

DECEMBER 31, 1952.

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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 ANNUAL REPORT COVERING THE WORK DONE BY THE DEPARTMENT OF PUBLIC WORKS FOR THE YEAR ENDING SEPTEMBER 30, 1952, IS SUBMITTED HERewith, PURSUANT TO THE PROVISIONS OF SECTION 46 OF CHAPTER 832 OF THE PUBLIC LAWS OF THE STATE OF RHODE ISLAND, JANUARY SESSION, 1940.

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

EMPLOYEES OF THIS DEPARTMENT COOPERATED WITH AND ASSISTED THE PUBLIC ADMINISTRATION SERVICE IN THEIR STUDY OF DEPARTMENTAL ACTIVITIES AND PREPARATION OF A COST ACCOUNTING SYSTEM.

OUR EXTENSIVE HIGHWAY CONSTRUCTION PROGRAM INCLUDED THE SURFACING, RESURFACING AND SEALCOATING OF HIGHWAYS; THE CONSTRUCTION OF NEW HIGHWAYS BY CONTRACT; AND THE RECONSTRUCTION OF HIGHWAYS BY CONTRACT, WHICH WORK WAS FINANCED WITH CITY, CITY AND STATE, AND STATE AND FEDERAL FUNDS.

THIS PROGRAM INCLUDED 113,732.0 SQ.YDS. OF SHEET ASPHALT PAVEMENT, 151,178.0 SQ.YDS. OF BITUMINOUS CONCRETE PAVEMENT, 55,584.0 SQ.YDS. OF BITUMINOUS MACADAM PAVEMENT, AND 48,642 SQ.YDS. OF SEALCOATING; MAKING A TOTAL OF 369,136 SQ.YDS. OF PAVEMENT.

INCLUDED IN THIS WORK WAS THE SURFACING OR RESURFACING OF 145,622 SQ.YDS. OF OLD HIGHWAYS WITH BITUMINOUS CONCRETE BY OUR HIGHWAY FORCES. THE SURFACING OF OLD PAVEMENTS WITH BITUMINOUS CONCRETE WAS STARTED SEVEN YEARS AGO AND RESULTS OBTAINED HAVE SURPASSED OUR EXPECTATIONS.

CONSTRUCTION OF THE TRAFFIC FACILITY IN OLNEYVILLE, WHICH IS BEING BUILT BY THE STATE DEPARTMENT OF PUBLIC WORKS AND FINANCED WITH FEDERAL AND CITY FUNDS, IS PROGRESSING SATISFACTORILY AND SHOULD BE COMPLETED IN NOVEMBER 1952. THIS TRAFFIC FACILITY WAS DEDICATED ON AUGUST 27, 1952 AND NAMED THE DENNIS J. ROBERTS EXPRESSWAY, AT WHICH TIME THE MAJOR PORTION OF THE FACILITY WAS OPENED TO TRAFFIC.

THE RECONSTRUCTION OF MANTON AVENUE, FROM OLNEYVILLE SQUARE TO THE CITY LINE, BY THE STATE DEPARTMENT OF PUBLIC WORKS, HAS BEEN COMPLETED, EXCEPT FOR THE TWO BRIDGES AND IT IS EXPECTED THAT THE TWO BRIDGES WILL BE COMPLETED EARLY IN 1953.

THE STATE DEPARTMENT OF PUBLIC WORKS AWARDED CONTRACTS FOR THE RECONSTRUCTION OF THOMAS STREET, FROM BENEFIT STREET TO NORTH MAIN STREET, TO THE CAMPANELLA AND CARDI CONSTRUCTION COMPANY AND ELMGROVE AVENUE, FROM ANGELL STREET TO BLACKSTONE BOULEVARD, TO THE M.A. GAMMINO CONSTRUCTION COMPANY. THE THOMAS STREET PROJECT SHOULD BE COMPLETED BY DECEMBER OF THIS YEAR AND THE ELMGROVE AVENUE PROJECT WILL BE STARTED IN MARCH 1953.

A CONTRACT FOR THE RE-DECKING OF MERINO BRIDGE ON GLENDRIDGE AVENUE WAS AWARDED TO THE M.A. GAMMINO CONSTRUCTION COMPANY, BUT WORK ON THIS PROJECT HAS NOT STARTED BECAUSE OF THE CONTRACTOR BEING UNABLE TO GET THE OPEN STREET GRATING. IT IS EXPECTED THAT THIS WORK WILL BE COMPLETED DURING THE SUMMER OF 1953.

CONTRACTS COVERING IMPROVEMENTS AT MUNICIPAL WHARF HAVE BEEN COMPLETED, EXCEPT FOR MINOR ALTERATIONS TO BE MADE ON THE "NEW TRANSIT SHED" PROJECT.

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

A CONTRACT FOR THE CONSTRUCTION OF NEW FENDERS AND DOLPHINS AT RED BRIDGE WAS AWARDED TO THE HARBOR CONSTRUCTION COMPANY. WORK ON THIS PROJECT WILL PROBABLY START NEXT JANUARY, AS THE CONTRACTOR EXPECTS DELIVERY OF TIMBER AND PILING IN DECEMBER OF THIS YEAR.

A CONTRACT FOR THE ERECTION OF A NEW STORAGE AND OFFICE BUILDING AT RED BRIDGE WAS AWARDED TO F. H. GUSTAFSON & SONS, INC., AND WORK ON THIS PROJECT SHOULD BE COMPLETED BY THE END OF THE YEAR.

A CONTRACT WAS AWARDED THE COKEN COMPANY FOR THE COMPLETE INSTALLATION OF A COORDINATED OUTDOOR SUBSTATION; MODIFICATIONS TO THE EXISTING 2400 VOLT INDOOR METAL-CLAD SWITCHGEAR IN THE GENERATING ROOM OF THE FIELDS POINT GARBAGE INCINERATOR PLANT, AND A NEW SECONDARY CONTROL PANEL FOR THE METAL-CLAD SWITCHGEAR IN THE OUTSIDE SUBSTATION. THE SUBSTATION WILL INCLUDE CONNECTION FACILITIES FOR THE INCOMING NARRAGANSETT ELECTRIC COMPANY POWER LINE AND WITH THE COMPLETION OF THIS PROJECT WE WILL HAVE AN AUXILIARY SOURCE OF POWER AVAILABLE WHICH MAY BE USED IN THE OPERATION OF THE PUMPING STATION, SEWAGE DISPOSAL WORKS AND GARBAGE INCINERATOR.

THE ENGINEERING FIRM OF METCALF & EDDY MADE A SURVEY AND STUDY OF THE SEWAGE DISPOSAL WORKS AND OUR PLANT PERSONNEL COOPERATED WITH AND ASSISTED THEM IN MAKING THE STUDY. THE METCALF & EDDY REPORT SHOWS THAT MAJOR IMPROVEMENTS SHOULD BE MADE TO THE TREATMENT PLANT AND RECOMMENDS THE MAKING OF OTHER STUDIES BEFORE THE FINAL SELECTION OF TREATMENT PROCESS IS MADE.

THE NICHOLS ENGINEERING AND RESEARCH CORPORATION HAVE ADVISED US THAT THE EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION OF THE NEW GARBAGE INCINERATOR SHOULD ARRIVE IN OCTOBER AND THE INSTALLATION SHOULD BE COMPLETED BY THE END OF THE YEAR.

WE HAVE ATTENDED MANY CONFERENCES RELATIVE TO THE DENNIS J. ROBERTS EXPRESSWAY, THE NORTH-SOUTH FREEWAY AND OTHER HIGHWAY MATTERS AND OUR RELATIONS WITH THE LOCAL OFFICE OF THE FEDERAL BUREAU OF PUBLIC ROADS, HEADED BY MR. HENRY J. MCKENNEY, AND THE STATE DEPARTMENT OF PUBLIC WORKS, HEADED BY MR. PHILIP S. MANCINI, HAVE BEEN VERY CORDIAL AND WE APPRECIATE THE ADVICE AND AID EXTENDED US IN SOLVING OUR MANY HIGHWAY CONSTRUCTION PROBLEMS.

I AM VERY GRATEFUL FOR AND APPRECIATIVE OF THE SPLENDID COOPERATION EXTENDED ME BY THE CITY COUNCIL COMMITTEE ON PUBLIC WORKS, COMPRISED OF CHAIRMAN JOHN F. BROCK, ANGELO AIELLO, RALPH MATERA, ERNEST C. MUNROE AND JOSEPH SCHLOSSBERG.

