
Annual Report
of the
Department of Public Works

FOR THE FISCAL YEAR

1960 -- 1961

CITY OF

PROVIDENCE, RHODE ISLAND

DECEMBER 31, 1961

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, 1961 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
FAMILY AND BUSINESS RELOCATION SERVICE	

CONTRACT WORK WAS COMPLETED ON THE FOLLOWING PROJECTS:

"BUILDING OF SEWERS IN SUNDRY STREETS" BY FANNING & DOORLEY CONST. COMPANY.
"CONSTRUCTION OF HIGHWAYS IN SUNDRY STREETS" BY NARRAGANSETT IMPROVEMENT COMPANY.
"FURNISHING AND INSTALLING A COMPLETE TWO-WAY RADIO SYSTEM" BY THE GENERAL ELECTRIC COMPANY.
"RECONDITIONING OF VACUUM FILTERS" AT SEWAGE TREATMENT PLANT BY KOMLINE-SANDERSON ENGINEERING CORPORATION.

CONTRACT WORK WAS IN PROGRESS ON THE FOLLOWING PROJECTS:

"CONSTRUCTION OF PUBLIC WORKS OFFICE BUILDING AND GARAGE" BY JOSEPH P. FLYNN.
"PUBLIC WORKS' HIGHWAY STORAGE BINS AND CONVEYING EQUIPMENT" BY CONVEYORS, INC.

PLANS AND SPECIFICATIONS FOR THE ABOVE PROJECTS WERE PREPARED BY KENT, CRUISE & ALDRICH, ENGINEERS.

"FURNISHING AND INSTALLING A SYSTEM OF OVERFIRE AIR JETS IN GARBAGE INCINERATOR UNIT NO. 2" BY JOHNSON AND MAYLOR CO. INC.

PLANS AND SPECIFICATIONS PREPARED BY METCALF & EDDY FOR "IMPROVEMENTS AT MAIN SEWAGE PUMPING STATION, RECONDITIONING OF VACUUM FILTERS AND MISCELLANEOUS IMPROVEMENTS AT FIELDS POINT SEWAGE TREATMENT PLANT" INCLUDED THE FOLLOWING TWO PROJECTS:

"IMPROVEMENTS AT SEWAGE TREATMENT PLANT" BY THE ARDSLEY CONST. CO. INC AND A.C. KAESTNER, INC.

"FURNISHING AND INSTALLING 2,300 VOLT SWITCHBOARD AT SEWAGE PUMPING STATION" BY THE COKEN COMPANY.

"BULKHEAD EXTENSION AT THE MUNICIPAL WHARF" BY THE M.A. GAMMINO CONST. CO.
PLANS AND SPECIFICATIONS FOR THIS PROJECT WERE PREPARED BY FENTON G. KEYES ASSOCIATES.

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

"RESURFACING OR RECONSTRUCTION OF HIGHWAYS" BY THE M.A. GAMMINO CONST. CO.

"BUILDING OF SEWERS IN SUNDRY STREETS" BY THE V.F. CAPALDI CONST. CORP.

HIGHWAY CONSTRUCTION AND RECONSTRUCTION CONSISTED OF THE CONSTRUCTION WITH ASPHALTIC CONCRETE ON A PENETRATED STONE BASE OF 19,468 SQUARE YARDS OF PAVEMENT BY CONTRACT; THE RESURFACING WITH SHEET ASPHALT AND ASPHALTIC CONCRETE OF 67,824 SQUARE YARDS OF PAVEMENT BY CONTRACT; AND REPAIRS TO AND SURFACING WITH ASPHALTIC CONCRETE OF 148,109 SQUARE YARDS OF PAVEMENT BY THE PUBLIC WORKS HIGHWAY FORCES.

NEW SEWER CONSTRUCTION, BY CONTRACT, CONSISTED OF THE BUILDING OF .0539 MILES OF MAIN SEWERS, TOGETHER WITH DRAINS TO CURB AND DRAINAGE STRUCTURES.

THE WORK ON THE BULKHEAD EXTENSION AT THE MUNICIPAL DOCK SHOULD BE COMPLETED DURING THE SUMMER OF 1962, AT WHICH TIME SEVERAL ACRES OF LAND WILL BE AVAILABLE FOR LEASE.

ALTHOUGH REVENUE FROM THE ACTIVITIES AT THE DOCK CONTINUES TO INCREASE, A MARKED INCREASE SHOULD RESULT FROM RENTALS AND SERVICE CHARGES, WITH THE LEASING OF THIS ADDITIONAL LAND.

THIS DEPARTMENT HAS RENDERED ASSISTANCE TO VARIOUS CITY DEPARTMENTS AND OUTSIDE AGENCIES, INCLUDING THE PARK, RECREATION, PUBLIC WELFARE, TRAFFIC ENGINEERING, REDEVELOPMENT, PUBLIC SAFETY, WATER AND HEALTH DEPARTMENTS.

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

I AM VERY GRATEFUL FOR AND APPRECIATIVE OF THE SPLENDID COOPERATION EXTENDED ME BY THE CITY COUNCIL COMMITTEE ON PUBLIC WORKS, COMPRISED OF CHAIRMAN RALPH MATERA, ANDREW F. EGAN, THOMAS L. PAYNE, PETER K. ROSEDALE AND ROBERT H. I. GODDARD, JR.

I ALSO WISH TO EXPRESS MY THANKS AND APPRECIATION TO OTHER CITY DEPARTMENTS FOR THE COOPERATION EXTENDED TO THIS DEPARTMENT.

THE SUCCESSFUL OPERATION OF THE DEPARTMENT IS DUE TO THE UNTIRING EFFORTS OF THE DEPUTY DIRECTOR, DIVISION AND SECTION HEADS AND THEIR RESPECTIVE STAFFS, AND MY SINCERE THANKS GO TO THEM FOR JOBS WELL DONE.

RECOMMENDATIONS.

THE UNDERSIDE OF THE BRIDGE IN THE MEMORIAL, MARKET AND CRAWFORD SQUARE AREA SHOULD BE PAINTED.

THE IRON FENCE ON THE BRIDGE AT MARKET SQUARE, BETWEEN WESTMINSTER STREET AND EXCHANGE PLACE, SHOULD BE REPLACED.

THE FURNACE AND COMBUSTION CHAMBER OF GARBAGE INCINERATOR UNIT NO. 1 SHOULD BE RELINED AND THE TRAVELING GRATE REPAIRED.

THE BRICK AND STEEL IN THE ASH HOPPER AT THE END OF THE TRAVELING GRATE SHOULD BE REPLACED.

SIX HUNDRED AND FIFTY LINEAR FEET OF CONVEYOR CHAIN AND FIFTEEN LENGTHS OF CARBON STEEL BAR 3" X $\frac{1}{2}$ " IS REQUIRED TO REPAIR THE ASH CONVEYOR IN UNIT No. 1.

THE GARBAGE GRAB BUCKET IN UNIT No. 1 IS APPROXIMATELY TWENTY YEARS OLD AND IN POOR CONDITION AND SHOULD BE REPLACED.

THE ELECTRIC CRANE IN UNIT No. 1, WHICH HAS BEEN IN SERVICE TWENTY-FOUR YEARS, SHOULD BE OVERHAULED. THIS WORK SHOULD BE DONE UNDER THE SUPERVISION OF AN ENGINEER FROM THE HARNISCHFEGER CORPORATION.

THE FLASHING AROUND THE BRICK SMOKE STACK IN UNIT No. 2 SHOULD BE REPLACED.

THE DEFECTIVE PRE-HEATER TUBES IN GARBAGE INCINERATOR BOILERS No. 3 AND 4 SHOULD BE REPLACED. ALSO, A NUMBER OF TUBES IN BOTH CONDENSERS SHOULD BE REPLACED.

THE INCINERATOR STACK SHOULD BE PAINTED.

CONSIDERATION SHOULD BE GIVEN TO THE INSTALLATION OF A WARNING SYSTEM FOR THE DETECTION OF RADIO ACTIVE ISOTOPES AT A LOCATION IN THE SEWER SYSTEM WHICH WOULD ALLOW AMPLE TIME TO PROTECT PERSONNEL AT THE SEWAGE DISPOSAL PLANT FROM RADIO ACTIVITY.

RESPECTFULLY SUBMITTED,

Charles F. McElroy
CHARLES F. McELROY

DIRECTOR OF PUBLIC WORKS.

IN CITY COUNCIL
FEB 1 - 1962

READ:

WHEREUPON IT IS ORDERED THAT
THE SAME BE RECEIVED.

Robert Whelan
CLERK

BUSINESS MANAGEMENT OFFICE

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, 1961.

STATEMENT OF REVENUE-ESTIMATED AND ACTUAL

	BUDGET ESTIMATE	NET ACTUAL REVENUE	BUDGET EXCESS	COMPARISON DEFICIENCY
BUSINESS AND NON-BUSINESS:				
LICENSES:				
SIDEWALK CONTRACTORS	600.00	540.00		60.00
HIGHWAY PRIVILEGES	1,000.00	1,250.00	250.00	
TOTAL BUSINESS-NON-BUSINESS LICENSES	\$1,600.00	\$1,790.00	\$250.00	\$60.00
SPECIAL ASSESSMENTS:				
SEWERS	45,000.00	28,249.97		16,750.03
TOTAL SPECIAL ASSESSMENTS	\$45,000.00	\$28,249.97		\$16,750.03
DEPARTMENTAL REVENUE:				
SEWAGE PUMPING		22.99	22.99	
SEWAGE DISPOSAL	63,000.00	98,979.95	35,979.95	
GARBAGE COLLECTION AND DISPOSAL	5,000.00	397.65		4,602.35
REFUSE COLLECTION AND DISPOSAL		475.00	475.00	
HIGHWAYS	22,000.00	22,305.46	305.46	
BRIDGE MAINTENANCE		15.00	15.00	
FORESTRY		632.82	632.82	
SEWER CONSTRUCTION AND MAINTENANCE	2,000.00	989.18		1,010.82
STREET LIGHTING		101.50	101.50	
MUNICIPAL DOCKS	235,000.00	248,378.26	13,378.26	
DRAW BRIDGE		36.86	36.86	
HARBOR MASTER		24.89	24.89	
TOTAL DEPARTMENTAL REVENUE	\$327,000.00	\$372,359.56	\$50,972.73	\$5,613.17
TOTAL STATEMENT	\$373,600.00	\$402,399.53	\$51,222.73	\$22,423.20

STATEMENT OF EXPENDITURES

FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1961

	PERSONAL SERVICES	SERVICES OTHER THAN PERSONAL	MATERIALS AND SUPPLIES	EQUIPMENT OUTLAY	TOTAL
GENERAL ADMINISTRATION	\$ 27037.37	\$ 1992.43	\$ 56.12	\$ 35.72	\$ 29951.64
BUSINESS MANAGEMENT	20703.95	313.34	577.03	1145.03	30000.75
ENGINEERING OFFICE	134910.85	5359.71	763.40	255.00	141889.04
SANITATION DIVISION					
SANITATION ADMINISTRATION	11718.20	867.97	21.03		12608.00
STREET CLEANING	335467.16	79479.15	2221.47	1351.12	410518.90
SEWAGE PUMPING STATION	60349.32	1694.30	4577.57		74621.19
SEWAGE DISPOSAL	239545.21	149505.29	231500.16	753.52	591310.18
GARBAGE COLLECTION AND DISPOSAL	590521.35	128730.92	19264.43		747516.70
REFUSE COLLECTION AND DISPOSAL	102303.64	36620.80	63.50		149607.94
CONSTRUCTION AND MAINTENANCE DIVISION					
CONSTRUCTION AND MAINTENANCE ADMINISTRATION	0169.20	040.30			909.50
HIGHWAYS	660934.26	16366.29	69106.92	400.75	942398.22
BRIDGE MAINTENANCE	41056.09	4862.23	7725.00		53654.22
SIDEWALKS AND CURBING	17921.00	3563.27	1170.25	258.75	22621.27
FORESTRY	70401.22	21255.09	3241.53	828.51	95703.65
SNOW REMOVAL	225720.33	61496.39	47511.66		334737.38
SEWER CONSTRUCTION AND MAINTENANCE	293003.72	64341.53	15140.12		372493.37
PUBLIC BUILDINGS	03300.86	4299.88	712.03		96303.57
DRAW BRIDGE OPERATION	45122.92	842.26	306.73		46271.01
MUNICIPAL DOCK	31305.63	6201.16	1555.87		39062.66
HARBOR MASTER	3364.40	115.00			3470.30
STREET LIGHTING	4305.60	40270.90			407405.59
DIVISION OF RELOCATION	20146.37	4554.30	361.24	512.44	25574.35
TOTAL-PUBLIC WORKS ACTIVITIES	\$3001360.45	\$1225511.90	\$395007.04	\$ 6231.74	\$4709919.93

THE FOLLOWING SERVICES WERE ALSO RENDERED BY THIS DEPARTMENT.

APPLICATIONS RECEIVED

FOR ALTERING DRIVEWAYS	95
CONSTRUCTION OF DRIVEWAYS	136
CURBING RESETS	<u>53</u>
TOTAL APPLICATIONS	284

LICENSES ISSUED

NEWSPAPER STANDS	11
PUSH CARTS	12
SIDEWALK STANDS	33
DRAIN LAYERS LICENSES	7
DRAIN LAYERS LICENSES (LIMITED TO SPRINKLER SYSTEMS)	<u>3</u>
TOTAL LICENSES	66

PERMITS ISSUED

PUBLIC UTILITIES	215
BLASTING	2
FOR MOVING CUMBERSOME EQUIPMENT, ETC.	9
STREET OPENINGS (WATER SUPPLY BOARD)	235
ORIGINAL PERMITS FOR SEWER CONNECTIONS	202
EXTENSION OF HOUSE DRAINS	308
SIDEWALK OPENINGS FOR WATER SERVICE	40
STREET OPENINGS (OTHER)	<u>229</u>
TOTAL PERMITS	1240

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, 1961.

THE EXPENDITURES OF THE DIVISION WERE AS FOLLOWS:

ITEM 0	PERSONAL SERVICES	\$134,910.85
ITEM 1	SERVICES OTHER THAN PERSONAL	✓ 5,359.71
ITEM 2	MATERIALS AND SUPPLIES	763.48
ITEM 5	CAPITAL OUTLAY EQUIPMENT	855.00
	TOTAL	<u>\$141,889.04</u>

STREET LINE AND CITY PROPERTY SECTION

NOTICES OF INTENTION TO BUILD

THERE WERE 211 NOTICES OF INTENTION TO BUILD FILED IN THIS OFFICE DURING THE FISCAL YEAR. TWENTY-ONE OF THESE WERE NOT REQUIRED FOR VARIOUS REASONS. IN RESPONSE TO THE REMAINING 190 NOTICES, THE STREET LINES WERE MARKED ON THE GROUND AS REQUESTED FOR THE SPECIFIED LOCATIONS.

FIELD SURVEYS ON THE 12 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>
BERKSHIRE STREET	SALINA STREET TO CORNWALL STREET	400.88
CANONCHET STREET	WINTHROP AVENUE TO STANDISH AVENUE	160.00
CORNWALL STREET	SOUTHERLY LINE BERKSHIRE STREET TO LONGMONT STREET	240.76
DORA STREET	ATWOOD STREET TO CUMERFORD STREET	203.64
EUGENE STREET	SPRINGFIELD STREET TO OPHELIA STREET	176.61
JOSEPH STREET	LUBEC STREET NORTHERLY AND WESTERLY TO A POINT 300 FEET WEST OF ANGLE	480.00

LESTER STREET	DEXTER STREET TO HARRISON STREET	253.89
OPHELIA	HARTFORD AVENUE TO POINT 120 FEET SOUTH OF THORNTON STREET	779.73
QUARRY STREET	CHARLES STREET TO EASTERLY TERMINATION	199.19
RUSHMORE AVENUE	ADA AVENUE TO NORTHERLY LINE ALMIRA AVENUE	384.96
SMART STREET	200 FEET WEST OF JOB STREET TO WINDMILL STREET	424.36
TAPPAN STREET	HAWKINS STREET TO POINT 254.05 FEET SOUTHERLY	254.05
	TOTAL FEET (OR 0.749 MILES)	3,958.07

THE FOLLOWING STREETS WERE ABANDONED DURING THE YEAR:

RECEIVED STREETS ABANDONED

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
ARDOENE STREET	NARRAGANSETT AVENUE TO A POINT 263.68 FEET WESTERLY	263.68
BYRON STREET	BROAD STREET TO PINE STREET	371.79
CLAY STREET	LOCKWOOD STREET TO BORDEN STREET	160.48
CROSS STREET	WESTERLY LINE OF FORMER WEST RIVER STREET SOUTHWESTERLY TO THE WESTERLY LINE OF THE PRESENT WEST RIVER STREET	500.00
MARY STREET	BORDEN STREET TO LOCKWOOD STREET	160.48
MATHEWSON STREET	NORTHERLY LINE OF SABIN STREET TO THE SOUTHERLY LINE OF WEST EXCHANGE STREET	299.14
TUXEDO AVENUE	POINT 200 FEET SOUTH OF AMHERST STREET SOUTHERLY 125 FEET TO ITS SOUTHERLY TERMINATION	125.00
WEST RIVER STREET	RANGE OF SOUTHERLY LINE OF CROSS STREET NORTHERLY TO PORTION PREVIOUSLY ABANDONED	420.00
	TOTAL (FEET)	2,300.57

UNRECEIVED STREETS ABANDONED

*NEVILLE STREET	NIANTIC AVENUE ITS EASTERLY TERMINATION	476.73
ALGONQUIN STREET	CRESCENT STREET TO ITS WESTERLY TERMINATION	94.00
CARVEL STREET	BRUSH HILL ROAD TO HILL CREST AVENUE	160.00
DONALD STREET	NIANTIC AVENUE TO ITS EASTERLY TERMINATION	428.83
HECTOR STREET	PINCKNEY STREET TO ITS SOUTHERLY TERMINATION	280.00
LAKEVIEW DRIVE	NIANTIC AVENUE EASTERLY AND SOUTHERLY TO A POINT 177.70 FEET NORTHERLY FROM THE INTERSECTION OF THE WESTERLY LINE OF LAKEVIEW DRIVE AND THE NORTHERLY LINE OF SWANTON STREET	337.00
*MYRA STREET	BOUNDARY AVENUE TO KILLINGLY STREET	
PINCKNEY STREET	NIANTIC AVENUE TO ITS EASTERLY TERMINATION	1,087.68
ROBERT STREET	NARRAGANSETT AVENUE TO ITS WESTERLY TERMINATION	484.09
SWANSEA STREET	PINCKNEY STREET TO ITS SOUTHERLY TERMINATION	237.15
UNNAMED GANGWAY	(PRIVATE)-BETWEEN EDDY AND DORRANCE STREETS, SOUTH OF FRIENDSHIP STREET AND NORTH OF CLIFFORD STREET	

3,585.48

* LENGTH OF MYRA STREET NOT AFFECTED BY ABANDONMENT PROCEEDINGS. STREET MERELY REDUCED IN WIDTH FROM 50 FEET TO 40 FEET.

THE APPROXIMATE LENGTH OF STREETS PLATTED BUT NOT RECEIVED IS 48.435 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 1961 (MEASURED ALONG PROPERTY LINES) 369.506 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:

LESLIE DRIVE	FROM MT. PLEASANT AVENUE SOUTHEASTERLY, SOUTHERLY AND EASTERLY TO MT. PLEASANT AVENUE.
TRINITY PARKWAY	FROM SMITH STREET WESTERLY AND SOUTHERLY TO FORMER NORTHERLY TERMINATION OF TRINITY PARKWAY.
FAUNCE DRIVE	FROM COLE AVENUE WESTERLY AND SOUTHERLY TO ITS SOUTHERLY TERMINATION.
WRISTON DRIVE	FROM COLE AVENUE TO ITS WESTERLY TERMINATION.
BARBOUR DRIVE	FROM WRISTON DRIVE TO FAUNCE DRIVE.
MAXCY DRIVE	FROM BARBOUR DRIVE TO FAUNCE DRIVE.

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

LESTER STREET	LAND DEEDED FOR HIGHWAY
NARRAGANSETT AVENUE	CROSS - SECTION (PLAYGROUND)
FIELDS POINT	PROPOSED LEASE
NARRAGANSETT AVENUE	SEWER AND WATER LINES (PLAYGROUND)
UNNAMED STREET	PROPOSED PURCHASE
ARDOENE STREET	PROPOSED ABANDONMENT (PORTION)
ROBERT STREET	PROPOSED ABANDONMENT
BYRON STREET	PROPOSED ABANDONMENT
ALLENS AVENUE	PROPOSED EASEMENT
ALGONQUIN STREET	PROPOSED ABANDONMENT (PORTION)
TRIGGS PARK	CROSS- SECTION
WHITMARSH STREET	PROPOSED ABANDONMENT
KINFIELD STREET	RADIUS PLAN (MIN. HOUSING)
ROGER WILLIAMS PARK	ROAD & BUILDING LOCATIONS
CLAY STREET	PROPOSED ABANDONMENT
ARDOENE STREET	PROPOSED SALE
NORTH BURIAL GROUND	WATER PIPE LOCATION
FOUNTAIN, EDDY & WORCESTER STREETS	PROPOSED PURCHASE (BUS STATION)
FIELDS POINT	PROPOSED LEASE
UNNAMED GANGWAY	PROPOSED ABANDONMENT
MASHAUG POND	PROPOSED LEASE
FOUNTAIN AND WORCESTER STREETS	PROPOSED CONDEMNATION
MASHAUG POND	PROPOSED EASEMENT
WEST RIVER STREET	PROPOSED ABANDONMENT (PORTION)
CROSS STREET	PROPOSED ABANDONMENT
TERMINAL ROAD	PROPOSED EASEMENT
MATHEWSON STREET	PROPOSED ABANDONMENT (PORTION)
PINCKNEY STREET	PROPOSED ABANDONMENT
HECTOR STREET	PROPOSED ABANDONMENT

SWANSEA STREET	PROPOSED ABANDONMENT
DONALD STREET	PROPOSED ABANDONMENT
NEVILLE STREET	PROPOSED ABANDONMENT
LAKEVIEW DRIVE	PROPOSED ABANDONMENT (PORTION)
PLAINFIELD STREET	SIDEWALK PERMIT LOCATION
JOSEPH STREET	LAND DEEDED FOR HIGHWAY
CARVEL STREET	PROPOSED ABANDONMENT (PORTION)
PLAINFIELD STREET	SIDEWALK PERMIT LOCATION
EAST GEORGE STREET	PROPOSED ABANDONMENT (PORTION)
WAYLAND AVENUE	PROPOSED ABANDONMENT (PORTION)
ARNOLD STREET	LOCATION SURVEY
FLINT STREET	PROPOSED ABANDONMENT
SCOTT STREET	PROPOSED ABANDONMENT
HOWELL STREET	PROPOSED ABANDONMENT (PORTION)

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:

HARTFORD AVENUE
 PETTEYS AVENUE
 WAYLAND AVENUE
 EAST MANNING STREET
 PITMAN STREET
 CAXTON STREET
 WILD STREET
 MELROSE STREET
 LEXINGTON AVENUE
 ONTARIO STREET
 IONA STREET
 ANGELL STREET
 DOUGLAS AVENUE
 CLYM STREET
 MCWRY STREET
 HARTFORD AVENUE
 FLOWER STREET
 ADMIRAL STREET
 CORTEZ STREET
 LEANDER STREET
 MANTON AVENUE
 LUBEC STREET
 MANILA STREET

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

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

NORTH BURIAL GROUND

DURING THE YEAR 57 DEEDS TO LOTS CONVEYED BY THE CITY AND 58 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 SURVEYS WERE MADE FOR THE DEVELOPMENT OF THREE SECTIONS 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 ARNOLD STREET PLAYGROUND.

SURVEYS WERE MADE AND GRADES MARKED ON SITE OF NEW SCHOOL AND PLAYGROUND AT CAMDEN AVENUE AND DANFORTH STREET.

SURVEYS AND PLANS WERE MADE AND CROSS-SECTIONS WERE TAKEN ON SITE OF THE NEW CLUB HOUSE AT TRIGGS PARK.

SURVEYS WERE MADE FOR LEASES OF CITY-OWNED LAND AT FIELDS POINT.

ELEVATIONS WERE TAKEN AND BATTER BOARDS SET FOR CONSTRUCTION OF AUXILLIARY BUILDINGS ON SITE OF NEW PUBLIC WORKS GARAGE AT FIELDS POINT.

VARIOUS STREET LOCATIONS WERE GIVEN TO ASSIST THE NARRAGANSETT ELECTRIC CO. AND THE TELEPHONE CO. IN SETTING NEW POLES.

SURVEYS WERE MADE AND PLANS DRAWN FOR PROPOSED STREET WIDENINGS.

SURVEYS AND PLANS WERE MADE AND CROSS-SECTIONS WERE TAKEN AT NEW PLAYGROUND SITE AT NARRAGANSETT AVENUE.

TITLE RESEARCH WORK WAS MADE ON VARIOUS PARCELS OF LAND IN THE CITY'S INTEREST.

STREET LINES WERE REESTABLISHED, BUILDINGS LOCATED AND PLANS MADE FOR THE FOLLOWING STREETS:

KILLINGLY STREET	FROM PLAINFIELD STREET TO CITY LINE.
ATWELLS AVENUE	FROM MOUNT PLEASANT AVENUE TO MANTON AVENUE.
MOUNT PLEASANT AVENUE	FROM WHITFORD AVENUE TO SMITH STREET.
ADMIRAL STREET	FROM DOUGLAS AVENUE TO CITY LINE.

A LOCATION SURVEY WAS MADE AND PLANS DRAWN SHOWING ROADS, PATHS, BUILDINGS, ANIMAL PENS, ETC. OF THE NORTHWESTERLY PORTION OF ROGER WILLIAMS PARK.

LOCATION SURVEYS WERE MADE TO ASSIST THE POLICE DEPARTMENT IN PROSECUTING LICENSE VIOLATIONS.

A SURVEY WAS MADE AND PLANS DRAWN FOR CONDEMNATION OF PRESENT BUS TERMINAL SITE.

A SURVEY WAS MADE AND PLANS DRAWN FOR NEW LEASE AND EASEMENT AT DOG POUND AT MASHAUG POND.

