAL NUMBER OF TRAFFIC SIGNAL POLES	567
TOTAL NUMBER OF TRAFFIC SIGNAL CONTROLLERS (LOCAL)	154
TOTAL NUMBER OF TRAFFIC SIGNAL CONTROLLERS (MASTER)	5
TOTAL NUMBER OF FEET OF UNDERGROUND DUCTS AND LATERALS	62.275
TOTAL NUMBER MILES OF UNDERGROUND CABLE	26.7
TOTAL NUMBER MILES OF AERIAL CABLE	4.7
TOTAL NUMBER MILES OF EQUIVALENT SINGLE CONDUCTOR (UNDERGROUND CABLE)	135.7
TOTAL NUMBER MILES OF EQUIVALENT SINGLE CONDUCTOR (AERIAL CABLE)	22.2

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 AND TELEGRAPH COMPANY AND THE CITY OF PROVIDENCE FIRE DEPARTMENT AS FOLLOWS:

TOTAL NUMBER OF FEET OF DUCT SPACE BELONGING TO THE NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY ASSIGNED TO CITY USE	52,530
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TOTAL NUMBER OF FEET OF DUCT SPACE BELONGING TO THE FIRE DEPARTMENT OF THE CITY OF PROVIDENCE	3,040
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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
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DURING THE LAST FISCAL YEAR, NEW TRAFFIC SIGNAL INSTALLATIONS WERE COMPLETED AT THE INTERSECTION OF UNION AVENUE AND SERVICE ROAD #1 AND AT HARTFORD AVENUE AND BODEL AVENUE.

THE SIGNALS AT THE INTERSECTION OF HUNTINGTON AVENUE AND UNION AVENUE WERE REMOVED FROM SERVICE IN CONJUNCTION WITH THE NEW CONSTRUCTION DETOUR SYSTEM. MODIFICATIONS WERE ALSO INCORPORATED AT THE EXISTING SIGNAL SYSTEM AT RESERVOIR AVENUE AND PONTIAC AVENUE.

WITH THE CONSTRUCTION OF THE HUNTINGTON EXPRESSWAY, TEMPORARY SIGNALS WILL BE INSTALLED AT UNION AVENUE AND SERVICE ROAD No.1 FOR THE TEMPORARY DETOURING OF TRAFFIC.

#### DEPARTMENT OF PUBLIC SAFETY

#### INVENTORY - SIGNAL CONSTRUCTION - FIRE ALARM DIVISION - POLICE SIGNAL

	<u>TOTAL</u>	<u>AERIAL</u>	<u>U.G.</u>	<u>DOOR TYPES</u> <u>QUICK ACTION</u>	<u>KEY</u>	<u>KEYLESS</u>
FIRE ALARM BOXES	928	564	365	906	9	13
CITY OWNED	665	403	262	665	0	0
PRIVATELY OWNED	263	161	102	241	9	13
POLICE BOXES	167	103	64			
TOTAL NUMBER OF ALL BOX AND CABLE PEDESTALS						333
TOTAL NUMBER OF ALL FIRE ALARM BOX PEDESTALS						231
TOTAL NUMBER OF ALL POLICE BOX PEDESTALS						67
TOTAL NUMBER OF ALL CABLE PEDESTALS ONLY						35
TOTAL NUMBER OF MILES OF UNDERGROUND CABLE						85.15
TOTAL NUMBER OF MILES OF PARKWAY CABLE						1.47
TOTAL NUMBER OF MILES OF AERIAL CABLE						3.52
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR U.G.						1285.40
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR AERIAL						129.30
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR PARKWAY						6.42
TOTAL FOOTAGE OF ALL UNDERGROUND DUCTS AND LATERALS OWNED BY THE CITY						3545.6
TOTAL NUMBER OF POLES OWNED BY THE FIRE ALARM DIVISION						37
INCREASE IN THE NUMBER OF FIRE ALARM BOXES OWNED BY THE CITY						2
INCREASE IN THE NUMBER OF FIRE ALARM BOXES OWNED PRIVATELY						7

#### STREET LIGHTING SUMMARY

GOOD STREET LIGHTING IS, IN OUR DAY, A NECESSARY ADJUNCT TO THE PROGRESS OF OUR CITY AND THE WELFARE OF OUR CITIZENS. THE POLICY OF THIS DIVISION HAS BEEN, AND WILL BE, TO SEE THAT THE FULLEST POSSIBLE VALUE IS DELIVERED FOR EVERY DOLLAR EXPENDED FOR THIS PURPOSE, BY PROVIDING PROVIDENCE WITH THE MOST MODERN AND EFFECTIVE STREET LIGHTING AVAILABLE.