I WISH TO THANK ALL DIVISION HEADS AND EMPLOYEES OF THE DEPARTMENT FOR THEIR LOYALTY, VALUABLE AID AND ASSISTANCE, AND TO EXPRESS MY APPRECIATION FOR THE COOPERATION EXTENDED TO THE DEPARTMENT BY OTHER CITY DEPARTMENTS, OFFICERS AND EMPLOYEES.

RECOMMENDATIONS

CONTINUE THE PROGRAM OF CONSTRUCTING SEWERS AND HIGHWAYS IN UNIMPROVED STREETS, WHICH HAVE BEEN ORDERED BUILT BY CITY COUNCIL RESOLUTION.

REPLACE THE SMITH STREET BRIDGE WITH A NEW STRUCTURE.

ERECT A NEW FENCE ON THE BRIDGE ALONG WASHINGTON ROW.

CONSTRUCT A GARAGE AT THE SITE OF THE GARDAGE INCINERATOR TO HOUSE AND REPAIR ALL OF THE MOTOR VEHICLES OF THE SANITATION DIVISION. THE GARAGE AT KINSLEY AVENUE IS INADEQUATE AND MORE EFFICIENT OPERATION OF THE DIVISION WILL BE POSSIBLE BY CENTRALIZING ALL OF THE VEHICLES OF THE VARIOUS SECTIONS.

COMPLETELY OVERHAUL THE OLD GARDAGE INCINERATOR AND REPAIR OR REPLACE THE ASH CONVEYOR, METAL STACKS, PIT DOORS, ELECTRIC CRANE, OIL, STEAM AND WATER LINES, ASH HOPPER, PREHEATER, TUBES, BRICK WORK ON OUTSIDE OF BOTH BOILERS, AND ALL MECHANICAL EQUIPMENT.

CONNECT THE WATER MAIN IN TERMINAL ROAD TO THE GARDAGE INCINERATOR, THE ONLY SOURCE OF WATER SUPPLY AT THE PRESENT TIME IS FROM THE ERNEST STREET MAIN AND A BREAK IN THIS LINE WOULD LEAVE THE INCINERATOR WITHOUT A SUPPLY OF WATER. IT IS IMPERATIVE THAT A SUPPLY OF WATER BE AVAILABLE AT ALL TIMES.

HAVE A SURVEY AND STUDIES MADE OF CONDITIONS WHICH AFFECT THE SEWAGE TREATMENT PLANT AS RECOMMENDED BY METCALF & EDDY IN THEIR REPORT OF AUGUST 15, 1952 ON THE SEWAGE TREATMENT PLANT, AS FOLLOWS:

1. SURVEY OF THE POWER SUPPLY AVAILABLE AND REQUIRED FOR THE EFFICIENT OPERATION OF THE PUMPING STATION, GARDAGE INCINERATOR AND SEWAGE DISPOSAL WORKS.
2. A COMPLETE SANITARY SURVEY OF INDUSTRIAL WASTES BEING DISCHARGED INTO THE SEWERAGE SYSTEM.
3. PLANT-SCALE STUDIES OF THE HIGH-RATE ACTIVATED SLUDGE PROCESS AND THE BIOSORPTION PROCESS.

BASED UPON THE RESULTS OBTAINED FROM THE STUDIES, DECIDE UPON THE TYPE OF PROCESS TO BE ADOPTED; HAVE PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS PREPARED COVERING THE ALTERATIONS REQUIRED IN ORDER TO HAVE AN EFFICIENTLY OPERATED AND MAINTAINED TREATMENT PLANT; RECEIVE BIDS AND AWARD CONTRACT FOR THE REQUIRED IMPROVEMENTS.

MAKE IMPROVEMENTS AT MUNICIPAL WHARF, TO INCLUDE THE RENEWAL OF THE FENDER SYSTEM, RENEWAL OF OLD RAILROAD TRACKS, AND THE RECONSTRUCTION OF THE APRON ADJACENT TO THE OLD TRANSIT SHED,

THE GENERAL PUBLIC IS RESPONSIBLE FOR PLACING DEBRIS, SUCH AS PAPER, GRASS, HEDGE TRIMMINGS AND LEAVES IN THE CATCH BASINS OF OUR SEWER SYSTEM, THEREBY PREVENTING THE OPERATION OF THE TRAPS IN THE BASINS AND THE FLOW OF RAIN WATER FROM THE HIGHWAYS, ALSO DEBRIS IN THE HIGHWAYS IS PLACED THERE BY THE PUBLIC, THE WORST OFFENDERS BEING THE TRUCKERS WHO HAUL REFUSE FROM THE COMMERCIAL HOUSES AND THOSE CARRYING LOAM, SAND, DIRT, COAL AND GRAVEL IN UNCOVERED TRUCKS. TO RELIEVE THESE CONDITIONS, IT WOULD SEEM ADVISABLE TO PUBLICISE THEM AND URGE THE PUBLIC TO COOPERATE IN KEEPING OUR STREETS AND CATCH BASINS CLEAN.

CFM:MC.

RESPECTFULLY SUBMITTED,

Charles F. McElroy
CHARLES F. MCELROY
DIRECTOR OF PUBLIC WORKS.

IN CITY COUNCIL
FEB 5 - 1953

REPS:

WHEREAS IT IS ORDERED THAT
THE GAME BE RECEIVED.

R. Everett Whelan
CLERK

BUSINESS MANAGER

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, 1952:

STATEMENT OF REVENUE—ESTIMATED AND ACTUAL

	<u>BUDGET</u> <u>ESTIMATE</u>	<u>NET ACTUAL</u> <u>REVENUES</u>	<u>BUDGET</u> <u>EXCESS</u>	<u>COMPARISON</u> <u>DEFICIENCY</u>
BUSINESS AND NON-BUSINESS				
LICENSES:				
SIDEWALK CONTRACTORS AND SEWER CONNECTIONS	\$500.00	\$840.00	\$340.00	—
HIGHWAY PRIVILEGES	1700.00	1388.00	—	312.00
PUBLIC SERVICE ENGINEER	5000.00	3926.00	—	1074.00
AIR POLLUTION AND SMOKE ABATEMENT	5000.00	7671.00	2671.00	—
TOTAL BUSINESS AND NON-BUSINESS LICENSES	\$12200.00	\$13825.00	\$3011.00	\$1386.00
SPECIAL ASSESSMENTS:				
SEWERS	5501.46	5501.46	—	—
SIDEWALK AND CURBING	6500.00	280.73	—	6219.27
TOTAL SPECIAL ASSESSMENTS	\$12001.46	\$5782.19	—	\$6219.27
DEPARTMENTAL REVENUE:				
GENERAL ADMINISTRATION	—	149.48	149.48	—
STREET CLEANING	—	20.00	20.00	—
SEWAGE PUMPING STATIONS	—	136.92	136.92	—
SEWAGE DISPOSAL	—	990.83	990.83	—
GARBAGE COLLECTION AND DISPOSAL	—	13784.83	13784.83	—
REFUSE COLLECTION AND DISPOSAL	—	15.00	15.00	—
HIGHWAYS	18000.00	28113.49	10113.49	—
BRIDGE MAINTENANCE	—	124.92	124.92	—
FORESTRY	—	17.89	17.89	—
SEWER CONSTRUCTION AND MAINTENANCE	36000.00	36812.98	812.98	—
PUBLIC BUILDINGS	—	438.00	438.00	—
STREET LIGHTING	—	94.92	94.92	—
MUNICIPAL DOCKS	175300.00	194969.15	19669.15	—
HARBORS	—	9.18	9.18	—
TOTAL DEPARTMENT REVENUE	\$229300.00	\$275677.59	\$46377.59	—
TOTAL STATEMENT	\$253501.46	\$295284.78	\$49388.59	\$7605.27

STATEMENT OF EXPENDITURES

FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1952.