A SURVEY WAS MADE FOR PUBLIC BUILDINGS DEPARTMENT AT PRAIRIE AVENUE PLAYGROUND.

A SURVEY WAS MADE, A PLAN AND DESCRIPTION DRAWN FOR AN EASEMENT AT THE HURRICANE BARRIER SITE.

A SURVEY WAS MADE FOR A PROPOSED NEW STREET BETWEEN HILLSIDE AND CHACE AVENUES.

MAPS WERE MADE AND CHARTS PREPARED FOR SNOW REMOVAL ROUTES.

MEASUREMENTS WERE TAKEN AND PLANS MADE FOR PUBLIC BUILDINGS DEPARTMENT FOR SIDEWALK CONSTRUCTION ESTIMATES.

MEASUREMENTS WERE TAKEN AND PLANS DRAWN TO ASSIST THE POLICE DEPARTMENT IN ACCIDENT AND MURDER CASES.

THE ANNUAL CHART SHOWING THE INCIDENCE OF CERTAIN CONTAGIOUS DISEASES WAS PREPARED FOR THE USE OF THE HEALTH DEPARTMENT.

THE ANNUAL TABULATION OF ALL REAL ESTATE OWNED BY THE CITY, SHOWING THE SEVERAL CLASSIFICATIONS ACCORDING TO USAGE, INCLUDING CURRENT VALUATIONS FURNISHED BY THE CITY 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 CHAPTER 987 AND 2118 OF THE PUBLIC LAWS.

DESCRIPTIONS OF LAND TAKEN BY CONDEMNATION FOR HIGHWAYS AND PARK PURPOSES AND FOR INCORPORATION IN DEEDS OF LAND PURCHASED OR SOLD, LEASES AND RIGHTS-OF-WAY TO AND FROM THE CITY, THE METHODS BY WHICH VARIOUS PROPERTIES WERE ACQUIRED, THE PURPOSE OF ORIGINAL PURCHASE AND PRESENT STATUS WERE FURNISHED TO THE LAW DEPARTMENT AND OTHER ASSISTANCE RENDERED AS REQUESTED.

ENGINEERING ASSISTANCE WAS GIVEN TO THE PUBLIC BUILDINGS DIVISION, POLICE DEPARTMENT, CITY PLAN COMMISSION, TRAFFIC DIVISION, BOARD OF CANVASSERS, CITY CLERK'S OFFICE, TAX ASSESSOR'S OFFICE, REDEVELOPMENT AGENCY, WATER DEPARTMENT AND BUILDING INSPECTION DIVISION, FROM TIME TO TIME.

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 FOURTEEN STREETS COVERING SIXTEEN APPLICATIONS.

CURBING. LINES AND GRADES HAVE BEEN MARKED OUT FOR RESETTling CURBING AND PAVING GUTTERS IN PORTIONS OF STREETS AS REQUESTED.

PROFILES. PROFILES OF SUNDRY STREETS, APPROXIMATELY 1.000MILESHAVE BEEN MADE FOR THE PURPOSE OF DEFINING GRADES. THE CONTOURS OF THE CENTER AND SIDE LINES ARE SHOWN AT FIFTY FOOT STATIONS, ALSO THE LEVELS OF THE SILLS AND GROUND LINES OF THE HOUSES ADJOINING THE STREETS. THE PROFILE PLANS INCLUDE PLAN VIEWS WITH PROPERTY LINES AND HOUSES SHOWN.

STREET GRADING. ABUTTING OWNERS: GRADES IN SUNDRY STREETS HAVE BEEN MARKED OUT AT INTERVALS OF ABOUT FIFTY FEET FOR STREET GRADING OR FOR THE BENEFIT OF INDIVIDUALS OWING ABUTTING PROPERTY.

ASSESSMENTS. THE HIGHWAY SECTION COMPUTES ASSESSMENTS FOR CURBING AND GRADING.

PLANS AND SPECIFICATIONS, ENGINEERING FIELD WORK AND INSPECTION WERE FURNISHED FOR THE CONSTRUCTION OR THE RECONSTRUCTION OF THE FOLLOWING STREETS BY THE CONSTRUCTION AND MAINTENANCE DIVISION, HIGHWAY SECTION.

<u>STREET</u>	<u>TYPE-BITUMINOUS CONCRETE</u>	<u>SQ. YDS.</u>
ABBOTSFORD COURT	FREEMAN PARKWAY, TO HAZARD AVENUE	692
ACORN STREET	ATWELLS AVENUE TO CEDAR STREET	1324
ALMY STREET	WESTMINSTER STREET TO GESLER STREET	5356
ALVERSON AVENUE	HARTFORD AVENUE TO WESTMINSTER STREET	6422
ANN STREET	WICKENDEN STREET TO GEORGE M. COHAN MEMORIAL BLVD.	528
ARCH STREET	ELMWOOD AVENUE TO GILMORE STREET	3410
ARMINGTON AVENUE	ACADEMY AVENUE TO CARLETON STREET	3074
BABCOCK STREET	BROAD STREET TO ROGER WILLIAMS PARK	5541
BAKER STREET	ALLENS AVENUE TO EDDY STREET	4731
BOGMAN STREET	PRAIRIE AVENUE TO PLAIN STREET	3672
BRANCH AVENUE	N.Y. N.H. & H. R.R. CROSSING TO SILVER SPRING STREET	200
CACTUS STREET	VERNDALE AVENUE TO PAYTON STREET	2878
CEDAR STREET	ABORN STREET TO BRADFORD STREET	959
CHESTER AVENUE	BROAD STREET TO MILK STREET	3640
COMSTOCK AVENUE	PRAIRIE AVENUE TO BROAD STREET	3549
DABOLL STREET	ELMWOOD AVENUE TO PUBLIC STREET	4129
DARTMOUTH AVENUE	BROAD STREET TO ELMWOOD AVENUE	2781
EDGEWOOD BOULEVARD	ROGER WILLIAMS PARK TO CITY LINE	6093
ELLENFIELD STREET	ALLENS AVENUE TO VIRGINIA AVENUE	2267
FALES STREET	BRIDGHAM STREET TO ARCH STREET	420
FARMINGTON AVENUE	PLAINFIELD STREET TO CITY LINE	4503
FRANK CERBO SQUARE		970
GLENHAM STREET	BROAD STREET TO PRAIRIE AVENUE	4087
HOMER STREET	BROAD STREET TO CACTUS STREET	3042
HUXLEY AVENUE	EATON STREET TO SMITH STREET	4182
IMPERIAL PLACE	BASSETT STREET TO SOUTH STREET	1308
JASTRAM STREET	WHITFORD AVENUE TO SMITH STREET	3025
KNIGHT STREET	WESTMINSTER STREET TO CARPENTER STREET	1406
LINWOOD AVENUE	CRANSTON STREET TO DEXTER STREET	5804
LONGFELLOW STREET	ELMWOOD AVENUE TO WESTERLY TERMINATION	741
LOWELL AVENUE	PLAINFIELD STREET TO HARTFORD AVENUE	6165
MARION AVENUE	BROAD STREET TO ROGER WILLIAMS PARK	2382
MELROSE STREET	POTTERS AVENUE TO LONGFELLOW STREET	12094
OXFORD STREET	EDDY STREET TO OCEAN STREET	2522
OXFORD STREET	GORDON AVENUE TO BROAD STREET	2011
PENNSYLVANIA AVENUE	BROAD STREET TO PRAIRIE AVENUE	1830
POTTERS AVENUE	BUCKLIN STREET TO ELMWOOD AVENUE	1050
SHAFTER STREET	TERRACE AVENUE TO LAUREL HILL AVENUE	1051
STANWOOD STREET	BROAD STREET TO PUBLIC STREET	5818
TAYLOR STREET	PUBLIC STREET TO COMSTOCK AVENUE	3667
THOMPSON STREET	GEORGE M. COHAN MEMORIAL BOULEVARD TO WICKENDEN STREET	705
VERMONT AVENUE	EDDY STREET TO NARRAGANSETT BOULEVARD	5767
WESLEYAN AVENUE	ELMWOOD AVENUE TO TAYLOR STREET	5464
WESTFIELD STREET	ELMWOOD AVENUE TO DEXTER STREET	3085
WILSON STREET	DEXTER STREET TO ELMWOOD AVENUE	3764
	TOTAL	1148,109

SPECIAL HIGHWAY RECONSTRUCTION BY CITY OF PROVIDENCE UNDER CONTRACT.

BY M.A.GAMMINO CONSTRUCTION COMPANY.

<u>STREET</u>	<u>TYPE</u>	<u>SQ. YDS.</u>
ATWELLS AVENUE, VALLEY STREET TO NEAR PUTNAM STREET	BITUMINOUS CONCRETE	5496
ATWELLS AVENUE, HARRIS AVENUE TO RAILROAD BRIDGE	BITUMINOUS CONCRETE	1627
CEDAR STREET, BRADFORD STREET TO WEST EXCHANGE STREET	BITUMINOUS CONCRETE	5791
CHESTNUT STREET, BASSETT STREET TO CLIFFORD STREET	BITUMINOUS CONCRETE	918
DEPASQUALE AVENUE, BROADWAY TO CEDAR STREET	BITUMINOUS CONCRETE	6253
IVES STREET, NEAR GEORGE M. COHAN BOULEVARD TO ANGELL STREET	BITUMINOUS CONCRETE	12377
OAKLAND AVENUE, SMITH STREET TO NEAR HIGGINS AVENUE	BITUMINOUS CONCRETE	1278
PROMENADE STREET, MEMORIAL SQUARE TO NEAR STILLMAN STREET	SHEET ASPHALT	5190
RAYMOND STREET, 10 FEET SOUTH OF RAYMOND STREET TO A POINT 44 FEET SOUTHERLY	BITUMINOUS CONCRETE	166
RICHMOND STREET, SHIP STREET TO WEYBOSSET STREET	BITUMINOUS CONCRETE	4014
SPRUCE STREET, BOND STREET TO LILY STREET	BITUMINOUS CONCRETE	6617
WASHINGTON PLACE, (PORTION) CANAL STREET TO NO. MAIN ST.	SHEET ASPHALT	782
MEMORIAL SQUARE, (PORTION)	SHEET ASPHALT	3638

STREET INTERSECTIONS.

ABORN AND WEST EXCHANGE STREETS	SHEET ASPHALT	306
ATWELLS AND HARRIS AVENUES AND EAGLE STREET	SHEET ASPHALT	1514
BENEFIT AND WATERMAN STREETS	BITUMINOUS CONCRETE	609
CHALKSTONE AVENUE AND RAYMOND STREET	SHEET ASPHALT	553
NORTH MAIN AND WATERMAN STREETS	SHEET ASPHALT	649
SMITH STREET AND OAKLAND AVENUE	SHEET ASPHALT	1128
WATERMAN AND EAST RIVER STREETS	SHEET ASPHALT	1072
GEORGE M. COHAN BOULEVARD AND EAST RIVER STREET	SHEET ASPHALT	846
	TOTAL	60,824

HIGHWAYS RECONSTRUCTED BY STATE DEPARTMENT OF PUBLIC WORKS.

EDDY STREET, CRARY STREET TO BLACKSTONE STREET	SHEET ASPHALT	5,885
HOSPITAL STREET, EDDY STREET TO A POINT SOUTH OF LOCKWOOD STREET	BITUMINOUS CONCRETE	440
PRINCE STREET, FRIENDSHIP STREET TO POINT STREET	BITUMINOUS CONCRETE	746
	TOTAL	7,071

PLANS AND SPECIFICATIONS, ENGINEERING FIELD WORK AND INSPECTION WERE FURNISHED
FOR THE GRADING, CURBING, AND CONSTRUCTION OF THE FOLLOWING STREETS.

<u>STREET</u>	<u>TYPE-BITUMINOUS CONCRETE</u>	<u>SQ. YDS</u>
ALDEN STREET, SAMBETT AVENUE TO VICTORIA STREET		1,174
AMITY STREET, ACADEMY AVENUE TO PEMBERTON STREET		974
CORNWALL STREET, SOUTH LINE LONGMONT STREET TO NORTH LINE CHESHIRE STREET		1,749
CURTIS STREET, BOSWORTH STREET TO SHERIDAN STREET		2,180
GRAFTON STREET, METCALF STREET TO CHATHAM STREET		924
NAHANT STREET, OPPER STREET TO RUSSO STREET		820
NEWCOMB STREET, COGGESHALL STREET TO FORSYTH STREET		758
RUSSO STREET, SOCIAL STREET TO PAUL STREET		810
WARDLAW AVENUE, RIVER AVENUE TO POINT 405 FEET WESTERLY		1,116

TOTAL UNDER CONTRACT TO NARRAGANSETT IMPROVEMENT CO.

10,505

<u>STREET</u>	<u>TYPE-BITUMINOUS CONCRETE</u>	<u>SO. YDS.</u>
ARGOL STREET, EDGEWORTH AVENUE NORTHERLY TO CITY LINE		208
BERKSHIRE STREET, SALINA STREET TO CORNWALL STREET		1,142
CORNWALL STREET, SOUTHERLY LINE BERKSHIRE STREET TO LONGMONT STREET		667
DOME STREET, OAKLAND AVENUE TO MALBONE STREET		615
LAWN STREET, BOLTON AVENUE TO GLOVER STREET		489
MYSTIC STREET, PRAIRIE AVENUE TO ITS EASTERLY TERMINATION		1,263
QUARRY STREET, CHARLES STREET TO ITS EASTERLY TERMINATION		563
RUSHMORE AVENUE, ADA AVENUE TO NORTHERLY LINE ALMIRA AVENUE		1,100
SMART STREET, JOB STREET TO WINDMILL STREET		1,796
SYRACUSE STREET, LAUREL HILL AVENUE TO ITS EASTERLY TERMINATION		380
TAPPAN STREET, HAWKINS STREET TO A POINT 254.05 FEET SOUTHERLY		740

TOTAL UNDER CONTRACT TO M.A.GAMMINO CONSTRUCTION CO.	8,963
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RECAPITULATION

BY NARRAGANSETT IMPROVEMENT CO.	10,505
BY M.A.GAMMINO CONSTRUCTION CO.	8,963
TOTAL FOR STREETS GRADED, CURBED AND CONSTRUCTED WITH BITUMINOUS CONCRETE	19,468

CONSTRUCTION WAS IN PROGRESS IN THE FOLLOWING STREETS ON SEPTEMBER 30, 1961.

ABBOTT STREET, NORTH MAIN STREET TO CAMP STREET
 BARNES STREET, PROSPECT STREET TO THAYER STREET
 BELAIR AVENUE, LARCH STREET TO PHILLIPS STREET
 COLONIAL ROAD, NORTH MAIN STREET TO SUMMIT AVENUE
 CYPRESS STREET, NORTH MAIN STREET TO HOPE STREET
 GOVERNOR STREET, WATERMAN STREET TO ANGELL STREET
 GRAND VIEW STREET, NORTH MAIN STREET TO IVY STREET
 LAURISTON STREET, HOPE STREET TO LORIMER AVENUE
 LINTON STREET, ACADEMY AVENUE TO CANTON STREET
 ROYAL STREET, NORTH MAIN STREET TO KNOWLES STREET.

FOLLOWING IS A LIST OF UNIMPROVED STREETS ORDERED BUILT BY CITY COUNCIL RESOLUTION, CONSTRUCTION OF WHICH HAS NOT COMMENCED:

<u>STREET</u>	<u>CURB ORDERED</u>	<u>LENGTH IN FEET</u>
CANONCHET STREET, WINTHROP AVENUE TO STANDISH AVENUE	JUNE 2, 1961	176
CRARY STREET, ALLENS AVENUE TO EAST LINE UNNAMED STREET	DEC. 5, 1940	276
CUTLER STREET, NEWARK STREET TO ATWELLS AVENUE	AUG. 7, 1952	206
DCRA STREET, ATWOOD STREET TO CUMERFORD STREET	JUNE 2, 1961	222
DOROTHY AVENUE, LANGDON STREET TO WEST LINE ROBIN BROOK	MAY 10, 1956	520
EUGENE STREET, SPRINGFIELD STREET TO OPHELIA STREET	JUNE 2, 1961	189
JOSEPH STREET, LUBEC STREET NORTHERLY AND WESTERLY TO A POINT 300 FT WEST OF ANGLE	APR. 7, 1961	488
JOY STREET, RIVER AVENUE TO WESTERLY TERMINATION	DEC. 6, 1954	400
LEHIGH STREET, POE STREET TO ALLENS AVENUE	APR. 8, 1955	478
LONGWOOD AVENUE, NORTH LINE KENTLAND AVENUE TO CITY LINE	MAY 6, 1960	197
OPHELIA STREET, HARTFORD AVENUE TO A POINT 120 FT. SOUTH OF THORNTON STREET	JUNE 2, 1961	787
POE STREET, SEYMOUR STREET TO LEHIGH STREET	APR. 8, 1955	220
REDWOOD DRIVE, CITY LINE AT LONGWOOD AVE. TO CITY LINE AT ROYAL AVE.	MAY 6, 1960	301
TRAINOR STREET, ACORN STREET TO DE PASQUALE AVENUE	JUNE 20, 1935	249
ROYAL AVENUE, GENTIAN AVENUE TO CITY LINE	MAY 6, 1960	305
PLATTED STREET, CRARY STREET TO GLOBE STREET	DEC. 5, 1940	117
TOTAL		5,131

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	QUEEN STREET, FROM LAUREL HILL AVENUE 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 NIANTIC AVENUE TO LAKEVIEW DRIVE
JUNE 7, 1956	MONTICELLO STREET, FROM OPPER STREET TO ROBIN BROCK SEWER
AUG. 2, 1956	LIBIA STREET, FROM FARMINGTON AVENUE TO ITS TERMINATION
SEPT. 6, 1956	MINNESOTA STREET, FROM WOODWARD ROAD TO ITS TERMINATION
FEB. 7, 1957	MARIA STREET, FROM KILLINGLY STREET TO CITY LINE
APR. 18, 1957	STELLA STREET, FROM BARBARA STREET TO TERMINATION
MAY 16, 1957	CORSTICA 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
OCT. 3, 1957	DUKE STREET, FROM ORMS STREET TO SMITH STREET
DEC. 19, 1957	KING PHILIP STREET, FROM BARBARA STREET TO GRIMWOOD STREET
MAY 1, 1958	YORK STREET, FROM NORTH MAIN STREET TO STEELE STREET
JULY 3, 1958	PROCTOR PLACE, FROM DOYLE AVENUE TO TERMINATION
AUG. 7, 1958	SEDAN STREET, FROM ARGOL STREET TO TERMINATION
SEP. 4, 1958	YORKTOWN PLACE, FROM LINTON STREET TO TERMINATION
NOV. 6, 1958	MYRA STREET, KILLINGLY STREET TO BOUNDRY AVENUE
FEB. 19, 1959	DEERFIELD TERRACE, FROM ALGER AVENUE TO TERMINATION
MAR. 5, 1959	SIBLEY STREET, FROM CRESCENT STREET TO WEST TERMINATION
APR. 2, 1959	NYE STREET, FROM IDA STREET TO MERINO STREET
APR. 16, 1959	STELLA STREET, FROM BARBARA STREET TO GRIMWOOD STREET
JULY 2, 1959	BATTERSON STREET, FROM WALSH STREET TO BULLOCK AVENUE
JULY 2, 1959	BULLOCK AVENUE, FROM BATTERSON STREET TO CITY LINE
JULY 2, 1959	HENNESSEY STREET, FROM SAINT THOMAS STREET TO BULLOCK AVENUE
JULY 2, 1959	ROWLEY STREET, FROM BATTERSON STREET TO HENNESSEY STREET
JULY 2, 1959	TRIGGS STREET, FROM WALSH STREET TO BULLOCK AVENUE
JULY 2, 1959	WALSH STREET, FROM BATTERSON STREET TO HENNESSEY STREET
OCT. 1, 1959	CHRISTOPHER STREET, FROM CHARLES STREET TO WINDMILL STREET
OCT. 1, 1959	DAKOTA STREET, FROM WOODWARD ROAD TO ITS TERMINATION
MAR. 3, 1960	WAYLAND AVENUE, FROM PITMAN STREET TO ITS SOUTHERLY TERMINATION
MAR. 3, 1960	TOGANSETT ROAD, FROM NIANTIC AVENUE TO LAKEVIEW DRIVE
MAR. 3, 1960	UNNAMED GANGWAY FROM PETER STREET TO LEDGE STREET.
SEPT. 1, 1960	OWEN STREET, FROM MANTON AVENUE TO KING STREET
FEB. 16, 1961	LESLIE DRIVE, MT. PLEASANT AVENUE SOUTHERLY AND WESTERLY TO MT. PLEASANT AVENUE
FEB. 16, 1961	TRINITY PARKWAY, SMITH STREET WESTERLY AND SOUTHERLY TO POINT 100.38 FT. NORTH OF NORTH LINE OF CATHEDRAL AVENUE
FEB. 16, 1961	EAST GEORGE STREET, GAND STREET TO BUTLER AVENUE
APR. 20, 1961	HASWELL STREET, EDDY STREET TO EASTERLY TERMINATION
MAY 5, 1961	GRIDLEY STREET, LEDGE STREET TO BISMARCK STREET

MAY 18,1961	SHAW STREET, LANGDON STREET TO LAKESIDE STREET
JULY 6,1961	WRISTON DRIVE, COLE AVENUE TO WESTERLY TERMINATION
JULY 6,1961	BARBOUR DRIVE, WRISTON DRIVE TO FAUNCE DRIVE
JULY 6,1961	MAXCY DRIVE, BARBOUR DRIVE TO FAUNCE DRIVE
JULY 6,1961	FAUNCE DRIVE, COLE AVENUE TO SOUTHERLY TERMINATION
JULY 6,1961	RIDGEWAY AVENUE, FROM A POINT 234.2 FT. EAST OF MANTON AVENUE EASTERLY TO HILLCREST AVENUE
AUG.10,1961	CELIA STREET, HARFFORD AVENUE TO NORTHERLY TERMINATION
AUG.10,1961	LAKESIDE STREET, SHAW STREET TO EVERSON STREET
AUG.10,1961	DOROTHY AVENUE, LANGDON STREET TO CHARLES STREET
SEPT.7,1961	SALVAN STREET, FRUIT HILL AVENUE TO NORTH PROVIDENCE TOWN LINE

PEITIONED 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	VERPUCCI STREET, FROM DOUGLAS AVENUE TO FERNANDO STREET
JULY 7,1955	HILLCREST AVENUE, FROM SOUTH LINE FREEDOM ROAD TO S. LINE CARVEL ST.
AUG. 4,1955	PCE 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 NIAHTIC AVENUE TO LAKEVIEW DRIVE
AUG. 2,1956	LIBIA STREET, FROM FARMINGTON AVENUE TO ITS TERMINATION
NOV. 15,1956	BURTON STREET, FROM BINGHAM STREET TO TERMINATION
FEB. 7,1957	MARIA STREET, FROM KILLINGLY STREET TO CITY LINE
MAY 2,1957	HAGAN STREET, FROM CHARLES STREET TO LANGDON STREET
JUNE 6,1957	PCE 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
FEB. 20,1958	CARVER COURT, FROM 53 PLEASANT STREET TO TERMINATION
MAY 1,1958	YORK STREET, FROM NORTH MAIN STREET TO STEELE STREET
JULY 3,1958	PROCTOR PLACE, FROM DOYLE AVENUE TO TERMINATION
SEPT. 4,1958	YORKTOWN PLACE, FROM LINTON STREET TO TERMINATION
SEPT.18,1958	TAPPAN STREET, FROM HAWKINS STREET TO ADMIRAL STREET
NOV. 6,1958	MYRA STREET, FROM KILLINGLY STREET TO BOUNDARY AVENUE
MAR. 5,1959	SIBLEY STREET, FROM CRESCENT STREET TO WEST TERMINATION
APR. 16,1959	STELLA STREET, FROM BARBARA STREET TO GRIMWOOD STREET
JULY 2,1959	BATTERSON STREET, FROM WALSH STREET TO BULLOCK AVENUE
JULY 2,1959	BULLOCK AVENUE, FROM BATTERSON STREET TO CITY LINE
JULY 2,1959	HENNESSEY STREET, FROM SAINT THOMAS STREET TO BULLOCK AVENUE
JULY 2,1959	ROWLEY STREET, FROM BATTERSON STREET TO HENNESSEY STREET
JULY 2,1959	TRIGGS STREET, FROM WALSH STREET TO BULLOCK AVENUE
JULY 2,1959	WALSH STREET, FROM BATTERSON STREET TO HENNESSEY STREET
OCT. 1,1959	CHRISTOPHER STREET, FROM CHARLES STREET TO WINDMILL STREET
MAR. 3,1960	WAYLAND AVENUE, FROM PITMAN STREET TO ITS SOUTHERLY TERMINATION
MAR. 3,1960	TOGANSSETT ROAD FROM NIAHTIC AVENUE TO LAKEVIEW DRIVE
MAR. 3,1960	UNNAMED GANGWAY, FROM PETER STREET TO LEDGE STREET

OCT. 20, 1960 CLARKSON STREET, ADMIRAL STREET TO TERMINATION
 NOV. 3, 1960 AVON STREET, ANTHONY AVENUE TO EASTERLY TERMINATION
 FEB. 16, 1961 LESLIE DRIVE, MT. PLEASANT AVENUE SOUTHERLY AND WESTERLY TO MT. PLEASANT AVE.
 FEB. 16, 1961 TRINITY PARKWAY, SMITH STREET WESTERLY AND SOUTHERLY TO POINT 100.38 FT.
 NORTH OF NORTHERLY LINE OF CATHEDRAL AVENUE
 FEB. 16, 1961 EAST GEORGE STREET, GANO STREET TO BUTLER AVENUE
 APR. 20, 1961 HASWELL STREET, EDDY STREET TO EASTERLY TERMINATION
 MAY 5, 1961 GRIDLEY STREET, LEDGE STREET TO BISMARCK STREET
 MAY 16, 1961 SHAW STREET, LANGDON STREET TO LAKESIDE STREET
 JULY 6, 1961 WRISTON DRIVE, COLE AVENUE TO WESTERLY TERMINATION
 JULY 6, 1961 BARBOUR DRIVE, WRISTON DRIVE TO FAUNCE DRIVE
 JULY 6, 1961 MAXCY DRIVE, BARBOUR DRIVE TO FAUNCE DRIVE
 JULY 6, 1961 FAUNCE DRIVE, COLE AVENUE TO SOUTHERLY TERMINATION
 JULY 6, 1961 HILL CREST AVENUE, FREEDOM ROAD TO ADA AVENUE
 JULY 6, 1961 RIDGEWAY AVENUE, FROM A POINT 234.27 FT. EAST OF MANTON AVENUE EASTERLY
 TO HILL CREST AVENUE
 AUG. 10, 1961 CELIA STREET, HARTFORD AVENUE TO NORTHERLY TERMINATION
 AUG. 10, 1961 LAKESIDE STREET, SHAW STREET TO EVERSON STREET
 AUG. 10, 1961 DOROTHY AVENUE, LANGDON STREET TO CHARLES STREET
 AUG. 10, 1961 GENOA STREET, FRUIT HILL AVENUE TO TARANTO STREET
 AUG. 10, 1961 CORSCA STREET, FRUIT HILL AVENUE TO GENOA STREET
 SEPT. 7, 1961 SALVAN STREET, FRUIT HILL AVENUE TO NORTH PROVIDENCE TOWN LINE
 SEPT. 7, 1961 COMPTON STREET, MT. PLEASANT AVENUE TO SMITH STREET

SUMMARY TO OCTOBER 1, 1961

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	3,101.3
BITUMINOUS CONCRETE (CURBED)	143.17	2,457,016.4
BITUMINOUS CONCRETE (NOT CURBED)	6.36	111,046.0
SHEET ASPHALT (CURBED)	66.55	1,622,045.4
SHEET ASPHALT (NOT CURBED)	0.30	4,195.0
BITUMINOUS MACADAM (CURBED)	142.01	2,174,260.4
BITUMINOUS MACADAM (NOT CURBED)	2.59	41,138.0
ASPHALT BLOCKS	0.14	1,555.4
BRICK	0.02	197.2
COBBLE	0.24	1,706.9
GRANITE BLOCKS	2.83	43,910.3
WATERBOUND MACADAM (CURBED)	2.24	38,556.0
WATERBOUND MACADAM (NOT CURBED)	0.58	6,237.0
	367.20	6,505,865.3
RECEIVED (NOT IMPROVED)	2.33	
TOTAL	369.53	

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

STREETS PAVED WITH NEW MATERIAL	81,761 LINEAR FEET
BITUMINOUS CONCRETE PAVEMENT LAID	213,909 SQUARE YARDS
SHEET ASPHALT PAVEMENT LAID	21,563 SQUARE YARDS

SEWER AND STRUCTURAL SECTION

THE DUTIES OF THIS SECTION CONSISTS OF THE PREPARATION OF STUDIES, PLANS, SPECIFICATIONS AND ESTIMATES OF PROPOSED SANITARY AND STORM SEWERS, PREPARATION OF STUDIES, PLANS, SPECIFICATIONS AND ESTIMATES OF PROPOSED MISCELLANEOUS STRUCTURES AND THE FIELD ENGINEERING AND INSPECTION WORK OF ALL ABOVE PROJECTS IN PROGRESS AND THE COMPUTATION OF FINAL PAYMENTS TO CONTRACTORS.