SINCE THE PRIMARY PURPOSE OF GOVERNMENT IS TO PROTECT THE LIVES AND PROPERTY OF ITS CITIZENS, OUR EFFORTS, IN THE FIELD OF STREET LIGHTING, HAVE BEEN DIRECTED ALONG THE SAME PATH, AND WITH CONSIDERABLE SUCCESS. THE POWERFUL MODERN LIGHTING, INSTALLED ON MANY OF OUR STREETS, HAS REDUCED NIGHT-TIME TRAFFIC ACCIDENTS, MADE PERSON AND PROPERTY SAFER ON OUR STREETS AND REDUCED THE BURDEN BORNE BY OUR POLICE AND FIRE DEPARTMENTS. IN TWO AREAS IT HAS GREATLY IMPROVED BUSINESS CONDITIONS BY ELIMINATING DARK CORNERS AND SHADOWS, WHICH GAVE COVER TO MUGGERS AND KINDRED CRIMINALS.

WE FEEL THAT OUR IMPROVED STREET LIGHTING PLAYED AN IMPORTANT PART IN ENABLING THE TRAFFIC ENGINEERING DIVISION TO GAIN NATIONAL RECOGNITION FOR TRAFFIC SAFETY ON OUR STREETS.

DOWNTOWN PROVIDENCE STREET LIGHTING IS ALMOST ENTIRELY CONVERTED TO 15,000 LUMEN MERCURY VAPOR LUMINARIES OF MODERN DESIGN. THESE CAN BE CONVERTED TO A HIGHER LIGHT INTENSITY, IF NECESSARY. WESTMINSTER STREET IS TO BE RELAMPED WITH 23,000 LUMEN LIGHTS IN CO-OPERATION WITH THE DOWNTOWN BUSINESS MEN TO SEE IF THIS ADDED ILLUMINATION WILL STIMULATE NEW BUSINESS GROWTH.

PLANS TO RE-LIGHT THE STREETS, RADIATING FROM THE DOWNTOWN BUSINESS AREA, WITH MERCURY VAPOR LUMINARIES OF INTERMEDIATE INTENSITY ARE UNDER STUDY.

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 NOW 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 NEW TYPE OF TREE PLANTING WITH EXCELLENT RESULTS. SOME OF OUR EXISTING NEIGHBORHOOD STREETS, AT THE PRESENT TIME, ARE IMPOSSIBLE TO ADEQUATELY STREET LIGHT AT ALL BECAUSE OF TREE FOLIAGE GROWN FROM TREES ON BOTH SIDES OF THE STREET EXTENDING OUT OVER THE CENTER LINE OF THE HIGHWAYS.

THIS YEAR, BY PROGRESSIVENESS, WE MEAN THE LIGHTING OF THE NEW HUNTINGTON EXPRESSWAY AND THE RELIGHTING OF THE NEW WEST RIVER AREA WHICH WILL CONSTITUTE HEAVY INDUSTRIAL LOCATIONS, AND THREE NEW PLANNED STREETS. THESE NEW LOCATIONS SHALL BE RELIGHTED WITH FEASIBLE INTENSITY AND MODERN LUMINARIES. THE NEXT AREA TO BE PLANNED AND REDEVELOPED POSSIBLY IS THE LIPPITT HILL SECTION AND WE SHALL ADEQUATELY RELIGHT THAT SECTION WHEN THE TIME ARRIVES.

INCREASED FIELD WORK WITH BOTH THE UTILITY COMPANIES ON POLE LOCATIONS, SUCH AS DRIVEWAYS, REMOVALS, SETTINGS, UNDERGROUND CONDUIT WORK, WHILE OUR OWN STREET LIGHT PETITIONS WITH THEIR NECESSARY FIELD WORK AS WELL AS SIGN INSPECTIONS, IN REGARD TO OVERHEAD LINE CLEARANCE, HAS LIMITED MY OFFICE ROUTINE.

CONSEQUENTLY, IT WOULD SEEM ADVISABLE AGAIN TO RECOMMEND TO THE DEPARTMENT THAT THE EXISTING CLERKS' RATING, WHICH IS THE ONLY PERSONNEL IN THE ENTIRE STREET LIGHTING DIVISION BE ELEVATED TO AN INSPECTORS RATING AS THE QUALITY OF THE POSITION JUSTIFIES; ALSO, AN OFFICE CLERK BE ADDED IN THE STREET LIGHTING DEPARTMENT TO MAINTAIN AND KEEP UP TO DATE CARD FILES, MAP FILES AND OUTAGE RECORDS SO THAT OUR DEPARTMENT CAN WORK IN CLOSER PROXIMITY AND MORE EFFICIENTLY WITH BOTH UTILITY COMPANIES.

VERY TRULY YOURS,

PETER J. HICKS, JR.  
PUBLIC SERVICE ENGINEER.