	SERVICES		MATERIALS		SPECIAL	EQUIPMENT	STRUCTURES		TOTAL
	PERSONAL	OTHER THAN PERSONAL	AND SUPPLIES	ITEMS	OUTLAY	AND IMPROVEMENTS			
GENERAL ADMINISTRATION	19309.40	1074.01	309.78	—	1900.00	—	—	22593.89	
BUSINESS MANAGEMENT	32554.54	559.15	1386.79	—	—	—	—	34500.48	
ENGINEERING OFFICE	96246.76	3665.55	1266.03	—	351.15	—	—	101529.49	
<u>SANITATION DIVISION:</u>									
SANITATION ADMINISTRATION	7470.67	50.65	62.87	—	1321.00	—	—	8905.19	
STREET CLEANING	280841.90	7080.43	19875.84	—	10128.99	—	—	317927.16	
SEWAGE PUMPING STATION	40483.16	409.20	3967.49	—	—	—	—	44859.85	
SEWAGE DISPOSAL	85940.08	6841.98	100445.36	—	333.00	—	—	193560.42	
GARBAGE COLLECTION AND DISPOSAL	432893.01	21781.62	42736.30	—	1872.01	—	—	499282.94	
REFUSE COLLECTION AND DISPOSAL	75948.56	926.87	9231.22	—	—	—	—	86106.65	
<u>CONSTRUCTION AND MAINTENANCE DIVISION:</u>									
CONSTRUCTION & MAINTENANCE ADMINISTRATION	7470.67	12.00	273.60	—	309.50	—	—	8065.77	
HIGHWAYS	776526.68	26915.07	180663.77	34.08	32221.99	3435.00	—	5000.00*	
BRIDGE MAINTENANCE	39988.20	815.91	5672.68	—	295.00	—	—	1069796.59	
SIDEWALKS AND CURBING	13411.78	558.18	1690.57	—	—	—	—	15660.53	
FORESTRY	55500.33	3257.43	9867.87	—	1140.00	—	—	69765.63	
SNOW REMOVAL	58075.17	2111.55	14101.90	—	7022.50	—	—	81311.12	
SEWER CONSTRUCTION AND MAINTENANCE	269018.12	7610.17	22666.65	—	24596.85	—	—	323891.79	
PUBLIC BUILDINGS	83146.48	2715.74	3883.02	10.00	1444.31	—	—	91199.55	
<u>PUBLIC SERVICE DIVISION:</u>									
PUBLIC SERVICE ADMINISTRATION	15929.60	539.76	187.90	—	298.59	—	—	16955.85	
ELECTRICAL INSPECTION	16012.60	973.99	689.05	—	1165.00	—	—	18840.64	
STREET LIGHTING	—	377162.47	—	—	—	—	—	377162.47	
AIR POLLUTION & SMOKE ABATEMENT	20005.75	1493.55	308.67	—	—	—	—	22607.97	
MUNICIPAL DOCKS	30979.25	3742.23	1566.94	—	—	15197.04	—	51485.46	
DRAW BRIDGE OPERATION	50663.36	1026.96	681.65	—	—	—	—	52576.97	
HARBOR MASTER	3121.37	138.68	328.76	—	—	—	—	3588.81	
TOTAL—PUBLIC WORKS ACTIVITIES	\$2512542.74	\$471463.15	\$421864.71	\$44.08	\$84399.89	\$131130.04	—	\$3621444.31	

*\$50,000.00 FOR HIGHWAY CONSTRUCTION AT HARTFORD PARK HOUSING PROJECT.

THE FOLLOWING SERVICES WERE ALSO RENDERED BY THIS DEPARTMENT:

APPLICATIONS RECEIVED AND ORDERS ISSUED TO THE HIGHWAY:

FOR ALTERING DRIVEWAYS	49
CONSTRUCTION OF DRIVEWAYS	379
CURBING RESETS	<u>61</u>
TOTAL APPLICATIONS	489

LICENSES ISSUED:

PUSH CARTS	33
SIDEWALK STANDS	42
DRAIN LAYERS LICENSES	8
DRAIN LAYERS LICENSES LIMITED TO SPRINKLER SYSTEMS	<u>4</u>
TOTAL LICENSES	87

PERMITS ISSUED:

PUBLIC UTILITIES STREET OPENINGS	611
BLASTING	2
FOR MOVING CUMBERSOME EQUIPMENT, ETC.	35
STREET EXCAVATING (WATER SUPPLY BOARD)	344
ORIGINAL SEWER	308
EXTENSION SEWER	380
WATER-SIDEWALK	<u>50</u>
TOTAL PERMITS	1730

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, 1952:

STREET LINE AND CITY PROPERTY SECTION

NOTICES OF INTENTION TO BUILD:

THERE WERE 311 NOTICES OF INTENTION TO BUILD FILED IN THIS OFFICE DURING THE FISCAL YEAR. NINETEEN OF THESE WERE NOT REQUIRED FOR VARIOUS REASONS. IN RESPONSE TO THE REMAINING 292 NOTICES THE STREET LINES WERE MARKED ON THE GROUND AT THE SPECIFIED BUILDING SITES.

SURVEYS OF THOSE STREETS ACCEPTED BY THE CITY WERE MADE AND LAY-OUT MAPS WERE DRAWN FOR OFFICE USE AND FOR THE OFFICIAL RECORDS OF THE CITY CLERK.

INFORMATION CONCERNING 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.

RECORDS FOR DETERMINING THE STREET LINES OF THE HIGHWAYS CONSTRUCTED UNDER THE SUPERVISION OF THE STATE OF RHODE ISLAND WERE FURNISHED TO ENGINEERS EMPLOYED BY THE STATE.

DESCRIPTIONS OF AREAS AT INTERSECTING STREETS TO BE DEDICATED AS MEMORIAL SQUARES BY THE CITY COUNCIL WERE PREPARED AS REQUIRED FOR THE CITY CLERK.

STONE BOUNDS WERE SET ON SEVERAL STREETS AND EXISTING BOUNDS WERE RESET ON STREETS WHERE THE BOUNDS HAS BEEN DISPLACED BY HIGHWAY CONSTRUCTION.

DUPLICATES OF WORN OUT STREET LAY-OUT PLANS WERE DRAWN FOR OFFICE USE.

THE FOLLOWING STREETS WERE RECEIVED UNDER THE VARIOUS FORMS GOVERNING THE ACCEPTANCE OF STREETS DURING THE YEAR,

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
ALLSTON STREET	HAROLD ST. TO RIVER AVE.	577.96
BARBARA STREET	GLENBRIDGE AVE. TO DONAGANSETT AVE.	690.46
BRADFORD STREET	CEDAR ST. TO WEST EXCHANGE ST.	219.17
BRYANT STREET	ALLSTON ST. TO REGENT AVE.	190.00
CASS STREET	EDDY ST. TO ERNEST ST.	292.09
CHATHAM STREET	ASHTON ST. TO NORTHUP AVE.	870.11
CUMBERLAND STREET	SANDRINGHAM AVE. TO ADMIRAL ST.	623.47
CUTLER STREET	NEWARK ST. TO ATWELLS AVE.	182.86
DALLAS STREET	KENTLAND AVE. TO WINONA ST.	180.00
DEDHAM AVENUE	KILLINGLY ST. TO A POINT 620 FEET NORTHERLY FROM NORTHWESTERLY CORNER DEDHAM AVE. AND KILLINGLY ST.	634.02
ETNA STREET	CLEVELAND ST. TO HARTFORD AVE.	287.43
FARM STREET	MOUNT PLEASANT AVE. TO LAWN ST.	883.56
FORSYTH STREET	COGGESHALL ST. TO MOWRY ST.	453.06

FUNSTON AVENUE	GENTIAN AVE. TO 600 FT. EASTERLY	600.00
HAUXHURST STREET	MAGDALENE ST. SOUTHERLY TO RECEIVED PORTION	160.00
HENRIETTA STREET	WILD ST. TO MOY ST.	380.00
HORTON STREET	NORTHUP AVE. TO NORTHERLY TERMINATION	482.04
MANOMET STREET	WINTHROP AVE. TO STANDISH AVE.	160.00
MINK ROAD	ENFIELD AVE. TO ACADEMY AVE.	519.00
MINTO STREET	METROPOLITAN RD. TO WHITFORD AVE.	491.40
OCTAVIA STREET	SISSON ST. TO WESTERLY TERMINATION	303.01
ROYAL AVENUE	ADMIRAL ST. TO GENTIAN AVE.	653.26
SALMON STREET	PORTION RECEIVED TO POINT 330 FT. SOUTHERLY FROM SOUTHERLY LINE KING ST.	330.00
SWIFT STREET	SILVER SPRING ST. TO JOB ST.	779.78
SWIFT STREET	JOB ST. TO 250 FT. WESTERLY	250.00
SWIFT STREET	PORTION RECEIVED WEST OF JOB ST. TO 35 FT. WESTERLY	35.00
TOURO STREET	LOMBARDI ST. TO BRANCH AVE.	1,023.31
WANSKUCK AVENUE	ADMIRAL ST. TO GENTIAN AVE.	398.14
WINONA STREET	ADMIRAL ST. TO GENTIAN AVE.	910.50
	TOTAL (FEET)	13,559.63
	OR 2.568 MILES	

THE ABOVE INCREASE MAKES THE LENGTH OF RECEIVED STREETS (MEASURED ALONG PROPERTY LINES) 354,019 MILES.