ALL RECORDS ON THE ABOVE ARE FILED FOR FUTURE REFERENCE AND ALL FIELD RECORD BOOKS ARE FILED IN FIRE-PROOF CABINETS. PLANS ARE MADE ON CLOTH-MOUNTED DRAWING PAPER OF ALL SEWER CONSTRUCTION AND ALL HOUSE DRAINAGE CONNECTIONS ARE 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 THE FANNING & DOORLEY CONST. CO., INC. DATED MAY 2, 1960 WAS COMPLETED. FINAL COST EQUALED \$124,776.10

THE STREETS INVOLVED ARE AS FOLLOWS WITH THE COMPLETION DATES NOTED.

<u>COMPLETION DATES</u>	<u>DESCRIPTION</u>
AUG. 19, 1960	ARMINGTON AVENUE FROM NEAR CARLETON STREET TO ACADEMY AVENUE
OCT. 19, 1960	COMPTON STREET FROM APPROXIMATELY 330 FEET EAST OF MT. PLEASANT AVENUE TO MT. PLEASANT AVENUE
SEPT. 9, 1960	QUARRY STREET FROM ITS EASTERLY TERMINATION TO CHARLES STREET
DEC. 5, 1960	SMART STREET FROM NEAR WINDMILL STREET TO PRESENT SEWER IN SMART STREET.
OCT. 31, 1960	CHRISTOPHER STREET FROM NEAR WINDMILL STREET TO PRESENT SEWER IN CHRISTOPHER STREET
AUG. 17, 1960	DAKOTA STREET FROM ITS EASTERLY TERMINATION TO WOODWARD ROAD.
APR. 14, 1961	HILLCREST AVENUE FROM NEAR FREEDOM ROAD TO ADA AVENUE, AND IN ADA AVENUE FROM HILLCREST AVENUE TO PRESENT SEWER IN ADA AVENUE
AUG. 30, 1960	MONTICELLO STREET FROM OPPER STREET TO ITS TERMINATION AT ROBIN BROOK SEWER
NOV. 17, 1960	DORA STREET FROM NEAR CUMERFORD STREET TO ATWOOD STREET
NOV. 29, 1960	JOSEPH STREET FROM NEAR UNNAMED STREET TO LUBEC STREET
DEC. 10, 1960	COMPTON STREET FROM NEAR SMITH STREET TO APPROXIMATELY 130 FEET EAST OF MOUNT PLEASANT AVENUE

A CONTRACT FOR SEWERS IN VARIOUS STREETS BY THE V. F. CAPALDI CONST. CORP. DATED JULY 27, 1961. THE STREETS INVOLVED ARE AS FOLLOWS, WITH THE STARTING DATES NOTED. THE VALUE OF THE WORK DONE TO DATE EQUALS \$38,210.00.

IT IS PROPOSED TO ADD THE "ALDRICH FIELD" SEWERS TO THIS CONTRACT AND WILL INCLUDE FAUNCE DRIVE, BARBOUR DRIVE, MAXCY DRIVE AND WRISTON DRIVE.

<u>WORK STARTED</u>	<u>DESCRIPTION</u>
AUG. 22, 1961	AVON STREET FROM ITS TERMINATION TO ANTHONY AVENUE LESLIE DRIVE FROM NEAR MT. PLEASANT AVENUE, EASTERLY AND NORTHERLY TO PRESENT SEWER IN LESLIE DRIVE
AUG. 3, 1961	TRINITY PARKWAY FROM NEAR SMITH STREET WESTERLY TO PRESENT SEWER IN TRINITY PARKWAY.

5. 1. 1.

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, 1961 EXCLUSIVE OF THOSE CONTRACTED FOR:

CITY COUNCIL

RESOLUTION

AND YEAR.

LOCATION

229 1940	BUCKLIN STREET, FROM NEAR POTTERS AVENUE TO GREENWICH STREET
440 1940	NIANTIC AVENUE, FROM NEAR CRANSTON STREET TO AKERMAN STREET
293 1951	WHITE STREET, FROM POWELL STREET TO COLLYER STREET

LIST NO.2

SEWERS PETITIONED FOR AND REFERRED TO THE PUBLIC WORKS COMMITTEE FOR FURTHER ACTION, FROM OCTOBER 1, 1951 TO SEPTEMBER 30, 1961.

OCT. 2, 1952	OKIE STREET, FROM ITS WESTERLY TERMINATION TO BATH STREET.
APR. 16, 1953	MYRA STREET, FROM NEAR BOUNDARY AVENUE TO KILLINGLY STREET.
JULY 1, 1954	BULLOCK AVENUE, FROM CITY LINE TO DUNBAR STREET.
SEPT. 2, 1954	GROTON STREET, FROM DURFEE STREET TO POWHATTAN STREET.
JULY 7, 1955	VESPUCCI STREET, FROM FERNANDO STREET TO DOUGLAS AVENUE.
SEPT. 1, 1955	QUEEN STREET, FROM ITS NORTHERLY TERMINATION TO CLEVELAND STREET.
NOV. 3, 1955	HYMER STREET, FROM NEAR SEAMANS STREET TO GRANDALL 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 NIANTIC AVENUE TO LAKEVIEW DRIVE.
AUG. 2, 1956	LIBIA STREET, FROM THE CITY LINE TO FARMINGTON AVENUE.
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 COWPER COURT, FROM ITS TERMINATION TO MESSER STREET.
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	HENNESSEY STREET, FROM BULLOCK AVENUE TO ST. THOMAS STREET.
AUG. 6, 1959	COMO STREET, FROM ITS NORTHERLY TERMINATION TO LEDGE STREET.
MAR. 3, 1960	WAYLAND AVENUE, FROM EAST GEORGE STREET TO SOUTHERLY TERMINATION.
MAR. 3, 1960	TOGANSETT ROAD, FROM NIANTIC AVENUE TO LAKEVIEW DRIVE.
MAR. 3, 1960	UNNAMED GANGWAY FROM PETER STREET TO LEDGE STREET.
FEB. 16, 1961	EAST GEORGE STREET FROM NEAR WAYLAND AVENUE TO BUTLER AVENUE AND IN BUTLER AVENUE FROM EAST GEORGE STREET TO PITMAN STREET.
FEB. 16, 1961	SWANTON STREET, FROM NIANTIC AVENUE TO LAKEVIEW DRIVE
	TOBYHANNA STREET, FROM NIANTIC AVENUE TO LAKEVIEW DRIVE
	TOGANSETT STREET, FROM NIANTIC AVENUE TO LAKEVIEW DRIVE
	WESTMORE STREET, FROM NIANTIC AVENUE TO LAKEVIEW DRIVE
	MOLTER STREET, FROM NIANTIC AVENUE TO LAKEVIEW DRIVE
	HOWE STREET, FROM NIANTIC AVENUE TO LAKEVIEW DRIVE
	JORDAN STREET, FROM WESTMORE STREET TO RESERVOIR AVENUE
	LAKEVIEW DRIVE, FROM NIANTIC AVENUE TO ITS SOUTHERLY TERMINATION
APR. 20, 1961	HASWELL STREET FROM APPROXIMATELY 300 FEET EAST OF EDDY STREET TO EDDY ST.
JULY 6, 1961	FAUNCE DRIVE FROM APPROXIMATELY 490 FEET WEST OF COLE AVENUE TO COLE AVENUE
JULY 6, 1961	BARBOUR DRIVE FROM NEAR WRISTON DRIVE TO FAUNCE DRIVE
JULY 6, 1961	MAXCY DRIVE FROM NEAR FAUNCE DRIVE TO BARBOUR DRIVE

JULY 6, 1961 WRISTON DRIVE FROM ITS WESTERLY TERMINATION TO COLE AVENUE.
 JULY 6, 1961 JOSEPHINE STREET FROM NEAR WOONASQUATUCKET AVENUE TO WOONASQUATUCKET AVENUE TRUNK SEWER.
 JULY 6, 1961 RIDGEWAY AVENUE FROM PRESENT SEWER 230 FEET EAST OF MANTON AVENUE TO HILLCREST AVENUE.
 AUG. 10, 1961 BLACKSTONE BOULEVARD FROM (HOUSE #261) APPROXIMATELY 60 FEET NORTH OF MAGELLAN STREET TO MAGELLAN STREET AND IN MAGELLAN STREET EASTERLY TO PRESENT SEWER IN MAGELLAN STREET.
 AUG. 10, 1961 CELIA STREET FROM APPROXIMATELY 700 FEET NORTH OF HARTFORD AVENUE TO HARTFORD AVENUE.
 AUG. 10, 1961 GENOA AVENUE FROM NEAR TARANTO STREET TO FRUIT HILL AVENUE.
 AUG. 10, 1961 CORSICA STREET FROM NEAR GENOA AVENUE TO FRUIT HILL AVENUE.

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, 1961 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 1899 TO A TOTAL LENGTH OF 62.7 MILES.

"A" IN 1890 A NEW METHOD OF HANDLING SEWAGE FLOW WAS DEVISED AND WAS CALLED THE IMPROVED SEWER SYSTEM. FROM 1890 TO 1904, 28.1511 MILES OF THIS SYSTEM WAS CONSTRUCTED WITH SIZES VARYING FROM 6 IN. TO 110 IN. IN DIAMETER. THIS SYSTEM INCLUDED THE INTERSEPTING SEWERS, DESIGNED FOR THE COLLECTION OF SEWAGE FLOW FROM 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, 1961 - 51.6027 MILES. (INCREASE THIS YEAR 0.3570 MILES)

"B" IN 1872 THE FIRST STORM SEWER CONSTRUCTION WAS STARTED AND AS OF SEPTEMBER 30, 1961 A TOTAL OF 86.2169 MILES OF SEWERS FOR STORM WATER ONLY, HAVE BEEN CONSTRUCTED AND DISCHARGED INTO THE NEAREST AVAILABLE POND OR STREAM. (INCREASE THIS YEAR .0539 MILES)

"C" THE TOTAL LENGTH OF THE SO-CALLED REGULAR COMBINED SEWERS AS OF SEPTEMBER 30, 1961 EQUALS 323.7018 MILES. (NO CHANGE)

THE TOTAL LENGTH (A+B+C) OF ALL TYPES AND SIZES OF SEWERS MAINTAINED BY THE SEWER DIVISION OF THE PUBLIC WORKS DEPARTMENT AS OF SEPTEMBER 30, 1961 EQUALS 461.5214 MILES. (INCREASE THIS YEAR 0.4109 MILES)

INCLUDED IN THIS MILEAGE ARE APPROXIMATELY 20,065 MANHOLES, ALSO THERE ARE APPROXIMATELY 4685 INLETS AND 11,820 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 PT. 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 AND INVERTED SYPHON SEWER UNDER THE PROVIDENCE RIVER AT INDIA STREET, AND THEN THE SEWAGE FLOWS BY GRAVITY TO THE LARGE PUMPING STATION AT ERNEST STREET. AT THE PUMPING STATION THE SEWAGE IS LIFTED APPROXIMATELY 27 FEET TO THE HIGH LEVEL SEWER IN ERNEST STREET AND FLOWS BY GRAVITY TO THE SEWAGE DISPOSAL PLANT.

SEWAGE FOR YEAR FROM CRANSTON, JOHNSTON AND NORTH PROVIDENCE. BY SPECIAL ACTS OF THE RHODE ISLAND LEGISLATURE, PARTS OF CRANSTON SEWAGE, AND ALL THE NORTH PROVIDENCE AND JOHNSTON SEWAGE ARE ALLOWED TO ENTER THE CITY OF PROVIDENCE SEWER SYSTEM FOR DISPOSAL AND TREATMENT. SEWAGE COSTS ARE BILLED QUARTERLY AND THE FOLLOWING SHOWS THE AMOUNTS BILLED IN OUR FISCAL YEAR 1960-1961.

RECEIVED FROM CRANSTON. (NARRAGANSETT BREWING COMPANY) CONTRACT DATED JUNE 1, 1955 - TERMS \$57.00 PER MILLION GALLONS 102,290,000 GALLONS METERED AND BILLED FOR \$5830.53.

RECEIVED FROM JOHNSTON. CONTRACT DATED MARCH 9, 1956 - TERMS \$57.00 PER MILLION GALLONS, 424,860,000 GALLONS, METERED, ESTIMATED AND BILLED FOR \$24,217.07.

RECEIVED FROM NORTH PROVIDENCE. FLOW MEASURED AND COMPUTED TO EQUAL 2,739,492,900 GALLONS. NEW CONTRACT DATED SEPTEMBER 8, 1959 TERMS \$50,000 ANNUALLY. AVERAGE DAILY FLOW EQUALS 7,505,460 GALLONS.

PRIVATE DRAINS. IN CO-OPERATION WITH THE OFFICE OF THE SANITARY ENGINEER, A COMPLETE RECORD IS MADE OF ALL SEWAGE DRAINAGE INSTALLATIONS IN PRIVATE HOUSES. THESE RECORDS AND RECORD PLANS ARE MADE AND FILED BY THE SEWER SECTION OF THE PUBLIC WORKS ENGINEERING OFFICE AND CONTAIN VALUABLE INFORMATION OF INTEREST TO PROPERTY OWNERS, TITLE 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 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 1961 THE DIRECTOR OF PUBLIC WORKS ISSUED LICENSES TO SEVEN DRAIN LAYERS AND THREE 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. 11, 1960	THREE (3)- 16 YD. GARBAGE AND REFUSE TRUCKS	SANITATION DIV.
NOV. 9, 1960	TWENTY (20)-SNOW PLOWS	HIGHWAY DIV.
DEC. 6, 1960	THREE (3)- COMPACT CARS	SANITATION DIV.
DEC. 27, 1960	ONE (1)- COMPACT CAR	HIGHWAY DIV.
DEC. 27, 1960	ONE (1)- 4 DOOR COMPACT CAR	SEWER DIV.
FEBR. 14, 1961	FOUR (4)-16 YD. GARBAGE AND REFUSE TRUCKS	SANITATION DIV.
FEBR. 14, 1961	ONE (1)- 4 C.Y. DUMP TRUCK AND 20000# WINCH	FORESTRY DIV.
MAY 16, 1961	ONE (1)- MOTORIZED GRADER	HIGHWAY DIV.
MAY 16, 1961	ONE (1)- 4 C.Y. STREET SWEEPER	HIGHWAY DIV.
MAY 31, 1961	FOUR (4)-4 C.Y. DUMP TRUCKS (30000#)	HIGHWAY DIV.
MAY 31, 1961	THREE (3)- 4 C.Y. DUMP TRUCKS (36000#)	HIGHWAY DIV.
AUG. 8, 1961	ONE (1)- CONVEYOR BELT	SANITATION DIV.
AUG. 8, 1961	ONE (1)- FRONT END LOADER	HIGHWAY DIV.
AUG. 8, 1961	ONE (1)- SIX INCH CENTRIFUGAL PUMP	SEWER DIV.

A CONTRACT WAS ENTERED INTO WITH THE ARCHITECTURAL FIRM OF KENT, CRUISE AND ALDRICH ON OCTOBER 15, 1958 FOR THE "PREPARATION OF PLANS AND OTHER ARCHITECTURAL SERVICES" FOR THE "PUBLIC WORKS HIGHWAY OFFICE BUILDING AND GARAGE". THE FINAL FEE WILL APPROXIMATE \$47,000 AND AS OF NOV. 1, 1960 THE ESTIMATED TOTAL PAID EQUALLED \$45,892.74.

THE PUBLIC WORKS HIGHWAY OFFICE BUILDING AND GARAGE IS NOW IN THE PROGRESS OF CONSTRUCTION AT ERNEST ST. ALL EQUIPMENT PLANS AND CONSTRUCTION PLANS SUBMITTED TO DATE BY THE CONTRACTOR WERE APPROVED BY THIS OFFICE AND THE ARCHITECTURAL FIRM OF KENT, CRUISE AND ALDRICH. ALL WORK HAS BEEN INSPECTED AND MONTHLY ESTIMATES FOR PAYMENTS TO THE CONTRACTOR WERE MADE BY THIS OFFICE. THE CONTRACT FOR THE BUILDING AND OTHER INCIDENTAL WORK WAS AWARDED TO JOSEPH P. FLYNN UNDER DATE OF MAY 18, 1959 AND GROUND WAS BROKEN BY THE MAYOR JUNE 4, 1959. THE CONTRACT WAS IN THE AMOUNT OF \$702,422.00 AND AS OF SEPT. 30, 1961 THE ESTIMATED VALUE OF THE WORK COMPLETED EQUALLED \$683,140.56. ON FEB. 20, 1961 THE OFFICE SECTION OF THE BUILDING WAS PERMANENTLY OCCUPIED BY THE HIGHWAY DIVISION. THE GARAGE SECTION IS ALSO OCCUPIED.

PLANS WERE MADE AND SPECIFICATIONS PREPARED BY THE ARCHITECTURAL FIRM OF KENT, CRUISE AND ALDRICH FOR THE PUBLIC WORKS, HIGHWAY DEPT. "STORAGE BINS AND CONVEYING EQUIPMENT". A CONTRACT FOR THIS WORK WAS AWARDED TO "CONVEYORS INCORPORATED" ON SEP. 30, 1960 IN THE AMOUNT OF \$68,691.00. THESE BINS ARE LOCATED JUST EAST OF THE PUBLIC WORKS HIGHWAY OFFICE BUILDING AND GARAGE, AND AS OF OCTOBER 1, 1961 THE ESTIMATED VALUE OF THE WORK COMPLETED EQUALLED \$61,945.18.

AT MUNICIPAL WHARF- A CONTRACT WAS ENTERED INTO WITH FENTON G. KEYES ASSOCIATES ON JUNE 10, 1959 FOR THE PLANS AND SPECIFICATIONS FOR THE SOUTHERLY EXTENSION OF THE SEA WALL, AND AS OF OCTOBER 1961, ESTIMATE NO. 5, PARTIAL PAYMENTS EQUALLED \$69,881.46.

AT MUNICIPAL WHARF - A CONTRACT WAS ENTERED INTO WITH THE M.A. GAMMINO CONSTRUCTION CO. FOR "THE BULKHEAD EXTENSION OF MUNICIPAL WHARF". THE CONTRACT WAS DATED JULY 18, 1960 AND IN THE AMOUNT OF \$1,565,445.00 BASED ON UNIT PRICES. THE DREDGING WORK IN CONNECTION WITH THIS CONTRACT WAS STARTED SEPT. 28, 1960, AND INCLUDED WAS DREDGING AT THE PRESENT WALL OF 23000 CU. YDS. AT THE SAME UNIT PRICE. AS OF SEPT. 30, 1961 THE ESTIMATED VALUE OF THE WORK COMPLETED EQUALLED \$891,496.34.

ADDED TO THIS CONTRACT BY THE BOARD OF CONTRACT AND SUPPLY MAR. 14, 1961 WAS AN ADDITIONAL FIFTY(50) FOOT EXTENSION MAKING THE TOTAL LENGTH OF THE WALL 450 FEET.

AT THE 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 (HARBOR) 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. THIS CONSTRUCTION IS OF A CONTINUING NATURE WITH THE FACING OF THE FILLED MATERIAL CONSTRUCTED OF ROADWAY BASE FROM CITY CONSTRUCTION PROJECTS, OR ANY OTHER SUITABLE MATERIAL MADE AVAILABLE BY CONTRACTORS.

MANY CONFERENCES WERE HELD WITH ENGINEERS, MAKING SPECIAL STUDIES FOR FLOOD CONTROLL, IN CONNECTION WITH THE PROPOSED "FOX POINT HURRICANE BARRIER". THE CITY RECORD PLANS WERE MADE AVAILABLE FOR PHOTOSTATING FOR THE PREPARATION OF CONSTRUCTION PLANS.

THE FOLLOWING ENGINEERS ARE ENGAGED ON THIS PROJECT:

UNITED STATES ARMY ENGINEERS, BOSTON, MASS. INCLUDING THE REAL ESTATE DIVISION.
ENGINEERS, FENTON G. KEYES, ASSOCIATES, PROVIDENCE, R.I.
ENGINEERS, CHARLES A. MAGUIRE & ASSOCIATES, PROVIDENCE, R.I.
GEOLOGIST AND ENGINEER, FRANK E. FAHLQUIST, PROVIDENCE, R.I.

MANY CONFERENCES WERE HELD IN CONNECTION WITH THE PROVIDENCE FREEWAYS, WITH THE PUBLIC WORKS DEPT. OF THE STATE OF RHODE ISLAND IN REGARD TO THE DISPOSAL OF STORM WATERS FROM THE VARIOUS HIGHWAYS AND ALL SEWER SIZES AND CONNECTIONS TO THE CITY SEWERS WERE APPROVED. SOME OF THIS WORK IS NOW IN CONSTRUCTION.

THE VARIOUS PROJECTS ARE NAMED AS FOLLOWS WITH THE ENGINEERS ENGAGED IN THE PREPARATION OF THE PLANS AND SPECIFICATIONS.

"HUNTINGTON EXPRESSWAY", FENTON G. KEYES ASSOCIATES, PROVIDENCE, R.I.
"HUNTINGTON EXTENSION", CHARLES A. MAGUIRE & ASSOCIATES, PROVIDENCE, R.I.
"INTERSTATE ROUTE 95", CHARLES A. MAGUIRE & ASSOCIATES, PROVIDENCE, R.I.
"ROUTE 6 EXPRESSWAY", EDWARDS AND KELSEY, PROVIDENCE, R.I.

PLANS AND SPECIFICATIONS WERE MADE BY "FENTON G. KEYES ASSOCIATES" FOR THE MASHAPAUG POND REDEVELOPMENT AND FULL CO-OPERATION WAS GIVEN BY THIS DEPARTMENT AND ANY PLANS SUBMITTED WERE CHECKED OVER.

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 DEPARTMENT, AND CONSULTED WITH THE STATE DEPARTMENT OF PUBLIC WORKS, THE FEDERAL PUBLIC ROADS ADMINISTRATION, AND THE CONTRACT ENGINEERS AND ARCHITECTS, PREPARING PLANS AND SPECIFICATIONS FOR ALL PUBLIC WORKS PROJECTS IN THE CITY.

PLANS SUBMITTED BY ARCHITECTS, PRIVATE ENGINEERS, THE VARIOUS UTILITIES AND CONTRACTORS WERE CHECKED OVER, REVISED AND APPROVED FOR SIDEWALK SLABS, VAULTS, BRIDGE CROSSINGS AND DUCT INSTALLATIONS UNDER OR OVER STREETS AND SIDEWALKS.

COST ACCOUNTS, BUDGETS, INVENTORIES, SICK LEAVES, VACATIONS, EMPLOYEE DATA ENTRANCES AND TERMINATIONS WERE REPORTED TO THE FINANCE DEPARTMENT. PAYROLLS AND REQUISITIONS WERE MADE UP AND DELIVERY SLIPS FORWARDED.

RESPECTFULLY SUBMITTED,

GILBERT SMALL
CHIEF OF THE ENGINEERING OFFICE.