THE FOLLOWING STREETS WERE ABANDONED DURING THE YEAR:

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
ANDERSON STREET	ALEPPO ST. TO CURTIS ST.	249.50
PANAY STREET	ALEPPO ST. TO CURTIS ST.	249.50
MANSON STREET	ATWELLS AVE. TO SPRUCE ST.	302.50
	TOTAL (FEET)	701.50

THERE HAS BEEN A DECREASE OF 2.701 MILES IN THE TOTAL OF PLATTED STREETS.

THE APPROXIMATE LENGTH OF STREETS PLATTED BUT NOT RECEIVED IS 68.194 MILES.

PLANS AND SURVEYS WERE MADE COVERING THE FOLLOWING PROJECTS:

ABORN, FOUNTAIN WASHINGTON AND BEVERLY STREETS	OFF STREET PARKING FACILITIES
SERVOCE ROAD NO. 6	PROPOSED SALE
WEST EXCHANGE AND GASPEE STREETS	PROPOSED CUTOFF
PLEASANT VALLEY PARKWAY	PROPOSED EXCHANGE OF LAND
WEST EXCHANGE AND GASPEE STREETS	PROPOSED CUTOFF
GENTIAN AVENUE AND ADMIRAL STREET	PROPOSED SALE
TOCKWOTTON PARK	INFORMATION FOR ARCHITECT
CUMBERLAND STREET	PROPOSED EXTENSION
DUNCAN AVENUE AND CAMP STREET	HIGHWAY DEDICATION
MINK ROAD	PROPOSED ABANDONMENT OF SMALL PORTION
WEBSTER AVENUE	PROPOSED SALE OF SCHOOL PROPERTY
EAGLE STREET	CONDEMNATION FOR HIGHWAY PURPOSED
HARRIS AVENUE	PROPOSED SALE (SCHOOL SITE)
GROTTO AVENUE	PROPOSED ABANDONMENT OF PORTION
EATON STREET	PROPOSED SALE (PORTION OF FIRE STATION PROPERTY)
DUNCAN AVENUE	PROPOSED ABANDONMENT
MANSON STREET	PROPOSED ABANDONMENT

PANAY STREET	PROPOSED ABANDONMENT
ANDERSON STREET	PROPOSED ABANDONMENT
HENDRICK STREET	PROPOSED LEASE
GANO STREET	PROPOSED LEASE
TRIGGS MEMORIAL PARK	PROPOSED SALE (SMALL PORTION)
THOMAS STREET	WIDENING FOR HIGHWAY PURPOSES
CANAL STREET AND SCHLEY SQUARE	CONDEMNATION FOR HIGHWAY PURPOSES
NORTH MAIN AND MILL STREETS	CONDEMNATION FOR HIGHWAY PURPOSES
ISABELLA AVENUE	LAND REQUIRED FOR EXTENSION
MATSON AVENUE	LAND FOR HIGHWAY PURPOSES
SOUTH MAIN STREET	PROPOSED SALE (FIRE STATION)
SACKETT STREET	PROPOSED PURCHASE FOR PLAYGROUND

NUMEROUS PLANS WERE MADE DURING THE YEAR TO ASSIST THE CITY COUNCIL IN PASSING ON PROPOSED CHANGES IN THE ZONING MAP AS PETITIONED BY VARIOUS PERSONS. THE FOLLOWING AMENDMENTS HAVE BEEN APPROVED:

ADMIRAL AND CHAD BROWN STREETS	PLAIN AND PUBLIC STREETS
JONA STREET	ADMIRAL AND MOWRY STREETS
WATERMAN STREET	HOME AVENUE AND FARM STREET
ELMGROVE AVENUE	ATWELLS AVENUE
POCASSET AND WEBSTER AVENUES	HAROLD STREET
WESTMINSTER STREET	CHARLES STREET
BRANCH AND DOUGLAS AVENUES	WESTMINSTER AND KNIGHT STREETS

THE FOLLOWING CONDEMNATION PLANS WERE MADE FOR THE RECORDER OF DEEDS OFFICE:

EAGLE ST.	NORTH MAIN & MILL STS.
CANAL ST. & SCHLEY SQ.	CUMBERLAND ST.

NORTH BURIAL GROUND

DURING THE YEAR 55 DEEDS OF LOTS CONVEYED BY THE CITY AND 77 CERTIFICATES OF PERPETUAL CARE OF LOTS HAVE BEEN DRAWN UP. LOTS WERE STAKED OUT AND SELLING PLANS WERE MADE AS REQUIRED BY THE SUPERINTENDENT.

GENERAL

TRANSITS AND LEVELS WERE TESTED AND THE MAGNETIC VARIATION OF THE COMPASS WAS OBSERVED AND RECORDED.

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

THE ANNUAL TABULATION OF ALL REAL ESTATE OWNED BY THE CITY SHOWING THE DIFFERENT CLASSIFICATIONS, INCLUDING THE VALUATIONS FURNISHED BY THE CITY ASSESSOR WAS PREPARED FOR INCLUSION IN THE ANNUAL REPORT OF THE CITY CONTROLLER.

RESOLUTIONS OF THE CITY COUNCIL WERE PREPARED COVERING ALL ACTIONS RELATING TO STREETS AND HIGHWAYS.

FOR THE RECORDER OF DEEDS PLATS PRESENTED FOR RECORD HAVE BEEN COMPARED AND PLATS FOR RECORDING HAVE BEEN FURNISHED UNDER THE PROVISIONS OF CHAPTERS 987 AND 2118 OF THE PUBLIC LAWS.

DESCRIPTIONS FOR ALL LAND CONDEMNATION STATEMENTS AND FOR DEEDS, LEASES AND RIGHTS-OF-WAY TO AND FROM THE CITY WERE FURNISHED TO THE LAW DEPARTMENT AND OTHER ASSISTANCE RENDERED THIS DEPARTMENT AS REQUESTED.

OTHER ASSISTANCE HAS BEEN GIVEN TO THE PUBLIC BUILDINGS DIVISION, POLICE DEPARTMENT, CITY PLAN COMMISSION, TRAFFIC DIVISION, BOARD OF CANVASSERS, CITY CLERK'S OFFICE, PARK DEPARTMENT, RECREATION DEPARTMENT AND THE PROVIDENCE HOUSING AUTHORITY AS REQUESTED FROM TIME TO TIME.

MAPS PUBLISHED BY VARIOUS MAP MAKERS AND SENT TO THE DEPARTMENT FOR CURRENT CHANGES IN POINTS OF INTEREST, THROUGH ROUTES, STREET NAME CHANGES, ADDITIONS OR ABANDONMENTS WERE REVISED AND RETURNED TO THE PUBLISHERS.

HIGHWAY SECTION

WORK PERFORMED IN GENERAL WAS AS FOLLOWS:

ESTIMATE OF THE COST OF MAKING IMPROVEMENTS, CONSISTING OF DRIVEWAYS, FURNISHING AND SETTING CURBING, RELAYING PAVEMENTS IN DRIVEWAYS, CHANGING CURB DESIRED BY VARIOUS INDIVIDUALS OR CORPORATIONS, WERE FURNISHED THE DIRECTOR OF PUBLIC WORKS.

BUILDING NOTICES: GRADES EITHER PROPOSED, DEFINED, OR ESTABLISHED HAVE BEEN MARKED OUT ON THE GROUND FOR PARTIES INTENDING TO BUILD ON TWENTY-FOUR STREETS, COVERING THIRTY-THREE APPLICATIONS.

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

PROFILES: PROFILES OF SUNDRY STREETS, APPROXIMATELY 1.53 MILES HAVE BEEN MADE FOR THE PURPOSE OF DEFINING GRADES. THE CONTOURS OF THE CENTER AND SIDE LINES ARE SHOWN AT FIFTY FOOT STATIONS, ALSO THE LEVELS OF THE SILLS AND GROUND LINES OF THE HOUSES ADJOINING THE STREETS. THE PLAN ACCOMPANYING THE PROFILE SHOWS THE DIVISION OF ESTATES, OWNERSHIP AND HOUSES.

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

APPROXIMATE ESTIMATES OF THE AMOUNTS OF MATERIAL REQUIRED IN RESURFACING, REPAIRING OR RECONSTRUCTING SUNDRY STREETS WERE FURNISHED THE HIGHWAY SECTION.