CONSTRUCTION & MAINTENANCE DIVISION

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

DEAR SIR:

THE FOLLOWING IS THE ANNUAL REPORT COVERING ACTIVITIES OF THE CONSTRUCTION AND MAINTENANCE DIVISION FOR THE YEAR ENDING SEPTEMBER 30, 1961. 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	\$8,169.20
ITEM 1	SERVICES OTHER THAN PERSONAL	840.00
ITEM 2	MATERIALS & SUPPLIES	- --
	TOTAL	\$9,009.20

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	\$600,934.26
ITEM 1	SERVICES OTHER THAN PERSONAL	163,866.29
ITEM 2	MATERIALS AND SUPPLIES	39,106.92
ITEM 5	CAPITAL OUTLAY	499.75
	TOTAL	\$942,390.22

REVENUE: \$23,035.98

STREETS REPAIRED & SURFACED OR RESURFACED

<u>STREET</u>	<u>FROM</u>	<u>TO</u>
KNIGHT STREET	WESTMINSTER STREET	CARPENTER STREET
ALVERSON AVENUE	HARTFORD AVENUE	PLAINFIELD STREET
CEDAR STREET	ADORN STREET	BRADFORD STREET
FARMINGTON AVENUE	PLAINFIELD STREET	CITY LINE
LOWELL AVENUE	PLAINFIELD STREET	HARTFORD AVENUE
RING STREET	KNIGHT STREET	TOBEY STREET
LINWOOD AVENUE	CRANSTON STREET	DEXTER STREET
SHAFTER STREET	TERRACE AVENUE	LAUREL HILL AVENUE
JASTRAM STREET	WHITFORD AVENUE	SMITH STREET
LONGFELLOW STREET	ELMWOOD AVENUE	DEAD END
STANWOOD STREET	BROAD STREET	ELMWOOD AVENUE
COMSTOCK AVENUE	PRAIRIE AVENUE	BROAD STREET
TAYLOR STREET	PUBLIC STREET	COMSTOCK AVENUE
CHESTER AVENUE	BROAD STREET	END
WESLEYAN AVENUE	ELMWOOD AVENUE	TAYLOR STREET
GLENHAM STREET	BROAD STREET	PLAIN STREET
DABOLL STREET	ELMWOOD AVENUE	BROAD STREET
OXFORD STREET	EDDY STREET	OCEAN STREET
POTTERS AVENUE	BROAD STREET	ELMWOOD AVENUE
EDGEWOOD BOULEVARD	HADDON HILL	EDGEWOOD AVENUE
HOMER STREET	BROAD STREET	CACTUS STREET
BADCOCK STREET	BROAD STREET	ROGER WILLIAMS PARK
ARMINGTON AVENUE	ACADEMY AVENUE	CARLETON STREET
CACTUS STREET	VERDALE AVENUE	PAYTON STREET
MARION AVENUE	BROAD STREET	ROGER WILLIAMS PARK
BRANCH AVENUE	NY NH & H RR CROSSING	SILVER SPRING STREET
ELLENFIELD AVENUE	ALLENS AVENUE	VIRGINIA AVENUE
ARCH STREET	ELMWOOD AVENUE	GILMORE STREET
MELROSE STREET	POTTERS AVENUE	RAILROAD
WESTFIELD STREET	ELMWOOD AVENUE	DEXTER STREET
BAKER STREET	ALLENS AVENUE	EDDY STREET
WILSON STREET	DEXTER STREET	ELMWOOD AVENUE
VERMONT AVENUE	EDDY STREET	NARRAGANSETT BOULEVARD
DARTMOUTH AVENUE	BROAD STREET	ELMWOOD AVENUE
BOGMAN STREET	PRAIRIE AVENUE	PLAIN STREET
FALES STREET	BRIDGHAM STREET	ARCH STREET
PENNSYLVANIA AVENUE	BROAD STREET	PRAIRIE AVENUE
SYRACUSE STREET	CONTINUATION	
ANN STREET	WICKENDEN STREET	INDIA STREET
THOMPSON STREET	GEO. M. COHAN BOULEVARD	WICKENDEN STREET
ABBOTSFORD COURT	FREEMAN PARKWAY	HAZARD STREET
PLANET STREET	SOUTH WATER STREET	SOUTH MAIN STREET
OXFORD STREET	GORDON STREET	BROAD STREET

STREETS STARTED 1959-60 COMPLETED 1960-61

HUXLEY AVENUE	EATON STREET	SMITH STREET
ALMY STREET	WESTMINSTER STREET	GESLER STREET
ACORN STREET	ATWELLS AVENUE	CEDAR STREET

STREETS STARTED 1960-61 INCOMPLETE 9/30/61

<u>STREET</u>	<u>FROM</u>	<u>TO</u>
GOVERNOR STREET	WATERMAN STREET	ANGELL STREET
CYPRESS STREET	NORTH MAIN STREET	HOPE STREET
LAURISTON STREET	HOPE STREET	LORIMER AVENUE
ABBOTT STREET	NORTH MAIN STREET	CAMP STREET
GRANDVIEW STREET	NORTH MAIN STREET	IVY STREET
ROYAL STREET	NORTH MAIN STREET	KNOWLES STREET
BELAIR AVENUE	LARCH STREET	PHILLIPS STREET
BARNES STREET	PROSPECT STREET	THAYER STREET
COLONIAL ROAD	NORTH MAIN STREET	GLENDALE AVENUE

PATCHING & REPAIRING SUNDRY STREETS

PATCHING MATERIALS USED FOR TEMPORARY REPAIRS WERE PURCHASED FROM PRIVATE VENDORS.

APPROXIMATELY 340 MILES OF HIGHWAY WERE MAINTAINED DURING THE FISCAL YEAR.

MATERIALS USED ON GENERAL PATCHING AND REPAIRING WERE AS FOLLOWS:

READY MIXED CONCRETE	49.5 CU. YDS	CRUSHED STONE	268.50 TONS
A.C. MIX	1130.51 TONS	KEROSENE	760.00 GALS.
CRUSHED GRAVEL	251.12 TONS	SAND	532.00 TONS

MATERIALS USED ON SURFACING AND RESURFACING WERE AS FOLLOWS:

A.C. MIX	23,914.24	TONS
CEMENT	61	BAGS
CRUSHED STONE 2"	302.70	TONS
KEROSENE	7,240	GALLONS
SAND	647.10	TONS

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

CEMENT	1,139.00	BAGS
GRAVEL 1½"	492.16	TONS
SAND	632.00	TONS
A.C. MIX	204.05	TONS

DRIVEWAYS & CURBING

DRIVEWAYS ALTERED	1	2' CIRCULAR CORNERS SET	381
DRIVEWAYS CONSTRUCTED	237	S.B. CORNERS SET	93
DRIVEWAYS WIDENED	33	CURB SET AND RESET	4,564 Ft.
DRIVEWAYS CLOSED	31	DRIVEWAYS RELOCATED	9

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 STREET PLAYGROUND, VALLEY STREET PLAYGROUND, LAUREL HILL PLAYGROUND, DEXTER TRAINING GROUNDS, NEUTACONKANUT PARK, HOPKINS PARK, JOSEPH WILLIAMS FIELD, MT. PLEASANT PARK, BUCKLIN STREET PLAYGROUND, VEAZIE STREET PLAYGROUND, ROGER WILLIAMS PARK, ASCHAM PARK, MT. PLEASANT HIGH SCHOOL FIELD, PROVIDENCE GAS COMPANY FIELD, DAVIS PARK, QUAD STREET PLAYGROUND, GARIBALDI PLAYGROUND, RIDGE STREET 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, MANTON AVENUE AND HARTFORD AVENUE.
4. RESURFACED ROADWAYS IN ROGER WILLIAMS PARK.
5. ERECTED AND REMOVED BANDSTANDS FOR COLUMBUS DAY, ARMISTICE DAY AND LABOR DAY CELEBRATIONS; ALSO FOR VARIOUS VETERANS AND CIVIC ORGANIZATIONS FOR DEDICATIONS AND MEMORIALS.
6. 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 RUBBISH FROM THE CITY HALL.
9. WORKED ON THE REMOVAL OF LARGE SAND HILL ON LAND LEASED BY SUN OIL COMPANY 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. PERFORMED PERMANENT MAINTENANCE ON FOLLOWING STREETS: ALLENS AVENUE, ELMWOOD AVENUE, EDDY STREET, SMITH STREET, GILMORE STREET AND CEMETERY STREET.

LAWNS AND GRASS PLATS

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

EIGHTH ST. & LORIMER AVENUE
SLATER AVE. AND GOLDSMITH STREET
SEWER DISPOSAL GROUNDS
EDDY ST. AND SHIP STREET
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	\$ 41,066.99
ITEM 1 SERVICES OTHER THAN PERSONAL	4,862.23
ITEM 2 MATERIALS AND SUPPLIES	<u>7,725.00</u>
	\$ 53,654.22

REVENUE \$13.04

THERE ARE 57 CITY-OWNED BRIDGES, OF WHICH THE FOLLOWING 23 REQUIRED WORK THIS YEAR:

ACORN STREET BRIDGE	MERINO BRIDGE (GLENBRIDGE AVE.)
HARRIS AVE. OVERPASS	MERINO PARK FOOTBRIDGE
FRANCIS STREET BRIDGE	NASH LANE BRIDGE (PETTIS ST.)
GASSEE ST. BRIDGE	PARK STREET BRIDGE
PLAINFIELD ST. OVERPASS	RED BRIDGE
MAGNOLIA ST. OVERPASS	POINT STREET BRIDGE
BURNSIDE BRIDGE	CEMETERY STREET BRIDGE
POINT STREET BRIDGE	SMITH STREET BRIDGE
ROGER WILLIAMS AVENUE BRIDGE	ADELAIDE AVENUE FOOTBRIDGE
DELAINE STREET BRIDGE	CRAWFORD STREET BRIDGE
WEYBOSSET BRIDGE	COURTHOUSE FOOTBRIDGE
CANAL STREET BRIDGE	

THE FOLLOWING WORK WAS ALSO DONE:

1. REPAIRED SIDEWALKS ON THE FOLLOWING BRIDGES: RED, POINT, GLENBRIDGE AVENUE, ROGER WILLIAMS AVENUE, PARK STREET, LIVINGSTONE STREET, ACORN STREET, DELAINE STREET, WEYBOSSET AND CRAWFORD STREET.
2. REPAIRED ROADWAYS ON ACORN STREET, LIVINGSTONE STREET, PARK STREET, SMITH STREET AND CEMETERY STREET.
3. REPAIRED LELAND STREET, MERINO PARK, ADELAIDE AVENUE AND COURTHOUSE FOOTBRIDGES.
4. CAULKED AND PAINTED BOATS FOR RED BRIDGE AND BRIDGE MAINTENANCE SECTION.
5. STARTED PAINTING OF POINT STREET VIADUCT.
6. STARTED PAINTING OF BRIDGES IN POST OFFICE SQUARE.
7. REPAIRED BREAKS IN FENCES ON BOTH KINSLEY AVENUE AND PROMENADE STREET DAMAGED BY AUTOMOBILES.
8. REPAIRED FOUR SPRINKLER SYSTEMS IN STORAGE SHED AT MUNICIPAL DOCK.
9. REPAIRED STOVE AND DOORS TO OPERATING HOUSE AT RED BRIDGE.
10. PAINTED GUARDRAILS ON ROBERTS EXPRESSWAY.

11. ERECTED NEW CHAIN LINK FENCE AND GUARDRAIL ON RAMP APPROACH TO DEPASQUALE AVENUE BRIDGE OVER NEW HAVEN RAILROAD.
12. REPAIRED PLANK ROADWAYS IN BOTH PARK STREET AND ACORN STREET BRIDGES.
13. REBUILT TWO AND REPAIRED EIGHT STEEL EXPANSION JOINTS ON ROBERTS EXPRESSWAY.
14. REPAIRED TWO HYDRANTS AND ONE BREAK IN WATER MAIN AT FIELDS POINT.
15. REBUILT THREE GEARS AND REPLACED BEARINGS ON OPERATING MECHANISM ON RED BRIDGE.
16. REPAIRED EXPANSION JOINT ON POINT STREET VIADUCT.
17. REPAIRED TWO MOTORS FOR END LOCKS, POINT ST. BRIDGE.
18. OVERHAULED AUXILIARY MOTOR-GENERATOR ON POINT ST. BRIDGE.
19. REPAIRED TWO BREAKS IN GUARDRAIL ON ROBERTS EXPRESSWAY BROKEN IN TRAFFIC ACCIDENTS.
20. DEMOLISHED AND CLEARED DEBRIS OF SIX OLD BUILDINGS (NEW ENGLAND COAL & COKE COMPANY) AT MUNICIPAL DOCK.
21. REPAIRED STEEL EXPANSION JOINTS IN ROADWAY OF GASPEE STREET BRIDGE AND RESERVOIR AVENUE RAILROAD BRIDGE.
22. REPAIRED STEEL EXPANSION JOINTS IN SIDEWALKS OF RESERVOIR AVENUE RAILROAD BRIDGE (4 JOINTS); CRAWFORD STREET (2 JOINTS); COURTHOUSE FOOTBRIDGE AND WEYBOSSET BRIDGE (2 JOINTS).
23. REPLACED BRICK ARCH IN SIDEWALK OF WEYBOSSET BRIDGE WITH REINFORCED CONCRETE SLAB.
24. REPLACED BRICK ARCH IN SIDEWALK OF CANAL STREET BRIDGE WITH REINFORCED CONCRETE SLAB.

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 SERVICE	\$17,921.00
ITEM 1	SERVICE OTHER THAN PERSONAL	3,563.27
ITEM 2	MATERIALS & SUPPLIES	1,178.25
ITEM 5	CAPITAL OUTLAY	258.75
	TOTAL	<u>\$22,921.27</u>

REVENUE:

SIDEWALK CONTRACTORS' LICENSES	\$ 540.00
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THE OPERATIONS OF THIS SECTION WERE AS FOLLOWS:

SIDEWALK CONTRACTORS' LICENSES ISSUED	54
NOTICES SERVED TO BUILD OR REPAIR	386
BUILT OR REPAIRED	243
PERMITS TO BUILD OR REPAIR	525
SEWER OPENINGS INSPECTED	197
DRIVEWAYS INSPECTED	234
MEMORIAL SQ. SIGNS REPAIRED & RELETTERED	44
MEMORIAL SQUARES APPROVED BY COUNCIL	1
SIDEWALKS INSPECTED AFTER INSTALLATION OF NEW WATER SERVICES	156
STREETS ABANDONED BY COUNCIL AND SIGNS ERECTED	22
WASHOUT DEPRESSIONS INSPECTED AND REPAIRED	168
SIDEWALK CLAIMS INVESTIGATED	36
STREET SIGNS REPAINTED AND RELETTERED	106
STREET NAMES CHANGED BY COUNCIL	2
POLE OPENINGS INSPECTED	143
TOTAL LIN. FT. OF TAR CONCRETE SIDEWALKS BUILT	22,320
TOTAL LIN. FT. OF CEMENT SIDEWALKS BUILT	14,530

THIS SECTION REPLACED 1293 DEFECTIVE STREET SIGNS WITH NEW BLACK AND WHITE METAL SIGNS.

THIS SECTION ALSO MADE A SURVEY OF ALL SIDEWALK CONDITIONS IN CONJUNCTION WITH THE ROAD BUILDING AND RESURFACING PROGRAM ON THE FOLLOWING STREETS:

ATWELLS AVENUE
CEDAR STREET
CHESTNUT STREET
IVES STREET
RICHMOND STREET
SPRUCE STREET
DEPASQUALE AVENUE

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	\$70,401.22
ITEM 1 SERVICES OTHER THAN PERSONAL	21,255.09
ITEM 2 MATERIALS AND SUPPLIES	3,218.83
ITEM 5 CAPITAL OUTLAY	828.51
TOTAL	<u>\$95,703.65</u>

REVENUE: \$632.50

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 TYPES)	1,298

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

TREES 25 TO 50 FT. TALL	85.1%	23,176
TREES OVER 50 FT. TALL	4.2%	1,144
TREES UNDER 25 FT. TALL	10.7%	2,914

LESS THAN ONE PERCENT OF THE TREES ON OUR STREETS ARE DISEASED OR IN POOR CONDITION. THE DISEASED TREES ARE BEING REMOVED AND REPLACED BY TREES FROM THE NURSERY. THIS PROGRAM OF DEMOLITION AND REPLACEMENT, THE SO CALLED "DUTCH ELM PROGRAM", IS CLOSELY COORDINATED WITH THE OVERALL PROGRAM FOR THE CONTROL OF THIS DISEASE BEING PURSUED BY THE STATE OF RHODE ISLAND DEPARTMENT OF AGRICULTURE AND CONSERVATION.

382 DISEASED ELM TREES WERE CONDEMNED AND REMOVED THIS YEAR. 187 OF THESE TREES WERE ON CITY STREETS AND 195 ON PRIVATE PROPERTY. THE FORESTRY SECTION REMOVED 102 TREES AND THE REMAINDER WAS TAKEN DOWN UNDER PRIVATE CONTRACT.

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

FORESTRY SECTION	31
SAMUEL KINDER BROS.	156
COLONIAL NURSERIES	<u>195</u>
TOTAL	382

THE NURSERY AT ROGER WILLIAMS PARK CONSISTS OF PIN OAKS AND UPRIGHT MAPLES. THE CULTIVATION AND GROWTH OF THESE TREES ARE PROGRESSING WELL AND MORE LAND HAS BEEN CLEARED AND CULTIVATED FOR THE 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 714 TREES IN THE NURSERY.

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

NUMBER OF TREES PRUNED (REGULAR)	4,555
NUMBER OF TREES REMOVED (REGULAR)	1,007
NUMBER OF TREES SPRAYED	5,345
NUMBER OF TREES PLANTED	640

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

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$225,729.33
ITEM 1 SERVICES OTHER THAN PERSONAL	61,496.39
ITEM 2 MATERIALS AND SUPPLIES	<u>47,511.66</u>
TOTAL	\$334,737.38

C&M-8

FOR THE FISCAL YEAR 1960-1961 THE CITY HAD 12 SNOW STORMS. THE FIRST ON DECEMBER 11, 1960, AND THE LAST ON MARCH 19, 1961, WITH A TOTAL ACCUMULATION OF 60.2 INCHES. DURING THIS PERIOD THE FOLLOWING WORK WAS COMPLETED:

SANDING STREETS	13,712 MILES
PLOWING STREETS	16,415 MILES
REMOVAL OF SNOW (BUSINESS AREA, CHURCHES AND FUNERAL HOMES)	182,075 CU. YDS.

THE FOLLOWING MATERIALS WERE USED DURING THE YEAR:

SAND	15,887.66 TONS
SALT	2,060.73 TONS

NINETY-ONE (91) LABORERS, WORKING 1218 MAN HOURS, WERE HIRED FOR THE REMOVAL OF SNOW; AND THE FOLLOWING EQUIPMENT WAS HIRED FROM PRIVATE CONTRACTORS:

TRUCKS	186	HOURS	2,610
F.E. LOADERS	6	HOURS	173½
BULLDOZERS	3	HOURS	101
GRADER	1	HOURS	12
CRANE	1	HOURS	4

SEWER CONSTRUCTION & MAINTENANCE SECTION

THIS SECTION IS RESPONSIBLE FOR THE INSPECTION, MAINTENANCE, CLEANING, REPAIRING, CONSTRUCTION AND RECONSTRUCTION OF THE SEWERS AND SEWER APPURTENANCES SUCH AS MANHOLES, CATCH BASINS, INLETS, ETC., OF THE SEWER SYSTEM.

EXPENDITURES

ITEM 0 PERSONAL SERVICES	\$293,003.72
ITEM 1 SERVICES OTHER THAN PERSONAL	64,341.53
ITEM 2 MATERIALS AND SUPPLIES	15,148.12
TOTAL	\$372,493.37

REVENUE	\$ 989.18
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MAINTENANCE AND CONSTRUCTION WORK PERFORMED

MANHOLES REBUILT AND REPAIRED	16
DEFECTIVE OR BROKEN MANHOLE COVERS REPLACED	35
MISSING MANHOLE COVERS REPLACED	9
CHUTES REPAIRED OR REBUILT	31
BROKEN BASIN COVERS REPLACED	24
CATCH BASINS REPAIRED OR REMODELED	30
BROKEN GUTTER GRATES REPLACED	11
BROKEN INLET STONES REPLACED	22
TRAPS REPLACED	12
MANHOLE FRAMES REPLACED	15
CATCH BASIN FRAMES REPLACED	5
RESETTING OF MANHOLE COVERS AND FRAMES	10
REPAIRS TO MANHOLE COVERS AND FRAMES	13
SEWER LINES AND CONNECTIONS REPAIRED	16

BASINS, GUTTER GRATES AND SUMPS CLEANED: DEPOSITS
REMOVED, LINES FLUSHED: AND COMPLAINTS RECEIVED.

BASIN INSPECTIONS	25,720
9475 BASINS CLEANED	21,181.92 CU. Yds.
141 SUMPS CLEANED	407.52 " "
1220 GUTTER GRATES CLEANED	589.91 " "
2096 COMPLAINTS RECEIVED	ALL CLEARED
LINES FLUSHED	20,250 FT.
12 OPEN DRAINS CLEANED	182 FT.

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

STREET OPENINGS FOR PRIVATE DRAIN CONNECTIONS	63
INSPECTION AND RECORD SKETCHES FOR PRIVATE DRAIN CONSTRUCTION AND ALTERATIONS:	

ORIGINAL	202	EXTENSIONS	308
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WORK PERFORMED IN CONJUNCTION WITH HIGHWAY SECTION

BASINS BROUGHT TO GRADE	19
MANHOLES BROUGHT TO GRADE	483
INLET STONES SET TO NEW GRADE	1

OTHER CONSTRUCTION & MAINTENANCE WORK PERFORMED

PITMAN STREET - IN ORDER TO LOCATE BROKEN 36" CAST IRON SEWER PIPE, AND PERMIT THE FREE RUNNING OF SEWERAGE, IT WAS NECESSARY TO EXCAVATE AN AREA APPROXIMATELY 25' LONG BY 12' WIDE AND 16' DEEP - ABOUT 180 CUBIC YARDS. ALSO, IT WAS NECESSARY TO BREAK DOWN ONE MANHOLE WHICH WAS REBUILT TO A HEIGHT OF 14', ALTHOUGH IT WILL EVENTUALLY HAVE TO BE REBUILT TO A HEIGHT OF ABOUT 26'. IN THIS CONNECTION, REMOVED A TOTAL OF APPROXIMATELY 540 CUBIC YARDS OF DIRT.

EXAMINE SEWER LINES IN A LARGE NUMBER OF LOCATIONS.

BOGMAN STREET (AT STANIFORD ST.) REPAIRED MAIN SEWER LINE, REPLACING FOUR FEET OF PIPE.

BUILT BULKHEAD IN DEAD CONNECTION ON SHERWOOD STREET.

BUILT CONCRETE WALL AND DRILLED 12 HOLES THROUGH EXISTING WALL- SEWER DISPOSAL PLANT.

BRICKED UP CONNECTION IN 12" STORM LINE ON LAWN STREET AND ALSO REPAIRED CONNECTION ON MASSACHUSETTS AVENUE.

REPAIRED BROKEN SEWER CONNECTION - FOSH AVENUE.

EXCAVATED TO LOCATE STORM SEWER MANHOLES ON SMART STREET.

BRICKED UP 12" OPENING IN CAST IRON PIPE AT SEWER DISPOSAL PLANT, AND BUILT PIER UNDER 90 DEGREE BEND TO SUPPORT WEIGHT; AND PLASTERED OVER BRICK WORK.

REPAIRED BROKEN PIPE LINE AT #181 NASHUA STREET.

BUILT FRAME WORK AND INSTALLED SINK - INCINERATOR PLANT.

RESERVOIR AVENUE PUMPING STATION - EXCAVATED FOR BROKEN PIPE IN WATER LINE SO THAT CONTRACTOR COULD REPLACE SAME, AND BACK FILLED.

OLD CITY YARD, EDDY STREET - CAPPED DRAIN PIPE WHEN BUILDING WAS RAZED FOR OVERPASS.

SEWER DISPOSAL PLANT - CAULKED 10" IRON PIPE WHICH RUNS FROM TANK TO PRESSURE HOUSE.

INSTALLED NEW MANHOLE AND FRAME AND TWO CHUTES AT MERIT GASOLINE STATION, NORTH MAIN STREET.

ELMWOOD AVENUE TRUNK LINE - CEMENTED ALL LOOSE MANHOLE COVERS.

SEWAGE DISPOSAL PLANT - LAID 200' OF 12" CONCRETE PIPE, WITH TWO MANHOLES, FROM SLUDGE TANK TO THE DETRITOR TO FACILITATE THE RETURN FOR TREATMENT OF SEWERAGE BACK THROUGH THE SYSTEM.

FALLON AVENUE - EXCAVATED 51 LINEAL FEET (APPROXIMATELY 51x4x14') A TOTAL OF ABOUT 2856 CU. FT. TO LOCATE AND REPLACE BROKEN PIPES IN MAIN SEWER LINE. REPLACED 17 BROKEN PIPES.

ERNEST STREET, AT NEW HIGHWAY GARAGE - IN CONNECTION WITH NEW HIGHWAY GARAGE CONSTRUCTION PROGRAM, EXCAVATED APPROXIMATELY 500' ON EAST AND WEST SIDE OF BUILDING AND LAID 475' OF 12" STORM LINE WITH SEVEN ROOF DRAIN CONNECTIONS, TOTTALLING 60' OF 6" LINE. ALSO BUILT SIX MANHOLES ON LINES AND EXTENDED CONNECTIONS 30' FROM BUILDING LINE TO A DEPTH OF 19' CONNECTING INTO THE 110" TRUNK LINE IN ERNEST STREET. ALSO INSTALLED 8" SANITARY LINE 24' FROM BUILDING TO MANHOLE IN ERNEST STREET MAIN SANITARY SEWER. THIS JOB STARTED JULY 7TH, 1960 AND COMPLETED NOVEMBER, 1960.

PUMPING STATION, ERNEST STREET - BUILT 12' BREEZEWAY OR CONNECTING RUNWAY FROM BOILER ROOM TO SCREEN CHAMBER AS PROTECTION AGAINST WEATHER HAZARDS FOR SEWER PUMPING STATION.

IMPERIAL PLACE - IN CONNECTION WITH CHANGING THE RADIUS OF CORNER, REMODELED TWO BASINS TO RECEIVE MANHOLE FRAMES AND COVERS, BUILT TWO BOX CHUTES AND ONE REGULAR CHUTE WITH 18' OF 12" CONNECTIONS.