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

<u>STREET</u>	<u>SQ.YDS.</u>	<u>TYPE</u>
AMERICA ST., BROADWAY TO ATWELLS AVE.	2,909	BITUMINOUS CONCRETE
ATLANTIC AVE., ELMWOOD AVE. TO RESERVOIR AVE.	357	BITUMINOUS CONCRETE
BEACON AVE., BROAD ST. TO POINT ST.	3,431	BITUMINOUS CONCRETE
BLACKSTONE BLVD.(W.SIDE) HOPE ST. TO BUTLER AVE.	19,636	BITUMINOUS CONCRETE
BROOK ST. WATERMAN ST. TO HOPE ST.	5,554	BITUMINOUS CONCRETE
CAMP ST., OLNEY ST. TO ROCHAMBEAU AVE.	14,277	BITUMINOUS CONCRETE
CARPENTER ST., MARSHALL ST. TO KNIGHT ST.	2,978	BITUMINOUS CONCRETE
COURTLAND ST., WESTMINSTER ST. TO BROADWAY	2,413	BITUMINOUS CONCRETE
DEAN ST., BROADWAY TO ATWELLS AVE.	2,332	BITUMINOUS CONCRETE
DOUGLAS AVE., EATON ST. TO CITY LINE	24,236	BITUMINOUS CONCRETE
EDDY ST., ERNEST ST. TO BROAD ST.	12,838	BITUMINOUS CONCRETE
EVERETT AVE., ELMGROVE AVE. TO TABER AVE.	1,131	BITUMINOUS CONCRETE

HENDERSON ST., EDDY ST. TO ALLENS AVE.	1,101	BITUMINOUS CONCRETE
HOPE ST., WATERMAN ST. TO WILLIAMS ST.	6,694	BITUMINOUS CONCRETE
HOSPITAL ST., EDDY ST. TO BASSETT ST.	5,719	BITUMINOUS CONCRETE
MT. PLEASANT AVE., ATWELLS AVE. TO CHALKSTONE AVE.	8,287	BITUMINOUS CONCRETE
MT. PLEASANT AVE., CHALKSTONE AVE. TO METROPOLITAN RD.	6,810	BITUMINOUS CONCRETE
MURRAY ST., PLAINFIELD ST. TO SYBIL ST.	2,820	BITUMINOUS CONCRETE
NEW YORK AVE., EDDY ST. TO NARRAGANSETT BLVD.	7,847	BITUMINOUS CONCRETE
PACIFIC AVE., BURRINGTON ST. TO ACQUIDNECK ST.	3,663	BITUMINOUS CONCRETE
PRESIDENT AVE., ELMGROVE AVE. TO ARLINGTON AVE.	4,435	BITUMINOUS CONCRETE
SUTTON ST. BROADWAY TO ATWELLS AVE.	3,143	BITUMINOUS CONCRETE
WEEDEN ST. FEDERAL ST. TO ATWELLS AVE.	520	BITUMINOUS CONCRETE
WOOD ST. SERVICE ROAD TO MESSER ST.	<u>2,491</u>	BITUMINOUS CONCRETE
TOTAL	145,622	

HIGHWAYS RECONSTRUCTED BY STATE DEPARTMENT OF PUBLIC WORKS

	<u>SQ.YDS.</u>	<u>TYPE</u>
BROADWAY, BARTON ST. TO OLNEYVILLE SQ.	7,174.0	SHEET ASPHALT
GASPEE ST., RAILROAD ST. TO SMITH ST.	12,303.0	SHEET ASPHALT
MANTON AVE., DELAINE ST. TO CITY LINE	43,911.0	SHEET ASPHALT
NORTH MAIN ST., COLLEGE ST. TO THOMAS ST.	3,480.0	SHEET ASPHALT
RAILROAD ST., GASPEE ST. TO FRANCIS ST.	2,276.0	SHEET ASPHALT
SMITH ST., RIVER BRIDGE TO FRANCIS ST.	8,376.0	BITUMINOUS CONCRETE
SOUTH MAIN ST., CRAWFORD ST. TO COLLEGE ST.	2,531.5	SHEET ASPHALT
STILLMAN ST., PROMONADE ST. TO GASPEE ST.	<u>3,635.0</u>	SHEET ASPHALT
TOTAL	83,686.5	

SPECIAL HIGHWAY CONSTRUCTION BY CITY OF PROVIDENCE UNDER CONTRACT

	<u>SQ.YDS.</u>	<u>TYPE</u>
PLAINFIELD ST., OLNEYVILLE SQ. TO NEAR DUXBURY ST.	23,294.5	SHEET ASPHALT
POCASSET AVE., PLAINFIELD ST. TO POINT WESTERLY	<u>436.0</u>	SHEET ASPHALT
TOTAL	23,730.5	

HIGHWAYS CONSTRUCTED BY UNITED TRANSIT CO.

	<u>SQ.YDS.</u>	<u>TYPE</u>
SOUTH MAIN ST., CRAWFORD ST. TO BRIDGE ST.	12,172.0	SHEET ASPHALT
WICKENDEN ST., SOUTH MAIN ST. TO BRIDGE ST.	<u>2,519.0</u>	SHEET ASPHALT
TOTAL	14,691.0	

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

<u>STREET</u>	<u>SQ.YDS.</u>	<u>TYPE</u>
ALGER AVE., CARLISLE ST. TO NORTHERLY TERMINATION	1,092	BITUMINOUS MACADAM
ALGER AVE., MCKINLEY ST. TO HAMLIN ST.	754	" "
ALLSTON ST., HAROLD ST. TO RILL ST.	715	" "
ARGOL ST., SOUTHERLY TERMINATION TO NELLIE ST.	2,931	" "
CALLAN ST., MT. PLEASANT AVE. TO SMITH ST.	2,352	" "
CARNAC ST., MARIETTA ST. TO GILLEN ST.	571	" "
CHATHAM ST., ASHTON ST. TO NORTHUP AVE.	2,450	" "
CLEVELAND ST., LAUREL HILL AVE. TO MERINO ST.	1,549	" "
COLLEGE ROAD, SHARON ST. TO PORTION BUILT	1,224	" "
CUMERFORD ST., WALLACE ST. TO STERLING AVE.	1,653	" "
DALLAS ST., KENTLAND AVE. TO WINONA AVE.	540	" "
DIPINEDO ST., SILVER SPRING ST. TO JOB ST.	3,121	" "
EDGEWORTH AVE., CITY LINE TO ARGOL ST.	2,065	" "
FARM ST., MT. PLEASANT AVE. TO LAWN ST.	2,450	" "
FOCH AVE., SMITHFIELD AVE. TO ARGOL ST.	2,212	" "

FUNSTON AVE., GENTIAN AVE. TO POINT EASTERLY	1,666	BITUMINOUS MACADAM
HAMLIN ST., PORTION BUILT TO ALGER AVE.	192	" "
HORTON ST., NORTHUP AVE. TO NORTHERLY TERMINATION	1,318	" "
ITALY ST., ADMIRAL ST. TO VENTURA ST.	1,853	" "
LAKE ST., PARSONAGE ST. TO HOSPITAL ST.	552	" "
MALBONE ST., CHAD BROWN ST. TO EATON ST.	2,253	" "
METCALF ST., SILVER SPRING ST. TO GRAFTON ST.	1,520	" "
MINK ROAD, ACADEMY AVE. TO ENFIELD AVE.	1,800	" "
MINTO ST., METROPOLITAN RD. TO WHITFORD AVE.	1,350	" "
PLEASANT VALLEY PARKWAY, ACADEMY AVE. TO JUSTICE ST.	2,700	" "
ROYAL AVE., ADMIRAL ST. TO GENTIAN AVE.	1,873	" "
STONELAW AVE., SHARON ST. TO POINT EASTERLY	1,568	" "
SWEETBRIAR ST., OAKLAND AVE. TO MALBONE ST.	575	" "
SWIFT ST., SILVER SPRING ST. TO POINT WEST OF JOB ST.	4,140	" "
WANSKUCK AVE., ADMIRAL ST. TO GENTIAN AVE.	1,184	" "
WINONA AVE., ADMIRAL ST. TO GENTIAN AVE.	2,542	" "
TOTAL	52,764	

THE FOLLOWING STREETS WERE SEAL-COATED

STREET	SQ. YDS.
DIXON ST., ELMWOOD AVE. TO STAMFORD AVE.	1,089
EVERETT AVE., TABER AVE. TO ARLINGTON AVE.	1,580
JEWELL ST., PLAINFIELD ST. TO KILLINGLY ST.	1,121
LENOX AVE., BROAD ST. TO ELMWOOD AVE.	9,409
LOWELL AVE., PLAINFIELD ST. TO HARTFORD AVE.	5,535
MARGRAVE AVE., BLACKSTONE BLVD. TO GROTTO AVE.	827
MERINO ST., PLAINFIELD ST. TO EASTWOOD AVE.	2,511
PETTEYS AVE., KILLINGLY ST. TO HARTFORD AVE.	6,738
PLEASANT ST., NORTH MAIN ST. TO CAMP ST.	3,501
SAWYER ST., STAMFORD AVE. TO WESTERLY TERMINATION	2,193
SPOONER ST., ELMWOOD AVE. TO STAMFORD AVE.	1,089
STAMFORD ST., SPOONER ST. TO MCKINLEY ST.	3,964
SUMTER ST., BROAD ST. TO RUSKIN ST.	7,996
THURSTON ST., ELMWOOD AVE. TO STAMFORD AVE.	1,089
TOTAL	48,642

CONSTRUCTION WAS IN PROGRESS IN THE FOLLOWING STREETS ON SEPTEMBER 30, 1952

ALLSTON ST., RIVER AVE. TO BRYANT ST.
 BARBARA ST., GLENBRIDGE AVE. TO PONAGANSETT AVE.
 BRYANT ST., ALLSTON ST. TO REGENT AVE.
 CANAL ST., STEEPLE ST. TO MILL ST.
 CASS ST., EDDY ST. TO ERNEST ST.
 CUMBERLAND ST., ADMIRAL ST. TO SANDRINGHAM AVE.
 DEDHAM AVE., KILLINGLY ST. TO POINT NORTHERLY
 FILLMORE ST., ADMIRAL ST. TO OREGON ST.
 FORSYTH ST., COGGESHALL ST. TO MOWRY ST.
 HARRIS AVE., ATWELLS AVE. TO EXPRESS-WAY
 HAUXHURST ST., PORTION BUILT TO MAGDALENE ST.
 MANOMET ST., WINTHROP AVE. TO STANDISH AVE.
 MILL ST., CANAL ST. TO CHARLES ST.
 MT. PLEASANT AVE., METROPOLITAN RD. TO SMITH ST.
 NORTH MAIN ST., MILL ST. TO POINT EASTERLY
 OCTAVIA ST., SIBSON ST. TO WESTERLY TERMINATION
 OLNEYVILLE SQ.
 SALMOR ST., KING ST. TO POINT SOUTHERLY
 SMITH ST., NORTH MAIN ST. TO RIVER BRIDGE
 TOURO ST., BRANCH AVE. TO LOMBARDI ST.

FOLLOWING IS A LIST OF UNIMPROVED STREETS ORDERED BUILT BY THE BOARD OF ALDERMEN OR CITY COUNCIL, CONSTRUCTION OF WHICH HAVE NOT BEEN COMMENCED.

<u>STREET</u>	<u>CURB ORDERED</u>	<u>LENGTH IN FEET</u>
ALLSTON ST., BRYANT ST. TO HAROLD ST.	OCT. 5, 1951	338
CRARY ST., ALLENS AVE. TO EAST LINE, UNNAMED STREET	DEC. 5, 1940	276
CUTLER ST., NEWARK ST. TO ATWELLS AVE.	AUG. 7, 1952	206
ETNA ST., CLEVELAND ST. TO HARTFORD AVE.	AUG. 7, 1952	306
HENRIETTA ST., MOY ST. TO WILD ST.	AUG. 7, 1952	386
ROWLEY ST., CHALKSTONE AVE. TO GERARDI AVE.	APRIL 21, 1938	859
ROWLEY ST., SOUTH LINE GERARDI AVE. TO NORTH LINE OF BATTERSON ST.	APRIL 21, 1938	824
TRAINOR ST., ACORN ST. TO BALBO AVE.	JUNE 20, 1935	249
UNNAMED PLATTED STREET, CRARY ST. TO GLOBE ST.	DEC. 5, 1940	117
	TOTAL	3,561

FOLLOWING IS A LIST OF UNIMPROVED STREETS FOR WHICH PETITIONS HAVE BEEN MADE TO THE CITY COUNCIL AND REFERRED TO THE PUBLIC WORKS COMMITTEE:

PETITIONS TO HAVE GRADE DEFINED

<u>DATE</u>	<u>STREET AND LOCATION</u>
OCT. 7, 1948	PAOLINO ST., FROM KILLINGLY ST. TO CITY LINE
OCT. 7, 1948	WELL ST., FROM TOWER ST. TO WILLIAMS ST.
OCT. 21, 1948	SHERWOOD ST., FROM DOUGLAS AVE. TO CORNWALL ST.
OCT. 21, 1948	LOCUST ST., FROM MT. HOPE AVE. TO WESTERLY TERMINATION
MAR. 24, 1949	CULVER ST., FROM WILLARD AVE. TO BLACKSTONE ST.
MAY 5, 1949	BINGHAM ST., FROM BRANCH AVE. TO CAXTON ST.
MAY 5, 1949	CARDER ST., FROM CAXTON ST. TO SOUTHERLY TERMINATION
MAY 5, 1949	CAXTON ST., FROM VEAZIE ST. TO NORTHERLY TERMINATION.
JUNE 2, 1949	FAIRFIELD AVE., FROM PORTION NOW IMPROVED TO RICHLAND ST.
JULY 7, 1949	GREELEY ST., FROM HAGAN ST. TO AVENTINE AVE.
JULY 7, 1949	ISABELLA AVE., FROM ENFIELD AVE. TO SHALON ST.
AUG. 4, 1949	SUNDURY ST., FROM CUMBERLAND ST. TO RIVER AVE.
SEPT. 1, 1949	MOUNT AVE., FROM BLACKSTONE BLVD. TO GROTTO AVE.
SEPT. 15, 1949	SECOND ST., FROM HIGHLAND AVE. TO CRESTON WAY.
SEPT. 15, 1949	BALMORAL AVE., FROM RIVER AVE. TO LASALLE DRIVE.
DEC. 1, 1949	NORTH AVE., FROM HOPE ST. TO BLACKSTONE BLVD.
DEC. 1, 1949	GROTTO AVE., FROM UPTON AVE. TO NORTHERLY TERMINATION.
DEC. 15, 1949	PRICE ST., FROM SACKETT ST. TO SOUTHERLY TERMINATION.
JULY 6, 1950	PEQUOT ST., FROM ATWELLS AVE. TO MOUNTAIN ST.
SEPT. 21, 1950	BADGER ROAD, FROM SHARON ST. TO HILLVIEW ST.
OCT. 19, 1950	ALEPPO ST., FROM PELHAM ST. TO ITS TERMINATION.
DEC. 7, 1950	SIDYL ST., FROM MERCY ST. TO MURRAY ST.
DEC. 21, 1950	PORTER ST., FROM ERNEST ST. TO EDDY ST.
JAN. 18, 1951	SCHOOL ST., FROM VALLEY ST. TO HARRIS AVE.
JAN. 18, 1951	EVELYN ST., FROM UNION AVE. TO PRUDENCE AVE.
APR. 5, 1951	WOODSIDE ROAD, FROM BRUSH HILL ROAD TO RUBY STREET.
APR. 19, 1951	MESSANGER ST., FROM ATWELLS AVE. TO SPRUCE ST.
MAY 3, 1951	BENEDICT ST., FROM CRANSTON ST. TO HUNTINGTON AVE.
JUNE 7, 1951	RAPHAEL AVE., FROM LANGDON ST. TO CHARLES ST.
JUNE 7, 1951	GLOSSOP ST., FROM MOONASQUATUCKET AVE. TO FRUIT HILL AVE.
JUNE 7, 1951	DAKWOOD AVE., FROM CHALKSTONE AVE. TO FREEDON ROAD
JULY 5, 1951	RAPHAEL AVE., FROM CHARLES ST. TO ITS EASTERLY TERMINATION.
JULY 5, 1951	CHESHIRE ST., FROM SALINA ST. TO SUSSEX ST.
JULY 5, 1951	JOY ST., FROM RIVER AVE. TO ITS WESTERLY TERMINATION.
AUG. 9, 1951	KINFIELD ST., FROM HARTFORD AVE. TO BARBARA ST.
AUG. 9, 1951	FAIR ST., FROM SEAMENS ST. TO PHEBE ST.
SEPT. 6, 1951	LEO AVE., FROM CHARLES ST. TO LANGDON ST.
SEPT. 20, 1951	EDWARD ST., FROM NORTHUP AVE. TO ITS NORTHERLY TERMINATION