BUILDING #06, ERNEST STREET - REPAIRED AND REMODELED OLD PUMPING STATION BOILER HOUSE TO BE USED AS SWEEPER SHED, FURNISHING HIGHWAY SECTION TRANSPORTATION FROM EDDY STREET TO NEW GARAGE ON ERNEST STREET. BUILDING TO BE DESIGNATED AS BLDG. #6 UNDER SEWER CONSTRUCTION & MAINTENANCE SECTION. THIS JOB CONSISTED OF THE REFINISHING OF DOORS, ROOF, FLOORING AND THE INSTALLATION OF 12'x16' OVERHEAD, HEAT AND LIGHTS.

RESERVOIR AVENUE PUMPING STATION, - PAINTED, REPAIRED AND REPUTTIED WINDOWS AND DOORS, REPLACING SIX BROKEN PANES AND DEFECTIVE LOCKS AND LATCHES FOR SEWER PUMPING STATION SECTION.

ERNEST STREET, OPPOSITE NEW GARAGE - LOCATED BURIED MANHOLE AND BROUGHT SAME TO GRADE.

CHARLES STREET - PERFORMED A COMPLETE JOB OF CLEANING BOTH STORM AND SANITARY LINES ON THIS STREET - FROM SMART STREET TO CHRISTOPHER STREET.

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	\$83,390.76
ITEM 1 SERVICES OTHER THAN PERSONAL	4,299.88
ITEM 2 MATERIALS AND SUPPLIES	612.83
TOTAL	\$88,303.47

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 DEPARTMENT, RECREATION DEPARTMENT, TRAFFIC ENGINEERS DEPARTMENT, WELFARE DEPARTMENT, BATH HOUSES, COMFORT STATIONS AND CITY HALL.

2. SUPERVISED THE CONSTRUCTION OF THE MARY E. FOGARTY ELEMENTARY SCHOOL, THE CAMDEN AVENUE SCHOOL AND THE DANFORTH STREET RECREATION CENTER, ALL OF WHICH ARE NOW UNDER CONSTRUCTION. THIS INCLUDED SUPERVISION OF SUPPLEMENTARY DETAILS, INSPECTION ON THE SITE, ETC.

3. SUPERVISED THE PREPARATION OF PLANS AND SPECIFICATIONS, AND ARE NOW SUPERVISING CONSTRUCTION WORK AT:

PLAYGROUND	ARDOENE STREET AND NARRAGANSETT AVENUE
CLUB HOUSE	TRIGGS MEMORIAL PARK
BOILER REPLACEMENT	CHARLES V. CHAPIN HOSPITAL
HEATING ALTERATIONS	LEXINGTON AVENUE SCHOOL
INTERIOR ALTERATIONS	RALPH STREET, SMITH STREET AND LEXINGTON AVENUE SCHOOLS.

4. PREPARED PLANS AND SPECIFICATIONS AND SUPERVISED INSTALLATION OF SHEET METAL AND ROOFING WORK, MISCELLANEOUS INTERIOR ALTERATIONS, PAINTING INTERIORS AND EXTERIORS, ELECTRICAL, PLUMBING AND VENTILATING ALTERATIONS AT SEVERAL SCHOOLS AS REQUESTED BY THE SCHOOL DEPARTMENT.

5. SUPERVISED CONSTRUCTION OF FENCES, SIDEWALKS AND YARD PAVING AT VARIOUS SCHOOLS.

6. SUPERVISED INSTALLATION OF ANTENNA SYSTEMS AT TWENTY-TWO SCHOOLS.

7. PREPARED PLANS AND SPECIFICATIONS AND SUPERVISED AND INSPECTED WORK ON HEATING ALTERATIONS AT THE CITY HALL AND MUNICIPAL GARAGE HEATING PLANTS.

8. PREPARED PLANS, SPECIFICATIONS AND SUPERVISED THE WORK INVOLVED IN THE BUILDING OR INSTALLING OF THE FOLLOWING FACILITIES AT LOCATIONS SHOWN BELOW:

CHIMNEY AT BIRDHOUSE, ROGER WILLIAMS PARK
PLANTING WELLS ON MALL
DETENTION SCREENS AT CHARLES V. CHAPIN HOSPITAL
ROOF REPAIRS AT CITY HALL
ROOF REPAIRS AT #141 FOUNTAIN ST. (CITY HALL ANNEX)
ROOF REPAIRS AT OLD HOPE HIGH SCHOOL
ROOF REPAIRS AT CHARLES V. CHAPIN HOSPITAL

9. SUPERVISED ELECTRICAL REPAIR WORK IN TABULATING ROOM, RECORDER OF DEEDS OFFICE, AND CITY PLAN OFFICE IN THE CITY HALL; ALSO IN INSPECTOR OF BUILDINGS DEPARTMENT AT #112 UNION STREET.

10. SETTING UP AND DISMANTLING OF EQUIPMENT FOR THE BOARD OF CANVASSERS.

11. SUPERVISED THE REPAIR OF BACKSTOPS AND FENCES AT SEVERAL RECREATION FIELDS FOR THE DEPARTMENT OF RECREATION.

12. SUPERVISED PLUMBING REPAIRS AT THE MUNICIPAL GARAGE.

13. SUPERVISED THE INSTALLATION OF ELECTRICAL FIXTURES AT LA SALLE SQUARE HEADQUARTERS OF POLICE DEPARTMENT.

14. SUPERVISED PAINTING AT CHAD BROWN POLICE STATION.

15. SUPERVISED ROOF REPAIRS AT ALLENS AVENUE, ATWELLS AVENUE, MESSER STREET, ADMIRAL STREET, HUMBOLDT AVENUE AND RESERVOIR AVENUE FIRE STATIONS.

16. SUPERVISED PAINTING WORK AT BUCKLIN STREET FIRE TOWER.

17. SUPERVISED THE FOLLOWING WORK AT ROGER WILLIAMS PARK:

PORCH REPAIRS	CASINO
ELECTRICAL REPAIRS	MUSEUM
ELECTRICAL REPAIRS	ELEPHANT HOUSE
NEW SMOKE STACK	GREENHOUSE
ELECTRICAL WORK FOR CHRISTMAS DISPLAY	

18. SUPERVISED PAINTING OFFICES AT MONTAGUE STREET WELFARE BUILDING.

19. SUPERVISED ROOF REPAIRS AT OXFORD STREET BUILDING OF CIVIL DEFENSE HEADQUARTERS.

20. SUPERVISED VARIOUS CARPENTRY REPAIRS, PLUMBING AND HEATING REPAIRS, ELECTRICAL WORK AND NEW SMOKESTACK AT EXCHANGE PLACE COMFORT STATION.

21. SUPERVISED THE PREPARATION OF PLANS AND SPECIFICATIONS FOR HEATING ALTERATIONS AT THE NATHAN BISHOP AND ROGER WILLIAMS JUNIOR HIGH SCHOOLS, BIDS FOR WHICH WERE RECEIVED ON SEPTEMBER 26, 1961.

WORK UNDER CONSTRUCTION AND BEING DONE UNDER THE SUPERVISION OF THIS SECTION DURING THE FISCAL YEAR ENDING SEPTEMBER 30, 1961, AMOUNTS TO APPROXIMATELY THREE MILLION (\$3,000,000.00) DOLLARS.

DRAW BRIDGE OPERATION SECTION

THIS SECTION IS RESPONSIBLE FOR THE OPERATION OF THE TWO DRAW BRIDGES (POINT STREET BRIDGE AND RED BRIDGE) OWNED AND OPERATED BY THE CITY OF PROVIDENCE. THE MEN IN THIS SECTION ALSO 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. THIS SECTION ALSO OPERATED POINT STREET BRIDGE FOR THE 212 OPENINGS WHICH WERE MADE FOR THE CONTRACTOR ON THE HURRICANE BARRIER.

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0	PERSONAL SERVICES	\$45,122.82
ITEM 1	SERVICES OTHER THAN PERSONAL	842.26
ITEM 2	MATERIALS AND SUPPLIES	306.73
	TOTAL	<u>\$46,271.81</u>
REVENUE		\$ 36.86

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 MADE 212 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 TOTALS OF VESSELS AND OPENINGS AND AVERAGE TIME FOR OPENINGS FOR THE FISCAL YEAR AND THE FISCAL YEAR IMMEDIATELY PRECEDING.

SUMMARY OF OPERATIONS FOR YEAR ENDING SEPTEMBER 30, 1961

SUMMARY OF OPERATIONS FOR YEAR ENDING SEPT. 30, 1960

	STEAMERS	TUGS	SAIL BOATS	BARGES	MISCELLANEOUS	TOTAL NO. VESSELS YEAR, 1960-1961	TOTAL OPENINGS YEAR 1960-1961	AVERAGE TIME OPENING TO CLOSE OF GATES(MIN.)	TOTAL NO. VESSELS YEAR 1959-1960	TOTAL OPENINGS YEAR 1959-1960	AVERAGE TIME OPENING TO CLOSE OF GATES(MIN.)
<u>POINT STREET BRIDGE</u>											
OCTOBER						0	0		0	0	
NOVEMBER		1		1		2	1	20	0	0	
DECEMBER						0	0	0	0	0	
JANUARY		1		1		2	1	20	0	0	
FEBRUARY						0	0		0	0	
MARCH		2		2		4	2	28.5	0	0	
APR.		7		7		14	7	20.7	0	0	
MAY		53		53		106	53	16.6	0	0	
JUNE		19		19		38	19	10.0	0	0	
JULY		11		11		22	11	10.0	0	0	
AUGUST		2		2		4	2	10.0	0	0	
SEPTEMBER		10		10		20	10	9	0	0	
		106		106		212	106		0	0	
<u>RED BRIDGE</u>											
OCTOBER	14	26		12	7	59	43	4.65	65	43	3.46
NOVEMBER	10	14		9		33	23	5.09	78	49	4.24
DECEMBER	18	22	4	10		54	37	5.05	79	40	5.40
JANUARY	24	31		12		67	51	4.31	87	56	4.73
FEBRUARY	14	20		6		40	30	4.67	57	38	4.60
MARCH	10	19	9	3		41	31	4.58	48	32	4.96
APRIL	8	19		7	4	38	27	4.74	68	45	4.35
MAY	20	26		14	4	64	45	4.56	59	34	4.67
JUNE	18	23		12	3	56	35	5.06	69	47	4.56
JULY	20	10		0	10	40	33	4.42	57	40	5.55
AUGUST	10	22	2	12	5	51	34	5.47	36	30	4.23
SEPTEMBER	9	20		12	2	43	30	6.00	55	39	4.48
	175	252	15	109	35	586	419		758	493	

THE FOLLOWING TABLE SHOWS THE TOTAL NUMBER OF CRAFT PASSING THROUGH THE
DRAWBRIDGES BEGINNING THE YEAR 1907:

FROM 1907 TO 1928, INCLUSIVE, YEARS ENDING DECEMBER 31.

YEAR 1929 INCLUDES 9 MONTHS ONLY, AND ENDS SEPTEMBER 30.

FROM 1930 TO DATE, YEARS END SEPTEMBER 30.

YEAR	POINT STREET BRIDGE	RED BRIDGE	YEAR	POINT STREET BRIDGE	RED BRIDGE
1907	25,949	2,632	1933-34	1,990	3,750
1908	21,767	4,852	1934-35	1,307	2,454
1909	17,128	6,914	1935-36	1,468	2,150
1910	17,125	2,927	1936-37	1,368	2,130
1911	20,078	3,293	1937-38	1,136	1,913
1912	21,519	3,021	1938-39	1,676	2,187
1913	15,113	2,734	1939-40	1,299	3,431
1914	13,364	2,491	1940-41	1,066	2,420
1915	14,409	2,755	1941-42	1,205	1,722
1916	11,638	3,368	1942-43	1,263	1,087
1917	9,704	3,273	1943-44	1,487	2,262
1918	6,894	2,680	1944-45	1,233	1,319
1919	7,123	3,467	1945-46	1,078	1,828
1920	6,950	4,451	1946-47	936	1,640
1921	6,067	2,001	1947-48	1,010	1,541
1922	5,307	2,958	1948-49	666	2,130
1923	5,476	5,134	1949-50	638	1,609
1924	4,858	2,035	1950-51	371	1,973
1925	4,939	1,942	1951-52	125	1,628
1926	5,198	2,415	1952-53	202	1,752
1927	4,700	2,934	1953-54	51	2,787
1928	4,679	3,912	1954-55	883	1,313
1929	4,068	3,623	1955-56	141	1,536
1929-30	3,210	2,738	1956-57	16	1,189
1930-31	3,243	2,742	1957-58	9	1,076
1931-32	1,197	1,900	1958-59	6	1,021
1932-33	1,327	2,787	1959-60	0	758
			1960-61	212	586

BRIDGE	GREATEST NUMBER OF OPENINGS IN ANY ONE DAY.		DAILY AVERAGE NUMBER OF OPENINGS FOR THE YEAR.	
	1959-1960	1960-1961	1959-1960	1960-1961
RED	8	8	1.35	1.15
POINT	1	11	.008	0.58

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, 1961, WAS \$498,000.00.

THE EXPENDITURES OF THIS SECTION WERE AS FOLLOWS:

ITEM 0	PERSONAL SERVICES	\$ 4,695.60
ITEM 1	SERVICES OTHER THAN PERSONAL	<u>482,709.99</u>
	TOTAL	\$ 487,405.59

REVENUE	\$ 101.50
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STREET LIGHTING COSTS:

INCANDESCENTS & MERCURYS

<u>1960</u>	<u>TOTAL BILL</u>	<u>LESS OUTAGE</u>	<u>NET COST</u>
OCTOBER	\$40,179.25	\$106.88	\$40,072.37
NOVEMBER	40,098.97	178.88	39,920.09
DECEMBER	40,176.44	183.98	39,992.46
<u>1961</u>			
JANUARY	40,169.96	229.19	39,940.77
FEBRUARY	40,201.42(*)	(*) 385.53	39,815.89
MARCH	40,206.13	172.47	40,033.66
APRIL	40,304.57	146.17	40,158.40
MAY	40,253.54	111.06	40,142.48
JUNE	40,270.11	87.52	40,182.59
JULY	40,299.83	72.96	40,226.87
AUGUST	40,284.22	89.14	40,195.08
SEPTEMBER	40,327.01	162.27	40,164.74

(*) FEBRUARY 4, 1961, BLIZZARD - CITY WAS ALLOWED ADDITIONAL OUTAGE BY NARRAGANSETT ELECTRIC COMPANY FOR SEVERAL SERIES CIRCUITS RENDERED INOPERATIVE.

STREET LIGHTING UNIT COSTS

UNDER THE PROVISIONS OF TERMS AND CONDITIONS FOR STREET LIGHTS - THIS BEING THE SO-CALLED "FUEL CLAUSE" - THE COST OF THE STREET LIGHTS FOR THE YEAR BEGINNING OCTOBER 1, 1960, DEPENDED UPON THE COST OF FUEL FOR THE YEAR ENDING JULY 31, 1961. THIS COST AVERAGED \$9.90 PER STANDARD NET TON. THIS IS \$0.85 BELOW THE BASE PRICE OF \$10.75. ALL BASE PRICES SHOWN IN THE RATE SCHEDULE WILL THEREFORE BE DECREASED BY AN AMOUNT OBTAINED BY MULTIPLYING THE DECREASE PER TEN CENT VARIATION BY 8. A TABULATION SHOWING THE UNIT PRICES FOR THE YEAR BEGINNING OCTOBER 1, 1961, IS AS FOLLOWS:

	ANNUAL DECREASE PER 10¢ DECREASE IN COST OF FUEL ABOVE \$10.75 BASE	NO. OF 10¢ BELOW \$10.75 BASE FUEL PRICE	DECREASE TO BASE PRICE	ANNUAL BASE PRICE	NET PRICE
<u>INCANDESCENT 100 CP.</u>					
U.G. ALL NIGHT	.021	8	.17	29.12	48.95
U.G. SINGLE, ½ NIGHT	.009	8	.07	25.11	25.04
AERIAL SINGLE, A.N.	.021	8	.17	16.09	15.92
AERIAL SINGLE, ½ NIGHT	.009	8	.07	10.40	10.33
<u>MISCELLANEOUS</u>					
250 C.P. U.G. A.N.	.043	8	.34	52.19	51.85
250 C.P. AERIAL, A.N.	.043	8	.34	32.19	31.85
1000 C.P. AERIAL, A.N.	.132	8	1.06	72.51	71.45
1000 C.P. U.G. A.N.	.132	8	1.06	92.51	91.45
1000 C.P. U.G. ½ NIGHT	.066	8	.58	72.39	71.81
250 C.P. U.G. ½ NIGHT	.022	8	.19	43.74	43.55
10,000 LUMEN SODIUM, U.G.	.049	8	.39	87.22	86.83
10,000 LUMEN SODIUM, O.H.	.049	8	.39	67.22	66.83
600 C.P. INCANDESCENT, O.H.	.088	8	.70	53.57	52.87
600 C.P. INCANDESCENT, U.G.	.088	8	.70	73.57	72.87
15,000 LUMEN MERCURY, O.H.	.097	8	.78	71.95	71.17
15,000 LUMEN MERCURY, U.G.	.097	8	.78	91.95	91.17
15,000 LUMEN MERCURY, U.G. 2 LT.	.194	8	1.55	165.90	164.35
15,000 LUMEN MERCURY					
UNDERPASSES 24 HR.	.47	8	2.34	123.16	120.82
21,000 LUMEN O.H.	---	-	----	100.00	100.00
21,000 LUMEN U.G.	---	-	----	120.00	120.00
6,800 LUMEN O.H. MERC.	---	-	----	55.00	55.00
6,800 LUMEN U.G. MERC.	---	-	----	75.00	75.00

RATES

THE RATES WHICH ARE AFFECTED BY FUEL COSTS ARE:

GENERAL SERVICE RATE D

POWER RATE F

POWER RATE G

NARRAGANSETT ELECTRIC COMPANY FUEL COSTS

THE AMOUNT DETERMINED UNDER THE PRECEEDING PROVISIONS SHALL BE INCREASED OR DECREASED BY .000005 PER KILOWATT HOUR FOR EACH \$.01 INCREASE OR DECREASE IN COST OF FUEL, AS DEFINED IN THE COMPANY'S TERMS AND CONDITIONS, ABOVE OR BELOW \$10.75 PER NET TON. THE COST OF FUEL FOR ANY MONTH SHALL AFFECT THE PRICE OF ELECTRICITY BILLED IN THE SECOND MONTH FOLLOWING SUCH MONTH.

THE COST OF FUEL BY MONTH WAS AS FOLLOWS:

1960 SEPTEMBER	\$ 9.949(*)
OCTOBER	9.819
NOVEMBER	9.736
DECEMBER	9.816
1961 JANUARY	9.826
FEBRUARY	9.748
MARCH	9.874
APRIL	9.912
MAY	9.925
JUNE	10.061
JULY	10.233
AUGUST	10.074

THE ABOVE FIGURES SHOW THAT THE AVERAGE PRICE PER TON FOR THE YEAR WAS \$9.90 PER TON.

(*) = STANDARD NET TON.

POLICE REPORT ON OUTAGES

1. LIGHTS OUT ALL NIGHT, BUT ONLY DEDUCTED AT POLICE REPORT OBSERVATION TIME.
2. LIGHTS OUT SUCCESSIVE NIGHTS, NOT REPORT OF OUTAGES.

ARTICLE #8 PROPOSED CONTRACT AGREEMENT CITY OF
PROVIDENCE-NARRAGANSETT ELECTRIC
(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.

<u>NEIGHBORHOOD LIGHTS</u>	<u>COST PER YEAR</u>	<u>COST PER NIGHT</u>
OVERHEAD 1000 LUMENS	\$15.90	\$.04
UNDERGROUND 1000 LUMENS	28.93	.08
OVERHEAD 2500 LUMENS	31.80	.09
OVERHEAD 15000 LUMEN MERCURYS	71.08	.19
UNDERGROUND 15000 LUMEN MERCURYS	91.08	.25
(DOWN TOWN)		

ROGER WILLIAMS PARK
UNDERGROUND 1000 LUMEN $\frac{1}{2}$ NIGHT

COST PER YEAR
\$25.03

COST PER NIGHT
\$.07

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 DEDUCTIBLE.

NUMBER OF LAMPS REPORTED OUT

THE NUMBER OF LAMPS AND GLOBES REPORTED AS BROKEN ON STREET LIGHTS DURING THE YEARS 1959-1960-1961 IS AS FOLLOWS:

	<u>INCANDESCENT</u>	<u>LIGHTS BROKEN</u>	<u>MERC. GLOBES</u>
1959-1960	9	3981	78
1960-1961	1	5716	122

MALL PARKING DECK LIGHTS
1 FRANCIS STREET

THE MALL PARKING DECK LIGHTS ARE CHARGED TO THE GENERAL STREET LIGHTING ACCOUNT. HOWEVER, THEY WILL NOT SHOW ON THE SCHEDULE BECAUSE THEY ARE ON A SEPARATELY METERED CIRCUIT AND DO NOT COME UNDER THE CONTRACT PRICE PER LIGHT UNIT. THEY ARE METERED ON A "G" RATE, AND SO MUCH PER K.W.

<u>NO. OF LIGHTS</u>	<u>TYPE OF LIGHT</u>	<u>HOURS OF BURNING</u>
12 U.G.	20,000 LUMEN M.V.	24 HOURS
14 U.G.A.N.	20,000 LUMEN M.V.	PREDETERMINED FT.CANDLE LEVEL
18 U.G.A.N.	2,500 LUMEN INC.	PREDETERMINED FT.CANDLE LEVEL

THE 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

<u>MONTH</u>	<u>K. W. USED</u>	<u>BILL</u>
OCTOBER 1960	3660 K.W.	\$91.07
NOVEMBER 1960	4250 K.W.	85.87
DECEMBER 1960	4940 K.W.	89.86
JANUARY 1961	4620 K.W.	86.41
FEBRUARY 1961	4440 K.W.	84.75
MARCH 1961	5160 K.W.	92.14
APRIL 1961	5700 K.W.	111.53
MAY 1961	4640 K.W.	101.04
JUNE 1961	4560 K.W.	90.91
JULY 1961	5140 K.W.	96.89
AUGUST 1961	4800 K.W.	93.73
SEPTEMBER 1961	5160 K.W.	97.89
		<u>\$1122.09</u>

SIGN INSPECTION

SIGNS INSPECTED FOR OVERHEAD WIRE CLEARANCE

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NUMBER & KIND OF STREET LIGHTING UNITS IN SERVICE IN PROVIDENCE SINCE 1928

YEAR	BRIDGE STRUCTURE 24 HR. BURNING	<u>ARCS</u>		<u>INCANDESCENTS</u>				<u>SODIUM</u>		<u>MERCURY</u>		6800LUM.
		1520	100CP	250CP	400CP	750W	300W	1000CP	600CP	1000CP	400CP	
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		1513	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	312	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	22	3593	7
1960	44	0	8244	519	0	0	0	345	29	22	3623	42
1961	44	0	8212	547	0	0	0	331	29	21	3607	88

RECAPITULATION

GRAND TOTAL	\$ 480,845.40
TOTAL MONTHLY AVERAGE COST 1959-1960	38,317.67
TOTAL MONTHLY AVERAGE COST 1960-1961	40,070.45
INCREASE FROM PREVIOUS YEAR OF THE TOTAL	
COSTS OF STREET LIGHTING	1,752.78
TOTAL SAVINGS IN OUTAGES	1,926.05

NEW STREET LIGHT PETITIONS RECEIVED	81
GRANTED	69
REJECTED	4
HOLD	8
UTILITY POLE PETITIONS RECEIVED AND FIELD CHECKED	318

SUMMARY

THERE ARE NOW 3607, 15,000 LUMEN MERCURY VAPOR LIGHTS IN SERVICE.

THERE ARE EIGHTY-EIGHT (88) 7000 LUMEN MERCURY VAPOR LIGHTS IN SERVICE.

THE NUMBER OF 2,500 LUMEN INCANDESCENT LIGHTS HAVE BEEN INCREASED BY TWENTY-EIGHT (28), BRINGING THE TOTAL NUMBER OF THIS TYPE OF LIGHT NOW IN USE TO 547.

THERE ARE 331 - 10,000 LUMEN LIGHTS IN SERVICE IN THE CITY THAT WILL BE REPLACED WITH 15,000 LUMEN MERCURY VAPOR LIGHTS IN THE NEAR FUTURE.

THERE ARE 8212 - 1000 LUMEN LIGHTS IN SERVICE (FAMILIAR NEIGHBORHOOD TYPE). THERE HAVE BEEN 50 LIGHTS OF THIS TYPE INSTALLED DURING THE PAST FISCAL YEAR, ON STREET LIGHT PETITIONS.

SHOPS AND STORES

THE CONSTRUCTION AND MAINTENANCE SHOPS & 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 & MAINTENANCE SHOPS AND STORES

THIS SECTION HAS NO BUDGET ALLOWANCE. ALL EXPENSES FOR LABOR AND MATERIALS ARE PAID FOR WITH THE MONEY RECEIVED FROM THE EQUIPMENT RENTALS, AND FROM STOCK AND JOB ORDERS TOGETHER WITH THE INITIAL CAPITAL APPROPRIATED.

THIS SECTION IS RESPONSIBLE FOR PROCURING, SERVICING, MAINTAINING AND REPAIRING ALL EQUIPMENT, MATERIALS AND SUPPLIES REQUIRED BY THE FOLLOWING SECTIONS AND DIVISIONS:

PUBLIC WORKS ADMINISTRATION	BRIDGE MAINTENANCE SECTION
PUBLIC SERVICE ENGINEER	SNOW REMOVAL SECTION
ENGINEERING OFFICE	FORESTRY SECTION
BUSINESS MANAGEMENT OFFICE	SIDEWALKS AND CURBING SECTION
HIGHWAY SECTION	PUBLIC BUILDING SECTION
DRAWBRIDGE OPERATION SECTION	STREET CLEANING SECTION
STREET LIGHTING SECTION	FAMILY RELOCATION SERVICE

ALL AUTOMOTIVE AND MOBILE OR PORTABLE CONSTRUCTION AND MAINTENANCE EQUIPMENT USED BY THE ABOVE AGENCIES IS OBTAINED FROM THIS SECTION AND PAID FOR ON A RENTAL BASIS.