OCT. 4, 1951 BRINKLEY ST., FROM CHALKSTONE AVE. TO ITS SOUTHERLY TERMINATION.
 OCT. 4, 1951 SAMOSET AVE., FROM CHALKSTONE AVE. TO ITS NORTHERLY TERMINATION.
 NOV. 1, 1951 STEELE ST., FROM WOODDINE ST. TO LANCASTER ST.
 NOV. 15, 1951 WISE COURT, FROM WILLOW ST. TO ITS TERMINATION.
 DEC. 6, 1951 BALTIMORE ST., FROM THE SECOND ANGLE EAST OF MANTON AVE. TO FERRIS ST.
 DEC. 20, 1951 STANTON ST., FROM UNION AVE. TO MURRAY ST.
 JAN. 3, 1952 SWIFT ST., FROM JOB ST. TO ITS TERMINATION.
 JAN. 3, 1952 FUNSTON AVE. FROM CLOVE ST. TO GENTIAN AVE.
 JAN. 17, 1952 ERIE ST., FROM SHARON ST. TO ROME AVE.
 FEB. 7, 1952 EDENDALE AVE., FROM FRUIT HILL AVE. TO ITS TERMINATION.
 FEB. 7, 1952 VICTOR EMANUEL AVE., FROM LANGDON ST. STANHOPE ST.
 FEB. 7, 1952 STANSBURY ST., FROM GRAND BROADWAY TO ITS EASTERLY TERMINATION.
 FEB. 21, 1952 WAITE ST., FROM ADMIRAL ST. TO GENERAL ST.
 MARCH 6, 1952 MINTO ST., FROM BOLTON AVE. TO FARM ST.
 APRIL 3, 1952 TRINITY PARKWAY, FROM CATHEDRAL AVE. TO THE SOUTHERLY TERMINATION OF TRINITY PARKWAY
 MAY 15, 1952 ANGELO AVE., FROM CHARLES ST. TO LEO AVE.
 JUNE 5, 1952 COLUMBUS ST., FROM DOUGLAS AVE. TO GLASGOW ST.
 AUG. 7, 1952 FAIRMOUNT AVE. FROM MOUNT PLEASANT AVE. TO YALE AVE.
 AUG. 7, 1952 AMITY ST., FROM ACADEMY AVE. TO PEMBERTON ST.
 AUG. 7, 1952 GROVER ST., FROM MERINO ST. TO LONGO ST.
 AUG. 7, 1952 STOCKTON ST., FROM DART ST. TO ITS EASTERLY TERMINATION.
 AUG. 7, 1952 ENFIELD AVE., FROM NAPLES AVE. TO ISABELLA AVE.
 AUG. 7, 1952 BERLIN ST., FROM CHALKSTONE AVE. TO PLEASANT VALLEY PK.
 AUG. 7, 1952 GLOUCESTER ST., FROM ADMIRAL ST. TO SUNBURY ST.
 AUG. 7, 1952 PORTER ST., FROM ERNEST STREET TO EDDY ST.
 SEPT. 4, 1952 AURORA ST., FROM HAROLD ST. TO RIVER AVE.
 SEPT. 18, 1952 VAUGHN ST., FROM NORTHUP AVE. TO ITS TERMINATION.

THE FOLLOWING IS A LIST OF UNIMPROVED STREETS FOR WHICH PETITIONS HAVE BEEN MADE THROUGH THE OFFICES OF THE ENGINEERING DIVISION AND THE DIRECTOR OF PUBLIC WORKS TO THE CITY COUNCIL AND REFERRED TO THE PUBLIC WORKS COMMITTEE:

PETITIONED FOR CURBING AND GRADING

<u>DATE</u>	<u>STREET AND LOCATION</u>
JULY 10, 1947	GALLILEO AVE., FROM CHALKSTONE AVE. NORTHERLY.
JULY 10, 1947	TOURO ST., FROM BRANCH AVE. TO SILVER SPRING ST.
JULY 10, 1947	NAHANT ST., FROM OPPER ST. TO RUSSO ST.
AUG. 14, 1947	ALEPPO ST., FROM WEST END OF RECEIVED PORTION TO BOSWORTH ST.
OCT. 7, 1948	WELL ST., FROM POWER ST. TO WILLIAMS ST.
OCT. 21, 1948	SHERWOOD ST., FROM DOUGLAS AVE. TO CORNWALL ST.
NOV. 18, 1948	WALTON ST., FROM ACADEMY AVE. TO ENFIELD AVE.
MAY 5, 1949	BINGHAM ST., FROM BRANCH AVE. TO CAXTON ST.
MAY 5, 1949	CARDER ST., FROM CAXTON ST. TO SOUTHERLY TERMINATION.
MAY 5, 1949	CAXTON ST., FROM VEAZIE ST. TO NORTHERLY TERMINATION.
JUNE 2, 1949	FAIRFIELD AVE., FROM PORTION NOW RECEIVED TO RICHLAND AVE.
JULY 7, 1949	GREELEY ST., FROM HAGAN ST. TO AVENTINE AVE.
JULY 7, 1949	ISABELLA AVE., FROM ENFIELD AVE. TO SHARON ST.
AUG. 4, 1949	SUNBURY ST., FROM CUMBERLAND ST. TO RIVER AVE.
SEPT. 15, 1949	SECOND ST. FROM HIGHLAND AVE. TO CRESTON WAY.
SEPT. 15, 1949	BALMORAL AVE., FROM RIVER AVE. TO LASALLE DRIVE.
DEC. 1, 1949	NORTH AVE., FROM HOPE ST. TO BLACKSTONE BLVD.
DEC. 1, 1949	GROTTO AVE., FROM UPTON AVE. TO NORTHERLY TERMINATION.
JAN. 19, 1950	PRUE ST., FROM SACKETT ST. TO SOUTHERLY TERMINATION.
JULY 6, 1950	LONGFELLOW TERRACE, FROM LONGFELLOW ST. TO ROGER WILLIAMS AVE.
JULY 6, 1950	MOUNTAIN ST., FROM BOND ST. TO BRADFORD ST.