A LIST OF THE AVAILABLE RENTAL EQUIPMENT IS AS FOLLOWS:

2 COMPRESSORS, TRUCK MOUNTED	1 HOIST TRUCK 5000#
33 DUMP TRUCKS 4 CU. YDS.	2 BULLDOZERS TD 18
6 DUMP TRUCKS, 6 CU.YDS.	1 SKY WORKER
5 DUMP TRUCKS, 3 CU.YDS.	1 WELDER, ELECTRIC PORTABLE
3 PICKUP TRUCKS, 3/4 TON	2 SHOVELS 3/4 CU.YDS.
1 STAKE BODY TRUCK, 1 TON	6 ROAD GRADERS
1 PANEL TRUCK, 1/2 TON	2 MIST SPRAYERS
1 EXPRESS BODY TRUCK, 2 1/2 TON	2 CONCRETE MIXERS 3 S
1 EXPRESS BODY TRUCK, 1/2 TON	9 STREET SWEEPERS
3 CARGO TRUCKS, 6 TON	9 SNOW LOADERS
10 PASSENGER CARS	5 LAWN MOWERS - POWER
7 AIR COMPRESSORS - PORTABLE	19 TAIL GATE SPREADERS
1 TRAILER 25 TON FLATBED WITH TRACTOR	30 SNOW PLOWS
1 GRADALL	3 FRONT END LOADERS
1 STATION WAGON	2 ROLLERS 10-14 TON TANDEM
2 HOIST TRUCKS 2500#	1 FORK LIFT
1 ROLLER 8-12 TON TANDEM	1 ROLLER 10-12 TON TANDEM
1 ROLLER 10-12 TON 3 WHEEL	1 PAVER, ASPHALT
1 ROLLER 305 TON PORTABLE	3 TOOL HEATERS
2 WALTERS SNOW FIGHTERS	5 GENERATORS, PORTABLE
2 ROLLERS 305 TON TANDEM	6 TOOL WAGONS
	3 LEAF COLLECTORS

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

DURING THE YEAR THE FOLLOWING NEW EQUIPMENT WAS PURCHASED BY THE SECTION AND INCORPORATED IN THE RENTAL POOL:

5 DUMP TRUCKS 4 CU.YDS.	1 SWEEPER
1 TOOL WAGON	1 HOIST TRUCK 2500#
1 PASSENGER CAR	1 FRONT END LOADER
2 ROAD GRADERS	1 LEAF COLLECTOR
3 DUMP TRUCKS, 6 CU. YDS.	20 SNOW PLOWS

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

1 FORK LIFT	AUTOMOTIVE REPAIR SHOP
1 AIR COMPRESSOR	PAINT SHOP
1 EMERGENCY MOTOR & GENERATOR	POINT STREET BRIDGE
1 BULLDOZER TD 9	CITY DUMP
2 BUCKETS, CLAMSHELL	INCINERATOR
4 BUCKETS, ORANGE PEEL	SEWER 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 \$55,323.69 IN MATERIALS AND SUPPLIES AND PARTS WAS ON HAND IN THE STOCK ROOM ON SEPTEMBER 30, 1961.

SEWER CONSTRUCTION & MAINTENANCE SHOPS & STORES

THIS SECTION HAS NO BUDGET ALLOWANCE. ALL OPERATING EXPENSES FOR LABOR AND MATERIALS ARE PAID FOR WITH THE MONEY RECEIVED FROM THE EQUIPMENT RENTALS AND FOR THE STOCK AND JOB ORDERS TOGETHER WITH THE INITIAL CAPITAL APPROPRIATED.

THIS SECTION IS RESPONSIBLE FOR PROCURING, SERVICING, MAINTAINING AND REPAIRING ALL EQUIPMENT, MATERIALS AND SUPPLIES REQUIRED BY THE CONSTRUCTION AND MAINTENANCE ADMINISTRATION, AND THE SEWER CONSTRUCTION AND MAINTENANCE SECTION. ALL AUTOMOTIVE AND CONSTRUCTION EQUIPMENT USED BY THESE SECTIONS IS OBTAINED FROM THIS SECTION ON A RENTAL BASIS.

A LIST OF AVAILABLE RENTAL EQUIPMENT IS AS FOLLOWS:

4	EDUCTORS	4	AIR COMPRESSORS - PORTABLE
3	DERRICK TRUCKS	3	CENTRIFUGAL PUMPS (6 IN.)
4	PASSENGER CARS	1	CENTRIFUGAL PUMP (4 IN.)
4	DUMP TRUCKS	2	CENTRIFUGAL PUMPS (3 IN.)
2	CARGO TRUCKS (2 TON)	1	DIAPHRAGM PUMP (4 IN.)
1	CARGO TRUCK (1 TON)	1	CENTRIFUGAL PUMP (1½ IN.)
1	PICKUP TRUCK	1	SEWER ROD POWER DRIVER
1	SET OF SEWER WENCHES	1	DIAPHRAGM PUMP (3 IN.)
1	ELECTRIC GENERATOR		

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

DURING THE YEAR THE FOLLOWING EQUIPMENT WAS PURCHASED.

1	CENTRIFUGAL PUMP (6 IN.)	1	PASSENGER CAR
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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, ETC., FOR WHICH THE SEWER MAINTENANCE SECTION IS RESPONSIBLE. SOME WORK FOR AGENCIES OUTSIDE THE SEWER MAINTENANCE SECTION IS PERFORMED PRIMARILY BY THE CARPENTER SHOP.

THE WORK IN EITHER CASE IS PAID FOR BY THE AGENCY CONCERNED, BY PAYING FOR THE TOTAL COST OF BOTH LABOR AND MATERIALS PLUS 10% OF THE TOTAL COST. THE REVENUE THUS EARNED IS USED TO DEFRAY THE COST OF OPERATION PLUS THE COST OF EQUIPMENT REPLACEMENT.

THE STOCK ROOM CARRIES MUCH OF THE MATERIALS, PARTS AND SUPPLIES REQUIRED BY THE SEWER MAINTENANCE SECTION.

AN INVENTORY OF \$22,172.19 IN MATERIALS AND SUPPLIES AND PARTS WAS ON HAND IN THE STOCK ROOM ON SEPTEMBER 30, 1961.

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, GLENBRIDGE AVENUE, WEST RIVER STREET 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 BRIDGE IN POST OFFICE SQUARE, MARKET SQUARE AND CRAWFORD STREET AREAS SHOULD BE THOROUGHLY SCRAPPED AND PAINTED.

5. THE STEEL WORK ON THE SHORE SPANS OF RED BRIDGE IS IN VERY POOR CONDITION AND THE WHOLE BRIDGE SHOULD BE SCRAPPED AND PAINTED. AT PRESENT THERE ARE 16 WOOD BEAMS BESIDE EACH OF THE RUSTED BEAMS TO ASSURE ADEQUATE SUPPORT. THIRTY-TWO (32) NEW STEEL CROSS BRACES HAVE BEEN ERECTED IN PLACE OF THE RUSTED OUT BRACES. MANY OF THE HORIZONTAL MEMBERS HAVE BEEN PATCH 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 SIX ROAD GRADERS BE REPLACED. TWO OF THESE REQUIRE EXTENSIVE REPAIRS AND THE STEPPED UP REPLACEMENT PLAN SHOULD CONTINUE SO AS TO CUT DOWN THE COST OF OPERATION. ONE GRADER WAS REPLACED DURING THE PAST YEAR.

7. A NEW FENCE IS REQUIRED ALONG THE RAILROAD RETAINING WALL ON HARRIS AVENUE.

8. THE 1951 LORRAINE SHOVEL IS IN NEED OF CONSTANT REPAIRS AND SHOULD BE REPLACED WITH A HEAVY 3/4 YD. SHOVEL NOT LESS THAN 45,000# IN WEIGHT.

9. A NEW PUMP SHOULD BE PURCHASED FOR THE SEWER MAINTENANCE SECTION - 1 - 4" 30M.

10. NEW FACILITIES FOR USE OF THE HIGHWAY, BRIDGE MAINTENANCE, STREET CLEANING AND CONSTRUCTION SHOPS AND STORES ARE BEING BUILT TO REPLACE FACILITIES AT THE HIGHWAY YARD WHICH WERE CONDEMNED FOR THE NORTH-SOUTH FREEWAY. AT PRESENT THESE AGENCIES, EXCEPT BRIDGE MAINTENANCE, ARE HOUSED IN THE NEW BUILDING WHILE THE WORK IS PROGRESSING.

11. MERINO PARK FOOTBRIDGE SHOULD BE COMPLETELY REBUILT. THE PILES ARE IN VERY BAD CONDITION.

12. A MAINTENANCE GANG OF ONE FOREMAN AND SIX MEN SHOULD BE SET UP FOR THE CONSTRUCTION & MAINTENANCE DIVISION TO MAINTAIN THE BUILDINGS OF THE PUBLIC WORKS DEPARTMENT SUCH AS THE STORAGE AND TRANSIT SHEDS AT FIELDS POINT, FIELDS POINT DOCK OFFICE, HARBOR MASTER'S BUILDING, HOUSE AND BUILDING AT THE RED BRIDGE, BRICK BUILDINGS AT SEWER SYPHON ON INDIA STREET AND GLOBE STREET, INCINERATOR BUILDINGS, INCINERATOR GARAGE, SEWER MAINTENANCE BUILDINGS, HIGHWAY BUILDINGS, FORESTRY BUILDINGS AND RAILROAD TRACKS AT FIELDS POINT, THE WASHINGTON PARK PUMPING STATION, THE RESERVOIR AVENUE PUMPING STATION AND THE ERNEST STREET PUMPING STATION.

THERE ARE MANY ITEMS THAT SHOULD BE MAINTAINED OR REPAIRED AT THE PRESENT TIME. SOME OF THIS WORK HAS OR IS PRESENTLY BEING ACCOMPLISHED BY THE BRIDGE MAINTENANCE GANG AND THE CARPENTERS AND MASONS FOR THE SEWER SHOPS AND STORES AND THE CONSTRUCTION AND MAINTENANCE SHOPS AND STORES; BUT IT COULD BE BETTER ACCOMPLISHED BY ASSIGNING A DEFINITE RESPONSIBILITY FOR THIS WORK.

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:

FOLLOWING IS THE ANNUAL REPORT OF THE SANITATION DIVISION OF THE PUBLIC WORKS DEPARTMENT FOR THE FISCAL YEAR 1960-1961. THIS DIVISION IS DIVIDED INTO THE FOLLOWING SECTIONS:

SANITATION ADMINISTRATION.	SEWAGE DISPOSAL WORKS.
STREET CLEANING.	REFUSE COLLECTION AND DISPOSAL.
SEWAGE PUMPING STATION.	GARBAGE COLLECTION AND DISPOSAL.

SANITATION SHOP AND STORES.

SANITATION ADMINISTRATION

THE OFFICE PERSONNEL HANDLES ALL THE NECESSARY CLERICAL WORK PERTAINING TO THE REFUSE COLLECTION AND DISPOSAL SECTION, THE SEWAGE PUMPING STATION SECTION, THE SANITATION SHOP AND STORES AND A PORTION OF THE WORK ASSOCIATED WITH THE SEWAGE DISPOSAL WORKS SECTION AND GARBAGE COLLECTION AND DISPOSAL SECTION.

CONDENSED RECORDS FROM ALL SECTION 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	\$11,718.20
ITEM 1 SERVICES OTHER THAN PERSONAL	867.97
ITEM 2 MATERIALS AND SUPPLIES	<u>21.83</u>
TOTAL	\$12,608.00

STREET CLEANING SECTION

THIS SECTION IS RESPONSIBLE FOR THE CLEANING OF ALL STREETS AND HIGHWAYS WITHIN THE CITY AND THE MAINTENANCE AND CARE OF ALL THE TRASH CANS SITUATED BOTH DOWNTOWN AND IN THE OUTLYING SECTIONS OF THE CITY.

THE STREETS IN THE DOWNTOWN SECTION OF THE CITY, BOUNDED BY DYER STREET, SOUTH MAIN STREET, WASHINGTON ROW, UNION STATION, WEST EXCHANGE STREET, ABORN STREET, EMPIRE STREET, CHESTNUT STREET AND CLIFFORD STREET ARE CLEANED DAILY.

THE FOLLOWING STREETS AND SQUARES ARE ALSO CLEANED DAILY:

BROADWAY FROM LASALLE SQUIRE TO OLNEYVILLE SQUARE
WESTMINSTER STREET FROM EMPIRE STREET TO HOYLE SQUARE
WEYBOSSET STREET FROM EMPIRE STREET TO CATHEDRAL SQUARE
BROAD STREET FROM EMPIRE STREET TO TRINITY SQUARE
ATWELLS AVENUE FROM ABORN STREET TO RIDGE STREET
POCASSET AVENUE FROM OLNEYVILLE SQUARE TO CITY LINE

WILLARD AVENUE FROM GAY STREET TO PRAIRIE AVENUE
 RANDALL STREET FROM CHARLES STREET TO NORTH MAIN STREET
 SMITH STREET FROM STATE HOUSE TO OAKLAND AVENUE
 DOUGLAS AVENUE FROM ADMIRAL STREET TO MOWRY STREET
 PLAINFIELD STREET FROM HARTFORD AVENUE TO WEBSTER AVENUE
 GAY STREET FROM WILLARD AVENUE TO BLACKSTONE STREET
 NORTH MAIN STREET FROM COLLEGE HILL TO MILL STREET
 CHARLES STREET FROM RAILROAD BRIDGE TO CITY LINE
 SOUTH MAIN STREET FROM COLLEGE HILL TO POINT STREET
 WICKENDEN STREET FROM EAST STREET TO IVES STREET
 IVES STREET FROM WICKENDEN STREET TO POWER STREET
 GOVERNOR STREET FROM WICKENDEN STREET TO POWER STREET
 WAYLAND AVENUE FROM WATERMAN STREET TO ANGELL STREET
 SOUTH ANGELL STREET FROM WAYLAND AVENUE TO BUTLER AVENUE
 BUTLER AVENUE FROM SOUTH ANGELL STREET TO WATERMAN STREET
 ANGELL STREET FROM BUTLER AVENUE TO WAYLAND AVENUE
 HOPE STREET FROM LANGHAM ROAD TO SIXTH STREET
 HARTFORD AVENUE FROM LAUREL HILL AVENUE TO OLNEYVILLE SQUARE
 THAYER STREET FROM BROOK STREET TO WATERMAN STREET
 WATERMAN STREET FROM THAYER STREET TO BROOK STREET
 CRANSTON STREET FROM DEXTER STREET TO CITY LINE
 POTTERS AVENUE FROM CRANSTON STREET TO DEXTER STREET
 EAGLE PARK SQUARE OLNEYVILLE SQUARE
 RANDALL SQUARE TRINITY SQUARE
 WAYLAND SQUARE WASHINGTON SQUARE

A CREW OF MEN WITH HAND BROOMS AND HAND PUSH BARRELS ARE ASSIGNED TO THE DOWNTOWN AREA AND THE OUTLYING SECTIONS OF THE CITY TO KEEP THESE SECTIONS FREE FROM DEBRIS.

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

172 TRASH CANS WERE EMPTIED FOUR TIMES DAILY. 35 NEW CANS WERE PURCHASED TO REPLACE BROKEN CANS.

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

THREE DUAL GUTTER BROOM SWEEPERS ARE IN SERVICE AND ARE CAPABLE OF CLEANING GUTTERS FROM EITHER SIDE OF THE SWEEPER, AND ARE ADVANTAGEOUS ON ONE WAY STREETS.

THREE FRONT END LOADERS WERE USED TO PICK UP THE SWEEPER DUMPS AND LOAD THEM IN TRUCKS FOR DISPOSAL.

TWO LARGE TRUCKS WERE USED IN THE FALL TO PICK UP LEAVES. THESE TRUCKS ARE EQUIPPED WITH EAGAN LEAF COLLECTORS AND HAVE A CAPACITY OF 10 TONS. AN OPERATOR AND TWO LABORERS ARE NEEDED FOR THIS OPERATION.

AN EMERGENCY CREW WAS ON DUTY TWENTY-FOUR HOURS A DAY TO HANDLE COMPLAINTS FROM THE GENERAL PUBLIC AND TO CORRECT CONDITIONS OUTLINED IN POLICE REPORTS.

A SUMMARY OF OPERATIONS FOR THIS SECTION FOLLOWS:

HAND BROOM SWEEPING	190 MILES
MACHINE BROOM SWEEPING	13,507 MILES
BEAT PATROL	9,457 MILES
HAND BROOM DISPOSAL	3,782 TONS
MACHINE BROOM DISPOSAL	10,173 TONS
STREET CONTAINER DISPOSAL	7,937 TONS
STORM DEBRIS	784 TONS
MISCELLANEOUS DEBRIS	91 TONS

THE EXPENDITURES FOR THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$ 335,467.16
ITEM 1 SERVICES OTHER THAN PERSONAL	79,479.15
ITEM 2 MATERIALS AND SUPPLIES	2,221.47
ITEM 5 CAPITAL OUTLAY	<u>1,351.12</u>
TOTAL	\$ 418,518.90

SEWAGE DISPOSAL WORKS

THIS SECTION IS RESPONSIBLE FOR THE TREATMENT AND DISPOSAL OF ALL SEWAGE FROM THE CITY OF PROVIDENCE, TOWN OF NORTH PROVIDENCE, TOWN OF JOHNSTON, AND WASTES FROM THE NARRAGANSETT BREWING COMPANY, CRANSTON, R.I. THE DISPOSAL PLANT IS LOCATED IN THE SOUTHEASTERLY SECTION OF THE CITY NEAR THE MUNICIPAL DOCK AT FIELDS POINT.

THE FOLLOWING TABLES SHOW THE STATISTICS FOR THE DISPOSAL PLANT FOR THE FISCAL YEAR.

ESTIMATED POPULATION SERVED BY THE PLANT:

PROVIDENCE	207,500
JOHNSTON	2,200
NORTH PROVIDENCE	<u>16,000</u>
TOTAL CONNECTED POPULATION	225,700

<u>SEWAGE FLOW</u>	<u>MILLION GALLONS</u>
PROVIDENCE	11,198.68
JOHNSTON	424.86
NORTH PROVIDENCE	2,739.49
CRANSTON (NARRAGANSETT BREWING CO.)	<u>102.21</u>
TOTAL SEWAGE FLOW	14,455.24

SUMMARY OF OPERATIONS

TOTAL FLOW OF SEWAGE	14,455.24 M.G.
AVERAGE DAILY FLOW	39.60 M.G.
MAX. DAILY FLOW (SEPT. 21, 1961)	118.19 M.G.
MIN. DAILY FLOW (AUGUST 20, 1961)	16.99 M.G.
TOTAL AIR USED FOR AERATION	14,967.15 MIL. CUB. FT.
LIQUID CHLORINE	989.11 TONS
FERRIC CHLORIDE USED	104.72 TONS
*LIME (AS KEMIKAL HYDRATE)	14.50 TONS
LIME (AS CHEMLINE SLURRY)	2,260.55 TONS
TOTAL LIME USED	2,475.05 TONS

GRIT REMOVALS	327.70 TONS
SLUDGE INCINERATED	37,655.31 TONS
ASH REMOVED FROM INCINERATOR	5,933.35 TONS
FUEL OIL USED FOR OPERATING SLUDGE INCINERATOR (#5 OIL)	157,175 GALS.
FUEL USED FOR HEATING ADMINISTRATION BUILDING (#2 OIL)	4,355.2 GALS.
FUEL USED FOR HEATING GRIT BUILDING (#2 OIL)	3,371.8 GALS.
FUEL USED FOR HEATING P.S.P.S. (#2 OIL)	3,254.2 GALS.
FUEL USED FOR HEATING S.S.P.S. & CHLORINE BLDG. (#2 OIL)	<u>2,132.6 GALS.</u>
TOTAL GALLONS #2 FUEL OIL	13,113.8 GALS.

GAS USED FOR HEATING FIELD LABORATORY 151.4 HUNDRED CUBIC FEET.

* USED ONLY IN CASES OF FAILURE OF SLURRY PUMPS.

ELECTRIC POWER USED FROM THE GARBAGE INCINERATOR:

<u>1960</u>	<u>K.W.H.</u>
OCTOBER	391,800
NOVEMBER	336,941
DECEMBER	343,500
 <u>1961</u>	
JANUARY	295,200
FEBRUARY	211,600
MARCH	367,000
APRIL	291,400
MAY	396,800
JUNE	371,200
JULY	255,000
AUGUST	209,900
SEPTEMBER	<u>195,000</u>
TOTAL	3,665,341

THE EXPENDITURES FOR THE YEAR WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$239,545.21
ITEM 1 SERVICES OTHER THAN PERSONAL	149,505.29
ITEM 2 MATERIALS AND SUPPLIES	201,506.16
ITEM 5 CAPITAL OUTLAY EQUIPMENT	<u>753.52</u>
TOTAL	\$591,310.18

DURING THE FISCAL YEAR 1960 - 1961, ALTERATIONS AND MODIFICATIONS OF THE TREATMENT FACILITIES AT THE SEWAGE PLANT WERE CONTINUED UNDER THE SUPERVISION OF THE ENGINEERING FIRM OF METCALF & EDDY, THROUGH THEIR ASSIGNED REPRESENTATIVE, MR. ARIEL A. THOMAS, IN ORDER TO IMPROVE THE QUALITY OF THE FINAL EFFLUENT AND THE EFFICIENCY OF OPERATION.

MAJOR MODIFICATIONS UNDERTAKEN WERE THE REPLACEMENT OF THE DISC FUSERS IN THE NORTH AND SOUTH CHANNELS WITH CERAMIC DIFFUSER TUBES. THESE CHANNELS CONTAIN THE EFFLUENT FROM THE AERATION TANKS - INFLUENT TO THE FINAL TANKS.

THE AIR HEADERS WERE MOVED FROM THE EAST SIDE WALL OF THE CHANNEL TO A MEDIAN POSITION IN THE CHANNEL WITH THE HEADER AT RIGHT ANGLES TO THE DIRECTION OF FLOW.

BAFFLE BOARDS WERE REMOVED FROM THE CATWALKS BETWEEN THE SECOND AND THIRD PASSES OF THE AERATION TANKS, AND THE SPRAY LINES WERE ROTATED SO AS TO PROVIDE GREATER EFFICIENCY IN THE CONTROL OF FOAMING.

AN ADDITIONAL TINE BAR AND SPRAY HEADER WERE INSTALLED ON THE KOMLINE-SANDERSON FILTER TO PROVIDE GREATER CLEANING EFFICIENCY OF THE FILTER DRUM.

REPAIRS WERE MADE TO THE MECHANISM OF THE ELECTRICAL GATE CONTROLLING THE FLOW OF RAW SEWAGE TO THE SOUTH DETRITER.

THE ORIGINAL WIRING AS INSTALLED BY THE CONTRACTOR FROM THE CONTROL PANEL TO THE SOUTH DETRITER, AND TO FINAL TANKS NO. 2 AND NO. 7 HAD TO BE REPLACED BECAUSE THE SPECIAL JUNCTION BOXES ORIGINALLY INSTALLED DID NOT PROVE TO BE WATERTIGHT AND THE LINES SHORTED.

PART OF ONE OF THE FEED LINES CONVEYING CHLORINE FROM THE TANK CAR TO THE CHLORINE BUILDING HAD TO BE DUG UP AND REPLACED WITH A NEW SECTION.

GUNK TRAPS WERE INSTALLED ON BOTH CHLORINIZERS IN AN EFFORT TO CONTAIN THE IMPURITIES WHICH WERE HAVING DECIDEDLY ADVERSE EFFECTS UPON THE OPERATION OF THE CHLORINIZERS.

ALL PIPING OF THE CHLORINE LINES IN THE CHLORINE BUILDING HAD TO BE REPLACED BECAUSE OF CORROSION CAUSED BY A PERFORATED DIAPHRAGM ON ONE OF THE EVAPORATOR UNITS.

ALL THE ABOVE MODIFICATIONS WERE ACCOMPLISHED WITH THE REGULAR PLANT PERSONNEL.

DURING THE SUMMER MONTHS, TEMPORARY LABOR WAS MADE AVAILABLE TO MAINTAIN PLANT PERSONNEL AT MAXIMUM STRENGTH DURING THE VACATION PERIOD. THIS HELP WAS PRIMARILY EMPLOYED IN MAINTENANCE AND GROUNDSKEEPING. DURING THE SUMMER, WITH THEIR HELP, FINAL TANK NO. 2 WAS GIVEN A COMPLETE RECOATING OF PRIMER AND FINAL COATS OF PAINT AS WAS NO. 3 PRIMARY CLARIFIER, AND THE NORTH AND SOUTH GRIT COLLECTORS.

CONSIDERABLE ATTENTION WAS REQUIRED WITH THE SLUDGE INCINERATOR BECAUSE OF THE NECESSITY OF PUSHING IT TO ITS MAXIMUM CAPACITY, AND VERY FREQUENTLY EXCEEDING THIS MAXIMUM CAPACITY IN ORDER TO KEEP UP WITH THE AMOUNT OF SLUDGE PRODUCED. SERVICES OF A WELDER WERE, ON SEVERAL OCCASIONS, REQUIRED TO STRAIGHTEN AND REINFORCE PLOW BLADES ON HEARTH 4. BLOCKING OF DROP HOLES, AND THE OVERLOADING OF THE ASH SCREW AND ASH BUCKET ELEVATOR, CAUSED NUMEROUS SHUTDOWNS.

THE CONVEYOR BELT CARRYING SLUDGE FROM THE INCLINE BELT TO THE INCINERATOR FEED HOPPERS WAS REPLACED WITH A NEW BELT. THIS BELT WAS INSTALLED BY QUALIFIED TRAINED PERSONNEL PROVIDED BY THE VENDOR.

NEW BEARINGS WERE INSTALLED ON NO. 3 ROOTS-CORNERVILLE AIR BLOWER BY TRAINED OUTSIDE PERSONNEL.

UPON THE RECOMMENDATIONS OF METCALF & EDDY, AND THE DORR-OLIVER COMPANY, SUPPLEMENTARY FLOTATION UNITS WERE INSTALLED ON THE CORNER SCRAPERS OF FINAL CLARIFIERS 1, 2, 3, 4, AND 5, AND ALSO ON PRIMARY CLARIFIER NO. 3. THIS WORK WILL ALSO BE REQUIRED ON PRIMARY CLARIFIERS 1, 2, AND 4 DURING THE CURRENT YEAR.

THE DIAPHRAGM AND NEEDLE VALVE CONTROL HAD TO BE REPLACED ON THE WEST CHLORINIZER EVAPORATOR AS THE RESULT OF A RUPTURE OF THE ORIGINAL DIAPHRAGM.

THE INSTALLATION OF STEAM LINES FOR HEATING PURPOSES FROM THE GARBAGE INCINERATOR TO THE BLOWER BUILDING, SLUDGE INCINERATOR BUILDING, AND FILTER BUILDING RESULTED IN CONSIDERABLE SAVINGS ON NO. 2 FUEL OIL.

THE CHICAGO BARMINUTORS CONTINUED TO BE A SOURCE OF TROUBLE DURING THE COURSE OF THE YEAR AS THE RESULT OF SEVERAL MECHANICAL FAILURES. CONSIDERABLE RESEARCH AND MODIFICATION IS STILL REQUIRED TO PUT THESE MACHINES IN AN EFFICIENT OPERATING CAPACITY.

DUE CREDIT SHOULD BE GIVEN TO THE SEWER MAINTENANCE, HIGHWAY AND BRIDGE DEPARTMENTS FOR THEIR COOPERATION AND HELP IN RESOLVING SOME OF THE PROBLEMS OCCURRING AT THE DISPOSAL WORKS.

MOST OF THE PLANT PERSONNEL ARE STILL SHOWING AN IMPROVEMENT IN, AND ACCEPTING THEIR RESPONSIBILITY FOR THE CARE, CLEANING, AND ROUTINE MAINTENANCE OF THE EQUIPMENT ASSIGNED TO THEM.

SEWAGE PUMPING STATION

THIS SECTION IS CHARGED WITH THE OPERATION AND MAINTENANCE OF THREE SEWAGE PUMPING STATIONS IN THE CITY. THE MAIN STATION IS LOCATED ON ERNEST STREET AND HANDLES PRACTICALLY ALL OF THE SEWAGE FLOW. ONE OF THE SMALLER STATIONS IS SITUATED ON RESERVOIR AVENUE NEAR THE CITY LINE AND THE OTHER IN HARBORSIDE PARK, FIELDS POINT.

THE MAIN PUMPING STATION ON ERNEST STREET HAS A CAPACITY OF TWO HUNDRED MILLIONS OF GALLONS A DAY. ELECTRIC POWER TO OPERATE THIS STATION IS SUPPLIED FROM THE GARBAGE INCINERATOR PLANT. PROVISION HAS BEEN MADE FOR STAND-BY POWER FROM THE LOCAL POWER COMPANY. THE TWO SMALLER STATIONS OPERATE AUTOMATICALLY AND THE POWER TO OPERATE THEM IS SUPPLIED BY THE LOCAL POWER COMPANY. ALL STATIONS ARE IN OPERATION TWENTY-FOUR HOURS PER DAY.

EXPENDITURES FOR THIS SECTION FOR THE FISCAL YEAR WERE AS FOLLOWS:

ITEM 0	PERSONAL SERVICES	\$68,349.32
ITEM 1	SERVICES OTHER THAN PERSONAL	1,694.30
ITEM 2	MATERIALS AND SUPPLIES	<u>4,577.57</u>
TOTAL		\$74,621.19

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>1960</u>				
OCTOBER	1,135.16	13.0	2.0	1,150.16
NOVEMBER	1,103.17	13.0	3.0	1,119.17
DECEMBER	1,166.09	16.0	4.0	1,186.09
<u>1961</u>				
JANUARY	1,228.04	13.0	4.0	1,245.04
FEBRUARY	1,083.14	13.0	2.0	1,098.14
MARCH	1,365.04	13.0	2.0	1,380.04
APRIL	1,348.08	16.0	4.0	1,368.08
MAY	1,358.15	16.0	3.0	1,377.15
JUNE	1,076.06	16.0	3.0	1,095.06
JULY	1,065.03	13.0	3.0	1,081.03
AUGUST	1,104.14	12.0	2.0	1,118.14
SEPTEMBER	<u>1,222.14</u>	<u>13.0</u>	<u>2.0</u>	<u>1,237.14</u>
TOTALS	14,254.24	167.0	34.0	14,455.24

* ESTIMATED FLOWS.

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

<u>1960</u>	<u>K.W.H.</u>
OCTOBER	NONE
NOVEMBER	NONE
DECEMBER	642
<u>1961</u>	
JANUARY	8,026
FEBRUARY	13,937
MARCH	10,933
APRIL	7,025
MAY	5,644
JUNE	1,728
JULY	3,719
AUGUST	3,273
SEPTEMBER	<u>7,461</u>
TOTAL	62,388

GARBAGE COLLECTION AND DISPOSAL

THIS SECTION IS CHARGED WITH THE COLLECTION AND DISPOSAL OF DOMESTIC GARBAGE AND COMBUSTIBLE RUBBISH, THE DISPOSAL OF COMMERCIAL RUBBISH AND THE GENERATION OF ELECTRIC POWER. THE POWER GENERATED IS USED AT THE INCINERATOR, THE MAIN SEWAGE PUMPING STATION, SEWAGE DISPOSAL WORKS, SANITATION GARAGE AND MUNICIPAL GARAGE.

A FLEET OF TWENTY-TRUCKS, WITH SPECIAL ENCLOSED BODIES, IS USED IN MAKING THE COLLECTION OF DOMESTIC GARBAGE AND COMBUSTIBLE HOUSEHOLD RUBBISH. COLLECTIONS ARE MADE TWICE WEEKLY FROM ALL RESIDENCES IN THE CITY.

THE MATERIAL COLLECTED IS DISPOSED OF IN AN INCINERATOR AT FIELDS POINT. THERE ARE TWO 160 TON PER DAY INCINERATING UNITS, EACH WITH TWO WASTE HEAT BOILERS FOR STEAM GENERATION AND THE STEAM PRODUCED IS USED TO DRIVE THE WESTINGHOUSE TURBO-GENERATORS, RUN AUXILIARY MACHINERY, HEAT THE INCINERATOR PLANT, SANITATION GARAGE, REPAIR SHOP AND THE SEWAGE DISPOSAL PLANT. THERE ARE TWO GENERATORS IN THE PLANT, EACH WITH A CAPACITY OF 1250 K.W. BOTH THE INCINERATOR AND THE POWER PLANT ARE IN OPERATION TWENTY-FOUR HOURS PER DAY.

ALL THE AUTOMOTIVE EQUIPMENT USED BY THIS SECTION IS RENTED FROM THE SANITATION SHOPS & STORES REVOLVING FUND.

THE EXPENDITURES FOR THIS SECTION FOR THE FISCAL YEAR WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$ 599,521.35
ITEM 1 SERVICES OTHER THAN PERSONAL	128,730.92
ITEM 2 MATERIALS AND SUPPLIES	<u>19,264.43</u>
TOTAL	\$ 747,516.70

THE FOLLOWING IS THE TOTAL AMOUNT OF GARBAGE AND RUBBISH DISPOSED OF BY THIS DEPARTMENT FROM OCTOBER-1960 TO SEPTEMBER-1961:

<u>1960</u>	<u>GARBAGE (TONS)</u>	<u>RUBBISH (TONS)</u>
OCTOBER	3,527.80	2,410.50
NOVEMBER	3,217.50	2,411.00
DECEMBER	3,558.60	2,450.50

<u>1961</u>		
JANUARY	3,526.90	2,325.00
FEBRUARY	3,524.00	1,973.00
MARCH	3,144.70	2,438.70
APRIL	2,493.83	2,310.55
MAY	2,876.46	2,776.85
JUNE	2,763.02	2,567.00
JULY	2,536.63	2,530.70
AUGUST	2,962.84	2,563.50
SEPTEMBER	<u>2,996.10</u>	<u>2,625.50</u>
TOTAL	37,128.38	29,383.80

DAILY AVERAGE FOR COLLECTION BASED ON 314 WORKING DAYS	118.2	TONS
DAILY AVERAGE FOR DISPOSAL BASED ON 365 WORKING DAYS	182.2	TONS

<u>TOTAL POWER GENERATED</u>	<u>K.W.H.</u>
AVERAGE DAILY DISTRIBUTED LOAD	13,182
AVERAGE DAILY DISTRIBUTED LOAD TO SEWAGE DISPOSAL WORKS	10,042
AVERAGE DAILY DISTRIBUTED LOAD TO SEWAGE PUMPING STATION	171
AVERAGE DAILY DISTRIBUTED LOAD TO MUNICIPAL GARAGE	38
AVERAGE DAILY DISTRIBUTED LOAD TO GARBAGE INCINERATOR	2,931

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

<u>1960</u>	<u>TONS</u>
OCTOBER	887.50
NOVEMBER	910.00
DECEMBER	932.50

<u>1961</u>	
JANUARY	910.00
FEBRUARY	940.00
MARCH	1,329.00
APRIL	925.50
MAY	1,011.00
JUNE	923.00
JULY	975.00
AUGUST	1,100.00
SEPTEMBER	<u>966.00</u>
TOTAL	11,810.00

DURING THE FISCAL YEAR 70,000 GALLONS OF NO. 6 FUEL OIL WERE USED TO MAINTAIN THE STEAM PRESSURE IN TIMES OF EMERGENCY OR MECHANICAL BREAKDOWN. 10,000 GALLONS OF THE ABOVE AMOUNT WAS PURCHASED BECAUSE OF LACK OF GARBAGE AND REFUSE DUE TO SNOW STORMS.

THE FOLLOWING IS THE K.W. H. FURNISHED THE SEWAGE DISPOSAL WORKS, THE MUNICIPAL GARAGE, THE SEWAGE PUMPING STATION AND STATION POWER.

<u>1960</u>	<u>SEWAGE</u> <u>DISPOSAL</u>	<u>SEWAGE</u> <u>PUMPING</u>	<u>MUNICIPAL</u> <u>GARAGE</u>	<u>STATION</u> <u>POWER</u>	<u>TOTAL</u>
OCTOBER	391,300	NONE	1116	79,084	472,000
NOVEMBER	336,941	NONE	1159	87,900	426,000
DECEMBER	343,500	642	1558	101,300	447,000
<u>1961</u>					
JANUARY	295,200	2,026	1474	93,300	398,000
FEBRUARY	211,600	13,937	1163	89,300	316,000
MARCH	367,000	10,933	1167	93,000	472,100
APRIL	291,400	7,025	1075	91,500	391,000
MAY	396,800	5,644	1156	93,400	497,000
JUNE	371,200	1,728	1072	82,000	456,000
JULY	255,000	3,710	981	87,300	347,000
AUGUST	209,900	3,273	1027	86,800	301,000
SEPTEMBER	<u>195,000</u>	<u>7,461</u>	<u>1039</u>	<u>85,500</u>	<u>288,000</u>
TOTAL	3,665,341	62,388	13,907	1,069,884	4,811,600

REPAIRS TO PLANT EQUIPMENT

THE FOLLOWING IS A SUMMARY OF THE REPAIR WORK PERFORMED IN THE COURSE OF THE FISCAL YEAR TO INCINERATOR PLANTS NO. 1 AND 2.

THE TERRY TURBINE IN PLANT NO.2 WAS OVERHAULED AND PUT BACK IN SERVICE.

FORTY-FOUR BOILER TUBES IN PLANT NO. 2 WERE IN POOR CONDITION. THESE TUBES WERE REMOVED AND REPLACED WITH NEW ONES.

FOUR NEW BLOW-DOWN VALVES WERE INSTALLED TO MEET STANDARDS SET BY THE INSURANCE INSPECTOR.

NEW BLOW-DOWN PIPES WERE INSTALLED IN BOTH BOILERS.

THREE CHARGING GATES WERE RE-BUILT AND PUT BACK IN SERVICE IN PLANT NO. 2 AND TWO DROP GATES WERE INSTALLED IN THE WASTE HEAT BOILERS.

THE OVER-FLOW PIPE FROM THE FEED WATER TANK SUPPLY WAS RENEWED. THE CONDENSATION PUMPS FOR TURBINES NOS. 1 AND 2 HAVE BEEN OVERHAULED. THE STEAM LINE ON TURBINE NO. 1 WAS REPAIRED.

THE WATER LINE ON THE BOILER FEED PUMP WAS REPAIRED IN PLANT NO.2. THE AIR COMPRESSOR FOR THE CHARGING DOORS IN PLANT NO.2 WAS REPAIRED. REPAIRS TO THE TRANSMISSION GEAR BOX FOR THE INDUCED FAN IN BOILER NO. 4 WERE MADE.

A NEW FINGER BOARD WAS INSTALLED IN THE ELECTRIC CRANE IN PLANT NO. 2. THIS INSTALLATION, DONE BY INCINERATOR EMPLOYEES, RESULTED IN A MUCH SMOOTHER CRANE OPERATION.

THE FUEL OIL PUMP IN PLANT NO.1 WAS OVERHAULED AND NEW PISTON RINGS INSTALLED BY INCINERATOR EMPLOYEES.

THE GARBAGE GRAB BUCKETS IN BOTH PLANTS WERE REPAIRED AND NECESSARY REPLACEMENT PARTS WERE INSTALLED. A NEW GARBAGE GRAB BUCKET WAS PURCHASED AND INSTALLED LATE IN THE FISCAL YEAR. THIS REPLACES ONE OF THE BUCKETS WHICH WAS IN SERVICE FOR YEARS AND WAS IN VERY POOR CONDITION.

REFUSE COLLECTION AND DISPOSAL

THE REFUSE COLLECTION AND DISPOSAL SECTION IS RESPONSIBLE FOR THE COLLECTION AND DISPOSAL OF ALL NON-COMBUSTIBLE REFUSE FROM THE RESIDENTIAL SECTIONS OF THE CITY ONCE EACH MONTH. THE CITY WAS DIVIDED INTO FOUR AREAS AND EACH AREA WAS DIVIDED INTO TWENTY ROUTES. IN JULY OF THIS YEAR, THE ROUTES IN THE ENTIRE CITY WERE REVISED AND TWENTY ROUTES WERE ESTABLISHED. BEFORE JULY, TWO TRUCKS, WITH A DRIVER AND TWO LABORERS TO EACH TRUCK, WERE ASSIGNED TO EACH AREA; A TOTAL OF EIGHT TRUCKS, EIGHT DRIVERS AND SIXTEEN LABORERS. AFTER JULY, ONLY SIX TRUCKS, SIX DRIVERS AND TWELVE LABORERS WERE USED TO PICK UP THE NON-COMBUSTIBLE REFUSE.

THE TRUCKS USED ARE 16 CU. YARD PACKERS AND ARE RENTED FROM THE SANITATION SHOPS AND STORES REVOLVING FUND ON TERMINAL ROAD.

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

THE TOTAL CUBIC YARDS COLLECTED FOR THE YEAR FOLLOWS:

<u>1960</u>	<u>TOTAL</u>
OCTOBER	4,576
NOVEMBER	4,208
DECEMBER	3,392
<u>1961</u>	
JANUARY	3,760
FEBRUARY	3,360
MARCH	4,112
APRIL	3,360
MAY	4,304
JUNE	3,904
JULY	3,904
AUGUST	3,000
SEPTEMBER	<u>4,208</u>
TOTAL	47,216

EXPENDITURES FOR THIS SECTION FOR THE FISCAL YEAR WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICE	\$102,003.64
ITEM 1 SERVICES OTHER THAN PERSONAL	30,620.00
ITEM 2 MATERIALS AND SUPPLIES	<u>63.50</u>
TOTAL	\$140,687.94

SANITATION DIVISION REVENUE

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

SEWAGE PUMPING STATION	\$ 22.92
SEWAGE DISPOSAL SECTION	90,979.95
GARBAGE COLLECTION AND DISPOSAL SECTION	397.65
REFUSE COLLECTION AND DISPOSAL SECTION	<u>475.00</u>
TOTAL	\$ 99,875.52

SANITATION SHOPS AND STORES

THE SHOP AND STORES IS RESPONSIBLE FOR THE SERVICING AND MAINTENANCE OF ALL AUTOMOTIVE EQUIPMENT IN THE DIVISION, WITH THE EXCEPTION OF THE STREET CLEANING SECTION.

THE EQUIPMENT IS RENTED OUT ON A 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 SHOPS 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 LOADPAKER TYPE BODIES.
- 8 REFUSE COLLECTION TRUCKS WITH LOADPAKER TYPE BODIES.
- 2 DUMP BODY TRUCKS.
- 2 PICKUP TRUCKS 1/2 TON CAPACITY.
- 6 PASSENGER CARS.
- 1 BULLDOZER.
- 1 SMALL AIR COMPRESSOR.

THE SANITATION 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.

RECOMMENDATIONS

GARBAGE INCINERATORS

IT IS SUGGESTED THAT THE BRICK WORK IN THE FURNACE AND COMBUSTION CHAMBER OF PLANT No. 1 BE REPLACED AS IT IS IN POOR CONDITION.

THE ASH HOPPER AT THE END OF THE TRAVELING GRATE IN PLANT No. 1 SHOULD HAVE THE BRICK AND STEEL WORK REPLACED.

SIX HUNDRED-FIFTY FEET OF CONVEYOR CHAIN AND FIFTEEN LENGTHS OF CARBON STEEL BAR 3" X 1/2" WOULD BE REQUIRED TO REPAIR THE ASH CONVEYOR IN PLANT No. 1. THIS WORK COULD BE DONE BY OUR EMPLOYEES.

A NEW GARBAGE GRAB BUCKET SHOULD BE INSTALLED IN PLANT No. 1 AS THE PRESENT ONE IS APPROXIMATELY TWENTY YEARS OLD AND IN POOR CONDITION.

IN PLANT No. 2 THE FLASHING AROUND THE BRICK SMOKE STACK IS IN POOR CONDITION AND SHOULD BE REPLACED.

AN ENGINEER FROM THE HARNISCHFEGGER CORPORATION SHOULD BE HIRED TO SUPERVISE THE WORK OF OVER-HAULING THE ELECTRIC CRANE IN PLANT No. 1. THIS CRANE HAS BEEN IN SERVICE TWENTY-FOUR YEARS.

NEW PRE-HEATER TUBES SHOULD BE INSTALLED IN BOILERS NOS. 3 & 4 REPLACING ONLY THE ONES FOUND IN BAD CONDITION.

THE DOORS IN FRONT OF THE GARBAGE PITS ARE NOT IN GOOD WORKING ORDER AND SHOULD BE REPAIRED.

IN BOTH CONDENSERS A NUMBER OF TUBES SHOULD BE REPLACED. WORK COULD BE DONE BY OUR EMPLOYEES.

SEWAGE DISPOSAL WORKS

FURTHER STUDY SHOULD BE MADE TO CORRECT THE DEFICIENCIES THAT STILL EXIST IN THE OPERATION OF THE CARMINUTORS.

THE INCINERATOR STACK SHOULD RECEIVE A COAT OF PAINT AS SOON AS POSSIBLE.

IMMEDIATE CONSIDERATION SHOULD BE GIVEN TO THE INSTALLATION OF A WARNING SYSTEM FOR THE DETECTION OF RADIO ACTIVE ISOTOPES TO BE INSTALLED AT SUCH A POINT IN THE SEWAGE SYSTEM THAT AMPLE TIME WILL BE AVAILABLE FOR PROTECTING PLANT PERSONNEL FROM RADIOACTIVITY.

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. MEELROY,
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 ENDING SEPTEMBER 30, 1961.

MUNICIPAL DOCK

THE ABBOTT GLASS COMPANY, THAT LEASED THE NUMBER ONE TRANSIT SHED LAST YEAR, HAS SHOWN PROMISE OF DEVELOPING INTO A VERY ACTIVE ACCOUNT. BECAUSE OF CONTRACTUAL TONNAGE OFFERED, TWO BERTH OPERATORS HAVE PROMISED REGULAR BOAT SERVICE FROM THE BALTIC AND MEDITERRANEAN SEA AREAS. WE HAVE GREAT HOPES OF DEVELOPING ADDITIONAL CARGO, BOTH IMPORT AND EXPORT, THROUGH THESE SERVICES.

THE LAND AREA FORMERLY OCCUPIED BY THE NEW ENGLAND COAL AND COKE COMPANY WAS DIVIDED AND 70,000 SQUARE FEET LEASED TO THE LEHIGH PORTLAND CEMENT COMPANY AND THE REMAINING 220,000 SQUARE FEET LEASED TO THE CITIES SERVICE OIL COMPANY.

THE LEHIGH PORTLAND CEMENT COMPANY IS BUILDING FOUR SILOS WITH A CAPACITY OF 10,000 BARRELS OF CEMENT. THEY PLAN TO RECEIVE THE CEMENT BY BARGE FROM THEIR HUDSON RIVER PLANT AND THIS METHOD OF HANDLING BULK CEMENT WILL UNDOUBTEDLY HELP IMPROVE THE COMPETITIVE POSITION OF THE PROVIDENCE AREA.

THE CITIES SERVICE OIL COMPANY WILL HANDLE ASPHALT EXCLUSIVELY. WITH THE CLOSING OF THE TEXAS COMPANY ASPHALT PLANT AND THE BUILDING OF A MODERN PLANT BY THE CITIES SERVICE OIL COMPANY, THE COMPETITIVE POSITION OF THE PROVIDENCE AREA WILL BE GREATLY IMPROVED.

THE TOTAL REVENUE FOR THE YEAR INCREASED MORE THAN \$11,000, ALTHOUGH THE TONNAGE OF LUMBER AND CEMENT DECREASED.

THE PROSPECTS FOR THE COMING YEAR ARE VERY BRIGHT, AS A SUBSTANTIAL INCREASE IN THE MOVEMENT OF GLASS, DOMESTIC CEMENT AND ASPHALT IS ANTICIPATED.

PASSENGERS AND CARGO HANDLED

PASSENGERS AND CARGO ARRIVING AT THE PROVIDENCE MUNICIPAL DOCK DURING PERIOD
FROM OCTOBER 1, 1960 TO SEPTEMBER 30, 1961:

PASSENGERS (204)	
PIG IRON	3,518 TONS
CEMENT	22,965 TONS
LUMBER (44,363 BOARD FEET)	79,937 TONS
GLASS	4,257 TONS
NAILS	912 TONS
FISH	1,305 TONS
CHEMICALS	1,680 TONS
STEEL	814 TONS

GASOLINE	276,938 TONS
FUEL OIL	117,512 TONS
KEROSENE	32,403 TONS
LUBE OILS	<u>10,570 TONS</u>
TOTAL	546,817 TONS

PASSENGERS AND CARGO SHIPPED FROM THE PROVIDENCE MUNICIPAL DOCK DURING PERIOD FROM OCTOBER 1, 1960 TO SEPTEMBER 30, 1961:

PASSENGERS (284)	
GASOLINE	22,047 TONS
FUEL OIL	16,017 TONS
KEROSENE	1,619 TONS
SCRAP METAL	<u>13,944 TONS</u>
TOTAL	53,627 TONS

CARGO RECEIVED	546,817 TONS
CARGO SHIPPED	<u>53,627 TONS</u>
TOTAL	600,444 TONS

REVENUE

LEASE OF STORAGE WAREHOUSE	\$ 60,663.00
LEASE OF LAND	76,332.08
WHARFAGE	60,053.58
TRUCKAGE	6,964.00
WATER	4,712.04
DOCKAGE	12,973.81
STORAGE	12,087.11
MISC.	5,786.64
DIVIDEND	<u>6.00</u>
	\$ 240,370.26

EXPENDITURES

ITEM 0 PERSONAL SERVICES	\$ 31,305.63
ITEM 1 SERVICES OTHER THAN PERSONAL	6,201.16
ITEM 2 MATERIALS AND SUPPLIES	<u>1,555.67</u>
TOTAL	\$ 39,062.66

HARBOR MASTER

CARGO RECEIVED OCTOBER 1, 1960 TO SEPTEMBER 30, 1961

	GAS.	KERO.	COAL	LUBE		DIESEL	ASPHALT	FUEL OIL	CEMENT	LUMBER	GEN. CARGO	NAP.	CHEM.
				OIL	OIL								
OCT.	157,575	23,319	87,637	4,031	10,164	11,666	238,394	19,605	2,235				
NOV.	144,778	33,529	58,300	2,395	2,762	18,590	301,950	5,417					
DECE.	133,133	27,120	59,308	6,480	3,967	9,320	349,317	4,356	10,360	1,792			
JAN.	171,933	17,412	99,147	2,187	3,150	800	341,217	2,710	3,196	3,828			
FEB.	127,520	35,924	73,788	2,464	4,662	5,500	398,048	2,099	5,946	41,233	800		
MAR.	145,416	37,719	20,336	15,058	4,916		335,253	15,290		17,612			
APRIL	105,624	12,509	38,567	1,724	4,420	18,833	295,844	11,333	15,298	3,600	1,500		
MAY	108,047	17,765	43,160	4,946	2,665	42,103	247,115		560	1,316			
JUNE	122,814	8,070	16,282	8,078	12,352	57,034	127,833	1,310	11,275	2,524	1,094	800	
JULY	187,627	14,601	44,598	1,842	5,143	29,607	333,733						6,764
AUG.	210,633	27,954	74,217	4,252	7,520	22,500	313,692	8,301	727				2,300
SEPT.	159,302	8,226	73,478	4,229	16,914	30,710	245,683	10,716	865 (GL.)	1,363	180		
	1,774,402	265,038	608,808	57,686	78,635	246,753	3,528,079	25,724	78,155	72,662	10,107	31,748	
TOTAL RECEIVED		6,857,877 TONS											
		TOTAL RECEIVED		6,857,877 TONS									
		TOTAL SHIPPED		865,314 TONS									
		TOTAL		7,723,191 TONS									

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CARGO SHIPPED OCTOBER 1, 1960 TO SEPTEMBER 30, 1961

	<u>GAS.</u>	<u>FUEL OIL.</u>	<u>KERO.</u>	<u>DIESEL</u>	<u>ASPHALT</u>	<u>SCRAP</u>	<u>GEN. CARGO</u>	<u>NAPHTHA</u>	<u>LUBE OIL</u>
OCT.	23,528	19,847	842	1,420	5,667	9,100			
NOV.	26,853	20,556	2,338	508	13,167	10,859			
DEC.	13,381	36,172	4,751	2,065					
JAN.	23,643	78,647	4,337	560		14,144			
FEB.	23,000	32,449	1,370	157		15,142	4,887		
MAR.	39,933	33,108	1,389	830		10,652			
APRIL	16,775	33,771	4,206	1,360				502	
MAY	34,411	19,301	554	1,552	1,433	10,549			
JUNE	21,785	11,596		1,024	7,583	20,322			
JULY	27,500	14,499	1,275	6,204	2,333	10,248			165
AUG.	33,230	32,939	838	2,308	11,000	1,510			
SEP.	21,134	18,643	1,433	1,186	5,967	10,199			
	<u>305,383</u>	<u>351,528</u>	<u>23,333</u>	<u>19,144</u>	<u>47,147</u>	<u>112,725</u>	<u>4,887</u>	<u>502</u>	<u>165</u>

TOTAL SHIPPED 865,314 TONS

THE FOLLOWING VESSELS ARRIVED AT THE PORT OF PROVIDENCE OCTOBER 1, 1960
TO SEPTEMBER 30, 1961:

440	STEAMSHIPS
497	MOTOR VESSELS
403	TUGS
230	BARGES
1	FERRY
1	U.S.N. CRUISER
3	U.S.N. DESTROYERS
1	U.S. N. SUB
<u>1</u>	U.S.N. SUB TENDER
TOTAL	1,577

REVENUE

\$ 24.89

EXPENDITURES

ITEM 0	PERSONAL SERVICES	\$ 3,364.40
ITEM 1	SERVICES OTHER THAN PERSONAL	<u>115.90</u>
TOTAL		\$ 3,480.30

RESPECTFULLY SUBMITTED,

JAMES J. FISHER
PORT AGENT.

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 1960-1961.
SCHEDULES OF STREET LIGHTING DATA

	<u>0.H. A.N.</u> <u>600 CP.</u>		<u>U.G. A.N.</u> <u>1000 CP.</u>		<u>0.H. A.N.</u>	
OCT. 1, 1960	29		316	3	26	
SEPT. 30, 1961	29		302	3	26	
CHANGES	0		14	0	0	
	<u>MERC. 6800 LU.</u>	<u>MERC. 2LT. AN UG</u>	<u>MERC. VAP. OH</u>	<u>MERC. A.N. U.G.</u>	<u>SODIUM LIGHTS UG AN</u>	
OCT. 1, 1960	42	8	2112	1503	22	
SEPT. 30, 1961	86	8	2116	1483	21	
CHANGES	46	0	4	20	1	
	<u>100 CP. U.G.</u>	<u>100 CP. 0.H.</u>	<u>MERC. VAP.</u>	<u>A.N. 0.H. U.G.</u>		
	<u>A.N. U.G. H.N.</u>	<u>A.N. H.N.</u>	<u>24 HR. U.G.</u>	<u>250 CP.</u>		
OCT. 1, 1960	145	227	44	492	15	
SEPT. 30, 1961	140	227	44	520	15	
CHANGES	5	0	0	28	0	
			SEPT. 30, 1960	SEPT. 30, 1961	CHANGES	

TOTAL NUMBER EQUIVALENT SINGLE INCANDESCENT LIGHTS	9137	9119	18
TOTAL NUMBER MERCURY LIGHTS 15,000 LUMEN AND 7,000 LUMEN	3665	3739	74
TOTAL NUMBER EQUIVALENT SINGLE SODIUM LIGHTS	22	21	1

FROM MAY 1 TO OCTOBER 14, INCLUSIVE, THE H.N. LIGHTS BURN ONE EXTRA HOUR UNTIL 1 A.M. THE UNITED TRANSIT COMPANY IS CHARGED FOR $\frac{1}{2}$ THE COST OF THE 15,000 LUMEN U.G. MERCURY WHICH IS LOCATED AT THE THAYER STREET ENTRANCE TO THE TUNNEL.

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

NARRAGANSETT ELECTRIC COMPANY

1.	(A)	TOTAL NUMBER OF WOOD POLES IN CITY (INCLUDING THOSE JOINTLY OWNED, BUT NOT INCLUDING THOSE JOINTLY USED, WITH NO OWNERSHIP.)	18987
	(B)	TOTAL NUMBER JOINTLY OWNED POLES WITH N.E.T. & T. CO.	13868
	"	" " " " " " U.E.R. CO.	0
	"	" " " " " " WES. UN. TEL. CO.	0
	"	" " " " " " POS. TEL. CO.	0
	"	" " " " " " N.E.T & U.E.R. (3 PARTY)	0
	"	" " " " " " U.E.R. & WES. UN. TEL. CO.	0
	"	" " " " " " N.E.T. & WES. UN. TEL. CO.	0
2.		TOTAL NUMBER IRON POLES IN CITY	252
		NUMBER OF UNDERGROUND STREET LIGHT STANDARDS	2239
	"	" " ORNAMENTAL ARC	0
	"	" " ORNAMENTAL INCANDESCENTS (MERCURY VAPOR)	2238
	"	" " GOOSE NECKS	0
	"	" " ORNAMENTAL INC. WITH U.E. R.	1
	"	" " IRON POLES WITH U.E.R.	0
	"	" " IRON POLES WITH U.E.R. & N.E.T. & T. CO.	0
	"	" " IRON POLES WITH N.E.T. & T. CO.	9
3.		TOTAL NUMBER MILES CONDUIT (TRENCH FEET) IN CITY	83.30
4.	"	" " MILES CONDUIT (DUCT FEET) IN CITY	689.68
5.	"	" " UNDERGROUND CABLE IN CITY	876.64
6.	"	" " MILES EQUIVALENT SINGLE UNDERGROUND CONDUCTOR	1240.05
6.	(A)	" " AERIAL CABLE	317.96
	(B)	" " EQUIVALENT SINGLE CONDUCTOR AERIAL CABLE	891.82
7.	"	" " AERIAL OPEN WIRE	3915.60
8.	"	" " SERVICE PIPES OR LATERALS	70.42
9.	"	" " COMMERCIAL TRANSFORMERS IN CITY	5755
10.	"	" " CUSTOMERS SUPPLIED DIRECTLY BY U.G. CONNECTION	25215
11.	"	" " CUSTOMERS SUPPLIED DIRECTLY BY O. H. CONNECTION	51065
12.	"	" " METERS INSTALLED IN CITY	76280
13.		APPROXIMATE TOTAL NUMBER OF 1Ø 2 WIRE 115 V. METERS IN CITY	44140
14.	"	" " " " 1Ø 3 WIRE 115/230 V. METERS IN CITY	26800
15.	"	" " " " 1Ø 2 WIRE . 250 V. METERS IN CITY	0
16.	"	" " " " 1Ø 3 WIRE 250/500 V. METERS IN CITY	0
17.	"	" " " " 3Ø 3 WIRE 115 V. METERS IN CITY	18
18.	"	" " " " 3Ø 3 WIRE 250 V. METERS IN CITY	245

19.	TOTAL NUMBER OF 3/4 WIRE 120/208 V. METERS IN CITY	1560
20.	" " " 1/3 WIRE 120/208 V. METERS IN CITY	2075
21.	" " " D.C. 2 WIRE AND 3 WIRE 250 AND 250/500 V. METERS IN CITY	67
22.	APPROXIMATE TOTAL NUMBER OF 3/3 WIRE 575 V. METERS IN CITY.	1375

PROVIDENCE GAS COMPANY

TOTAL GAS SERVICES IN PROVIDENCE 38,428

MILES OF MAIN:

L.P.	396 MILES	2,575 FEET
H.P.	7 MILES	878 FEET
NATURAL GAS	<u>1 MILE</u>	<u>1,800 FEET</u>
TOTAL	404 MILES	5,253 FEET OR 405.0 MILES

GAS HOLDERS	4
NUMBER OF METERS (ACTIVE)	56,421
DECREASE IN GAS SERVICES 9/30/60 - 9/30/61	227
DECREASE IN MILES OF MAIN 9/30/60 - 9/30/61	1.6
DECREASE IN NUMBER OF METERS 9/30/60 - 9/30/61	1,286

NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY

TOTAL NUMBER WOOD POLES (INCLUDING JOINTLY USED, BUT NOT INCLUDING THOSE JOINTLY USED WITH NO OWNERSHIP)	17.076
TOTAL NUMBER OF JOINTLY USED POLES WITH N.E. CO.	13,868
TOTAL NUMBER OF MILES MAIN CONDUIT (TRENCH MILES)	62.10
TOTAL NUMBER OF MILES U.G. CABLE	283.06
TOTAL NUMBER OF MILES AERIAL CABLE	256.51
TOTAL WOOD TERMINAL BOXES ON POLES	202
APPROXIMATE NUMBER OF TELEPHONES SUPPLIED DIRECTLY BY UNDERGROUND OR BLOCK DISTRIBUTION	49,032
APPROXIMATE NUMBER OF TELEPHONES SUPPLIED DIRECTLY BY OVERHEAD LINES ON HIGHWAYS	44,210

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)	33
ADDITIONAL MILES OF CABLE - U.G. AND AERIAL	34.71
INCREASE IN THE NUMBER OF TELEPHONES IN USE	843

ESTIMATE

THIS REPORT COVERS PLANT STATISTICS AS OF SEPTEMBER 30, 1961.

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 (TR. FT.)	276
NUMBER OF FEET OF U.G. CONDUIT	922.6
NUMBER OF MILES OF U.G. CABLE	.743
NUMBER OF MILES OF WIRE IN U.G. CABLE	65.12

NUMBER OF FEET OF TWISTED PAIR:

(A) ON LICENSED ATTACHMENTS PRIVILEGED TO PURCHASE THE POLES OF OTHER COMPANIES	16,200
(B) ACROSS STREETS	820
(C) OVER PRIVATE ALLEYS	280

MANHOLES OWNED	1
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TRAFFIC ENGINEERING DEPARTMENT

TOTAL NUMBER OF TRAFFIC SIGNAL HEADS	1,102
TOTAL NUMBER OF TRAFFIC SIGNAL POLES	577
TOTAL NUMBER OF TRAFFIC SIGNAL CONTROLLERS (LOCAL)	157
TOTAL NUMBER OF TRAFFIC SIGNAL CONTROLLERS (MASTER)	5
TOTAL NUMBER OF FEET OF UNDERGROUND DUCTS AND LATERALS	63,205
TOTAL NUMBER OF MILES OF UNDERGROUND CABLE	27.0
TOTAL NUMBER OF MILES OF AERIAL CABLE	5.0
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR (UNDERGROUND CABLE)	135.9
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR (AERIAL CABLE)	24.8

THE ABOVE LIST OF EQUIPMENT IS OWNED BY THE TRAFFIC ENGINEERING DEPARTMENT.
AT THE SAME TIME WE ARE USING DUCT SPACE AND CABLE BELONGING TO THE NEW ENGLAND
TELEPHONE & TELEGRAPH COMPANY AND THE CITY OF PROVIDENCE FIRE DEPARTMENT AS FOLLOWS:

TOTAL NUMBER OF FEET OF DUCT SPACE BELONGING TO THE NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY ASSIGNED TO CITY USE.	52,530
TOTAL NUMBER OF FEET OF DUCT SPACE BELONGING TO THE FIRE DEPARTMENT OF THE CITY OF PROVIDENCE.	3,040
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR UNDERGROUND CABLE BELONGING TO THE CITY OF PROVIDENCE FIRE DEPARTMENT AND ASSIGNED FOR TRAFFIC ENGINEERING DEPARTMENT USE.	57.6

DURING THE LAST FISCAL YEAR NEW TRAFFIC INSTALLATIONS WERE COMPLETED AT
THE INTERSECTIONS OF THE HUNTINGTON EXPRESSWAY RAMP AND UNION AVENUE, AND ALLENS
AVENUE AND ERNEST STREET, AND A PEDESTRIAN CROSSING SIGNAL NEAR 520 ALLENS AVENUE.

BECAUSE OF THE SECOND STAGE OF THE NORTH-SOUTH FREEWAY CONSTRUCTION, THE
SIGNALS AT POINT STREET AND PLAIN STREET AND HAYWARD PARK HAVE BEEN PUT OUT OF SERVICE.

DEPARTMENT OF PUBLIC SAFETY

INVENTORY - SIGNAL CONSTRUCTION - FIRE ALARM DIVISION - POLICE SIGNAL

	TOTAL	AERIAL	U.G.	QUICK ACTION	DOOR TYPES KEY	KEYLESS
FIRE ALARM BOXES	947	581	366	927	7	13
CITY OWNED	670	406	264	670	0	0
PRIVATELY OWNED	277	175	102	257	7	13
POLICE CALL BOXES	167	103	64			

TOTAL NUMBER OF ALL BOX AND CABLE PEDESTALS	334
" " " " FIRE ALARM BOX PEDESTALS	231
" " " " POLICE BOX PEDESTALS	67
" " " " CABLE PEDESTALS ONLY	36
" " " " MILES OF UNDERGROUND CABLES	85.15
" " " " " PARKWAY CABLES	1.47
" " " " " AERIAL CABLES	3.52
" " " " " EQUIVALENT SINGLES CONDUCTOR	
UNDERGROUND	1258.40
" " " " " EQUIVALENT " AERIAL	129.30
" " " " " " PARKWAY	6.42
" FOOTAGE OF ALL DUCTS AND LATERALS OWNED BY THE CITY	3445.6
" NUMBER OF POLES OWNED BY THE CITY	36.

INCREASE IN THE NUMBER OF FIRE ALARM BOXES OWNED BY THE CITY	2
" IN " " " " " " " PRIVATELY	6

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 21,000 WHEN 15,000 LAMPS ARE NOT AVAILABLE.

PLANS TO RE-LIGHT THE STREETS, RADIATING FROM THE DOWNTOWN BUSINESS AREA, WITH MERCURY VAPOR LUMINARIES OF INTERMEDIATE INTENSITY ARE STILL 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 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 OVER THE CENTER LINE OF THE HIGHWAYS.

AT THE PRESENT TIME, THE LIPPITT HILL AREA IS BEING REDEVELOPED AND WE SHALL ADEQUATELY RELIGHT THIS AREA WHEN THE TIME ARRIVES.

LIKEWISE THE MASHAUG AREA IS BEING REDEVELOPED AND WE HAVE A CONSIDERABLE AMOUNT OF LIGHTS TO BE REMOVED AND THEN REPLACED WHEN THIS AREA IS COMPLETED.

WE ARE NOW DIRECTING OUR EFFORTS ON THE NORTH-SOUTH FREEWAY IN THE AREA FROM HAYWARD PARK TO WEST EXCHANGE ST., WHICH WILL BE CALLED ROUTE #95.

THIS YEAR WE ARE GOING TO TRY AND RELIGHT TWO OF OUR MAJOR STREETS, NAMELY, BROAD ST. AND ELMWOOD AVE., WITH NEW MERCURY VAPOR LUMINARIES TO REPLACE THE OLD 10,000 LUMEN INCANDESCENTS NOW IN SERVICE.

IN THE DISTANT FUTURE WE MIGHT BE CALLED UPON TO RELIGHT A DOWNTOWN SHOPPERS MALL IN THE VICINITY OF WEYBOSSET ST., WHICH IS ON THE DRAWING BOARDS OF THE CITY PLAN AND REDEVELOPMENT DEPARTMENTS. WE HAVE RECENTLY INSPECTED SOME 60,000 LUMEN MERCURYS IN UPPER DARBY, PHILADELPHIA IN CONJUNCTION WITH THIS PROJECT.

NEGOTIATIONS ARE STILL GOING ON BETWEEN THE PUBLIC SERVICE ENGINEER, PUBLIC WORKS DEPARTMENT AND THE NARRAGANSETT ELECTRIC CO., TO FORMULATE A NEW CONTRACT BETWEEN THE UTILITY COMPANY AND THE CITY OF PROVIDENCE.

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

CONSEQUENTLY, IT WOULD SEEM ADVISABLE AGAIN TO RECOMMEND TO THE DEPARTMENT THAT AN OFFICE CLERK BE ADDED TO 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.

RESPECTFULLY SUBMITTED,

PETER J. HICKS, JR.
PUBLIC SERVICE ENGINEER.

FAMILY & BUSINESS RELOCATION SERVICE

MR. CHARLES F. McELROY
DIRECTOR OF PUBLIC WORKS
CITY HALL
PROVIDENCE, RHODE ISLAND.

DEAR MR. McELROY:

FOLLOWING IS THE ANNUAL REPORT OF THE FAMILY AND BUSINESS RELOCATION SERVICE FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1961.

THE ENCLOSED REPORT REPRESENTS ALL RELOCATION ACTIVITIES DURING THE 1960-61 FISCAL YEAR. THE ACTIVE PROJECTS WERE AS FOLLOWS:

LIPPITT HILL URBAN RENEWAL PROJECT
MASHAPAUG POND PROJECT
MAJESTIC OFF-STREET PARKING FACILITY
METROPOLITAN OFF-STREET PARKING FACILITY
ROUTE 95, HAYWARD PARK TO ABORN STREET
ROUTE 95, PUBLIC ST. TO EDDY STREET
WEYBOSSET HILL URBAN RENEWAL PROJECT (PHASE #1)

DURING THE PAST YEAR, 607 FAMILIES AND INDIVIDUALS WERE REPRESENTED IN THE CASE-LOAD. AT THE END OF THE FISCAL YEAR, SEPTEMBER 30, 1961, 135 FAMILIES AND INDIVIDUALS REMAINED ON OUR ACTIVE PROJECTS. THIS REPRESENTS 472 FAMILIES AND INDIVIDUALS HAVING BEEN SUCCESSFULLY RELOCATED DURING THE PAST FISCAL YEAR.

RELATIVE TO THE COMMERCIAL OPERATION OF THE RELOCATION SERVICE, 5 PROJECTS WERE ACTIVE DURING THE PAST YEAR:

MAJESTIC OFF-STREET PARKING FACILITY
METROPOLITAN OFF-STREET PARKING FACILITY
ROUTE 95, HAYWARD PARK TO ABORN STREET
ROUTE 95, PUBLIC STREET TO EDDY STREET
WEYBOSSET HILL URBAN RENEWAL PROJECT (PHASE #1)

AT THE BEGINNING OF THE FISCAL YEAR, THERE WAS A TOTAL OF 74 BUSINESS ESTABLISHMENTS ON THE ABOVE SITES. AT THE END OF THE YEAR, 31 REMAINED ON THE VARIOUS SITES INDICATING THAT 43 BUSINESS FIRMS WERE RELOCATED DURING THE PAST FISCAL YEAR.

DURING THE PAST FISCAL YEAR, THE RELOCATION DIVISION CONTINUED TO GIVE SERVICE TO THE CITY OF PROVIDENCE, THE PROVIDENCE REDEVELOPMENT AGENCY, AND THE STATE OF RHODE ISLAND, DEPARTMENT OF PUBLIC WORKS.

IN KEEPING WITH PAST POLICY, IT WAS THE DIRECT RESPONSIBILITY OF THE RELOCATION SERVICE TO ASSIST FAMILIES AND BUSINESS FIRMS RELOCATE WITH A MINIMUM OF HARDSHIP AND SUFFERING. DURING THE PAST YEAR, THE RELOCATION SERVICE HAS OPERATED THREE OFFICES LOCATED AT MASHAPAUG POND PROJECT, LIPPITT HILL PROJECT, AND THE EDDY STREET OFFICE INVOLVING ALL NON-URBAN RENEWAL PROJECTS SUCH AS HIGHWAYS, SCHOOLS, ETC.

BEGINNING WITH THE MASHAPAUG POND PROJECT, JANUARY 5, 1961, THE RELOCATION SERVICE, UNDER AN AGREEMENT WITH THE PROVIDENCE REDEVELOPMENT AGENCY, DISCONTINUED GIVING SERVICE TO COMMERCIAL ESTABLISHMENTS LOCATED IN PROJECTS UNDER THE JURISDICTION OF THE PROVIDENCE REDEVELOPMENT AGENCY. IN EFFECT, THIS CHANGE IN POLICY RESULTED IN THE RELOCATION DIVISION GIVING SERVICE ONLY TO COMMERCIAL ESTABLISHMENTS LOCATED ON ALL NON-URBAN RENEWAL AND REDEVELOPMENT SITES.

IN THE LAST HALF OF THIS FISCAL YEAR, THE RELOCATION SERVICE, AMONG ITS VARIED ACTIVITIES, TRAINED SIX HOUSING INSPECTORS IN THE AMERICAN PUBLIC HEALTH ASSOCIATION STANDARDS METHOD OF INSPECTION. THE SERVICE CONDUCTED A PLANNING SURVEY FOR THE EAST SIDE URBAN RENEWAL PROJECT (R-4) FROM THE SPRING OF 1961 THROUGH THE END OF THE FISCAL YEAR. SOME 2,021 DWELLING UNITS WERE INSPECTED, USING THE APHA METHOD DURING THIS PERIOD. ALSO, DURING THE SUMMER OF 1961, A PLANNING GRANT SURVEY WAS CONDUCTED BY TWO HOUSING INSPECTORS IN THE WEYBOSSET HILL URBAN RENEWAL PROJECT (R-7). THE STUDY ENTAILED 208 UNITS WITHIN THE PROJECT AREA.

ALTHOUGH THIS INFORMATION IS REQUIRED FOR DOCUMENTATION BY THE URBAN RENEWAL ADMINISTRATION OF HHFA, VALUABLE FACTUAL INFORMATION WAS OBTAINED DURING BOTH SURVEYS. IT MAY BE NOTED THAT THE SOCIAL ASPECT OF THE TOTAL PROGRAM CAME INTO FOCUS ON A LARGER SCALE DURING THE PAST YEAR. MORE SOCIAL AGENCIES WORKED CLOSELY WITH THE RELOCATION STAFF DURING THE PAST YEAR IN MEETING THE COMPLEX PROBLEMS FACING THE SERVICE. IT LIKEWISE CAN BE STATED THAT RELIGIOUS, EDUCATIONAL, AND CIVIC ORGANIZATIONS ARE PLAYING A GREATER PART IN HELPING TO SOLVE THE CHALLENGES CONFRONTING THE PROGRAM. A LARGE PORTION OF TIME HAS BEEN CONSUMED DURING THE YEAR IN WORKING WITH THE UNIQUE PROBLEM EVOLVING AROUND HOUSING FOR MINORITY FAMILIES. WITHOUT HESITATION, IT CAN BE NOTED THAT PROGRESS CONTINUES TO BE MADE IN THE FIELD OF INTERGROUP RELATIONS WITHIN THE COMMUNITY, ALTHOUGH THERE IS ROOM FOR FURTHER IMPROVEMENT.

IN THE SPRING OF 1961, THE RELOCATION SERVICE INFORMALLY ADOPTED A POLICY OF ACCEPTING LISTINGS ONLY ON AN OPEN-OCCUPANCY BASIS. AFTER A TRIAL PERIOD OF THREE MONTHS, THE RELOCATION SERVICE FORMALLY ANNOUNCED TO THE PUBLIC THAT THE SERVICE WOULD NOT ACCEPT LISTINGS THAT WERE RACIALLY RESTRICTED IN CARRYING OUT ITS RESPONSIBILITY TO THE COMMUNITY. IT IS ENCOURAGING TO REPORT THAT, SINCE THE ADOPTION OF THIS POLICY, A BETTER UNDERSTANDING HAS BEEN NOTED WITHIN THE COMMUNITY.

THE DIVISION WORKED WITH BROWN UNIVERSITY IN CONDUCTING A STUDY OF THE BUSINESS PROPERTIES DISPLACED AS A RESULT OF GOVERNMENTAL ACTION. THE RELOCATION STAFF WORKED CLOSELY WITH THE BOSTON COLLEGE SCHOOL OF BUSINESS ADMINISTRATION IN CONDUCTING A SURVEY RELATIVE TO DISPLACEMENT OF COMMERCIAL PROPERTIES WITHIN THE CITY OF PROVIDENCE.

IT HAS BEEN NOTED THAT A BETTER PATTERN OF DISPERSAL EXISTED RELATIVE TO THE VARIOUS PROJECTS UNDERTAKEN DURING THE PAST YEAR. IT IS INTERESTING TO POINT OUT THAT THE DISPERSAL OF FAMILIES FROM THE MASHAUG REDEVELOPMENT PROJECT AMOUNTED TO APPROXIMATELY 38% OF THE OCCUPANTS LEAVING THE CITY OF PROVIDENCE. TO DATE, THIS PROJECT HAD A HIGHER PERCENTAGE OF RESIDENTS MOVING FROM THE CITY AS COMPARED WITH ALL PAST PROJECTS.

DURING THE YEAR, 1,062 LISTINGS WERE REGISTERED WITH THE SERVICE. THIS FIGURE IS RUNNING SLIGHTLY UNDER THE PERCENTAGE OF THE PAST YEAR. FOR THE MOST PART, LISTINGS ARE DERIVED CHIEFLY FROM INDIVIDUAL HOME OWNERS. THE HOUSING SUPPLY CONTINUE TO BE ADEQUATE TO MEET THE NEEDS FOR PLANNED FUTURE PROJECT. THE CHIEF RESOURCES AVAILABLE TO THE RELOCATION SERVICE IN SEEKING LISTINGS ARE THE LOCAL PRESS, TELEVISION, RADIO, AND SPEAKING ENGAGEMENTS. MORE SITE OCCUPANTS HAVE PURCHASED HOMES OVER THE PAST YEAR THAN IN THE PREVIOUS YEARS. NUMERICALLY SPEAKING, IT WOULD APPEAR THAT THERE SHOULD BE AVAILABLE LISTINGS OF GOOD QUALITY WITHIN THE ECONOMIC REACH OF OUR OCCUPANTS FOR THE PROJECTS PLANNED TO DATE. VOLUNTARY RELOCATION ACTIVITIES ARE ON THE INCREASE WHICH FURTHER DEMONSTRATES, TO SOME DEGREE, THE AVAILABILITY OF STANDARD QUALITY HOUSING.

IN CONCLUSION, IT IS FELT THAT THE CONTINUED SUCCESS DURING THE PAST YEAR GIVES SOME INDICATION AS TO WHAT THE FUTURE HOLDS FOR THE RELOCATION PROGRAM. IT IS OUR EARNEST HOPE THAT WITH CONTINUED COOPERATION FROM ALL SEGMENTS OF THE COMMUNITY, GREATER STRIDES CAN BE MADE IN SOLVING THE COMPLEX PROBLEMS OF RELOCATION.

RESPECTFULLY SUBMITTED,

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DAVID JOYCE
ADMINISTRATOR.