JULY 6, 1950 TIFFANY ST., FROM CHALKSTONE AVE. TO PLEASANT VALLEY PARKWAY.
 JULY 6, 1950 COMET ST., FROM SWISS ST. TO GESLER ST.
 JULY 6, 1950 WISE COURT, FROM WILLOW ST. TO HUDSON ST.
 AUG. 10, 1950 DERRY ST., FROM GEOFFREY ST. TO OREGON ST.
 SEPT. 7, 1950 ELIZA ST., FROM HARTFORD AVE. TO KILLINGLY ST.
 SEPT. 7, 1950 LIEGE ST., FROM DOUGLAS AVE. TO TERMINATION.
 SEPT. 21, 1950 BADGER ROAD, FROM SHARON ST. TO HILLVIEW ST.
 OCT. 19, 1950 ALEPPO ST., FROM PELHAM ST. TO ITS TERMINATION.
 OCT. 19, 1950 SINCLAIR AVE., FROM PARKMAN ST. TO PONTIAC AVE.
 DEC. 7, 1950 SIBYL ST., FROM MERCY ST. TO MURRAY ST.
 DEC. 21, 1950 PORTER ST., FROM ERNEST ST. TO EDDY ST.
 JAN. 18, 1951 CHACE DRIVE, FROM CHACE AVE. TO ITS TERMINATION.
 JAN. 18, 1951 CHACE AVE., FROM TOP ST. TO GREATON DRIVE.
 JAN. 18, 1951 LABAN ST., FROM LAUREL HILL AVE. TO PLAINFIELD ST.
 JAN. 18, 1951 PAOLINO ST., FROM KILLINGLY ST. TO CITY LINE.
 JAN. 18, 1951 SCHOOL ST., FROM VALLEY ST. TO HARRIS AVE.
 JAN. 18, 1951 EVELYN ST., FROM UNION AVE. TO PRUDENCE AVE.
 APR. 5, 1951 WOODSIDE ROAD, FROM BRUSH HILL ROAD TO RUDY ST.
 APR. 5, 1951 MANHATTAN ST., FROM LANGDON ST. TO STANHOPE ST.
 APR. 19, 1951 MESSENGER ST., FROM ATWELLS AVE. TO SPRUCE ST.
 MAY 3, 1951 BENEDICT ST., FROM CRANSTON ST. TO HUNTINGTON AVE.
 JUNE 7, 1951 RAPHAEL AVE., FROM LANGDON ST. TO CHARLES ST.
 JUNE 7, 1951 GLASSOP ST., FROM WOONASQUATUCKET AVE. TO FRUIT HILL AVE.
 JUNE 7, 1951 OAKWOOD AVE., FROM CHALKSTONE AVE. TO FREEDOM ROAD.
 JULY 5, 1951 RAPHAEL AVE., FROM CHARLES ST. TO ITS EASTERLY TERMINATION.
 JULY 5, 1951 CHESHIRE ST., FROM SALINA ST. TO SUSSEX ST.
 JULY 5, 1951 JOY ST., FROM RIVER AVE. TO ITS WESTERLY TERMINATION.
 AUG. 9, 1951 KINFIELD ST., FROM HARTFORD AVE. TO BARBARA ST.
 AUG. 9, 1951 FAIR ST., FROM SEAMENS ST. TO PHEGE ST.
 SEPT. 6, 1951 LEO AVE., FROM CHARLES ST. TO LANGDON ST.
 SEPT. 20, 1951 EDWARD ST., FROM NORTHUP AVE. TO ITS NORTHERLY TERMINATION.
 OCT. 4, 1951 BRINKLEY ST., FROM CHALKSTONE AVENUE TO ITS SOUTHERLY TERMINATION.
 OCT. 4, 1951 SAMOSET AVE., FROM CHALKSTONE AVE. TO ITS NORTHERLY TERMINATION.
 NOV. 15, 1951 WISE COURT, FROM WILLOW ST. TO ITS TERMINATION.
 DEC. 6, 1951 BALTIMORE ST., FROM THE SECOND ANGLE EAST OF MANTON AVE. TO FERRIS ST.
 DEC. 6, 1951 ETNA ST., FROM CLEVELAND ST. TO HARTFORD AVE.
 DEC. 20, 1951 STANTON ST., FROM UNION AVE. TO MURRAY ST.
 JAN. 3, 1952 SWIFT ST., FROM JOB ST. TO ITS TERMINATION.
 JAN. 3, 1952 FUNSTON AVE. FROM CLOVE ST. TO GENTIAN AVE.
 JAN. 17, 1952 ERIE ST., FROM SHARON ST. TO ROME AVE.
 FEB. 7, 1952 EDENDALE AVE., FROM FRUIT HILL AVE. TO ITS TERMINATION
 FEB. 7, 1952 HILLCREST AVE., FROM CHALKSTONE AVE. 60 FEET SOUTH OF FREEDOM ROAD.
 FEB. 7, 1952 VICTOR EMANUEL AVE., FROM LANGDON ST. STANHOPE ST.
 FEB. 7, 1952 STANSBURY ST., FROM GRAND BROADWAY TO ITS EASTERLY TERMINATION
 FEB. 21, 1952 WAITE ST., FROM ADMIRAL ST. TO GENERAL ST.
 APRIL 3, 1952 TRINITY PARKWAY FROM CATHEDRAL AVE. TO THE SOUTHERLY TERMINATION OF TRINITY
 PARKWAY
 MAY 15, 1952 ANGELO AVE. FROM CHARLES ST. TO LEO AVE.
 JUNE 5, 1952 COLUMBUS ST., FROM DOUGLAS AVE. TO GLASGOW ST.
 AUG. 7, 1952 FAIRMOUNT AVE., FROM MOUNT PLEASANT AVE. TO YALE AVE.
 AUG. 7, 1952 AMITY ST., FROM ACADEMY AVE. TO PEMBERTON ST.
 AUG. 7, 1952 GROVER ST., FROM MERING ST. TO LONGO ST.
 AUG. 7, 1952 STOCKTON ST., FROM DART ST. TO ITS EASTERLY TERMINATION.
 AUG. 7, 1952 ENFIELD AVE., FROM NAPLES AVE. TO ISABELLA AVE.
 AUG. 7, 1952 BERLIN ST., FROM CHALKSTONE AVE. TO PLEASANT VALLEY PK.
 AUG. 7, 1952 GLOUCESTER ST., FROM ADMIRAL ST. TO SUNBURY ST.
 AUG. 7, 1952 PORTER ST., FROM ERNEST STREET TO EDDY ST.
 SEPT. 4, 1952 AURORA ST., FROM HAROLD ST. TO RIVER AVE.
 SEPT. 18, 1952 VAUGHN ST., FROM NORTHUP AVE. TO ITS TERMINATION.

SUMMARY TO OCTOBER 1, 1952

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

<u>TYPES OF PAVEMENT</u>	<u>LENGTHS</u>	<u>AREA</u>
	<u>MILES</u>	<u>SQ. YDS.</u>
REINFORCED CONCRETE	1.05	36,504.6
BITUMINOUS CONCRETE (CURBED)	63.48	1,209,400.4
BITUMINOUS CONCRETE (NOT CURBED)	3.37	57,221.3
SHEET ASPHALT (CURBED)	61.48	1,450,950.4
SHEET ASPHALT (NOT CURBED)	0.30	4,195.0
BITUMINOUS MACADAM (CURBED)	199.76	3,092,900.8
BITUMINOUS MACADAM (NOT CURBED)	4.25	74,249.0
ASPHALT BLOCKS	0.14	1,555.4
BRICK	0.02	197.2
COBBLE	0.49	4,707.5
GRANITE BLOCKS	6.19	129,472.2
WATERBOUND MACADAM (CURBED)	6.59	100,233.0
WATERBOUND MACADAM (NOT CURBED)	2.06	30,017.0
	<u>349.18</u>	<u>6,191,603.8</u>
RECEIVED (NOT IMPROVED)	<u>3.63</u>	
TOTAL.....	<u>352.81</u>	

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

STREETS PAVED WITH NEW MATERIAL	86,248.0 LINEAR FEET
SHEET ASPHALT PAVEMENT LAID	113,732.0 SQUARE YARDS
BITUMINOUS CONCRETE PAVEMENT	151,178.0 SQUARE YARDS
BITUMINOUS MACADAM PAVEMENT LAID	55,584.0 SQUARE YARDS

SEWER SECTION

THE MAIN DUTIES OF THIS SECTION CONSIST OF THE PREPARATION OF STUDIES, PLANS, SPECIFICATIONS AND ESTIMATES OF PROPOSED SANITARY AND STORM SEWERS, AND THE FIELD ENGINEERING AND INSPECTION WORK OF ALL SEWER PROJECTS IN PROGRESS INCLUDING THE ESTIMATES TO CONTRACTORS FOR PAYMENT.

RECORD PLANS WERE MADE FOR FUTURE REFERENCE OF CLOTH MOUNTED PAPER AND ALL FIELD BOOKS ARE FILED IN FIRE-PROOF CABINETS.

PRELIMINARY PLANS FOR SEWER INSTALLATIONS WERE SUBMITTED TO THE STATE DEPARTMENT OF PUBLIC WORKS FOR INCORPORATION IN THEIR CONTRACT PLANS FOR THE RECONSTRUCTION OF THE FOLLOWING STREETS:

HARRIS AVE. EXTENSION TO OLNEYVILLE VIADUCT, EAGLE STREET, ELMGROVE AVE., AND THOMAS STREET.

THE CONTRACT WORK FOR THE PERSHING SQUARE PROJECT WAS COMPLETED BY THE STATE DEPARTMENT OF PUBLIC WORKS, WHICH INCLUDES RECONSTRUCTION OF PARTS OF SMITH ST., FRANCIS ST., GASPEE ST., AND NEW BRIDGE, STILLMAN ST., AND A PARKING AREA, WAS PERIODICALLY INSPECTED BY THIS DEPARTMENT IN REGARD TO SEWER AND BRIDGE CONSTRUCTION. ENGINEERING BY KNAPPEN, TIPPETTS, ABBETT ENGINEERING CO.; CAMPANELLA AND CARDI CONSTRUCTION CO., THE CONTRACTOR.

FINAL RECORD PLANS OF SEWERS THAT WERE BUILT WERE MADE ON MOUNTED PAPER AND OLD RECORD PLANS WERE REPAIRED.

FIELD MEASUREMENTS WERE MADE IN SEWERS PERIODICALLY, IN ORDER TO COMPUTE THE SEWAGE FLOW FROM NORTH PROVIDENCE.

A CONTRACT FOR SEWERS TO BE BUILT IN FIFTEEN STREETS BY THE CAMPANELLA AND CARDI CONSTRUCTION CO. DATED MAY 24, 1951 WAS COMPLETED FEBRUARY 7, 1952. THE FIFTEEN STREETS INVOLVED ARE AS FOLLOWS, WITH THE DATES OF COMPLETION NOTED. THE TOTAL CONTRACT PRICE EQUALED \$215,170.68.

COMPLETION

DATES

FEBR. 7, 1952 BERLIN ST., FROM NEAR CHALKSTONE AVE. TO PLEASANT VALLEY PARKWAY
OCT. 4, 1951 COLUMBUS ST., FROM DOUGLAS AVE. TO GLASGOW ST, AND IN
GLASGOW ST., FROM COLUMBUS ST. TO MESSINA ST.
SEPT. 1, 1951 CUMBERLAND ST., FROM NEAR SANDRINGHAM AVE. TO ADMIRAL ST.
OCT. 26, 1951 DEDHAM AVE., FROM KILLINGLY ST. TO BURCHARD ST.
SEPT. 14, 1951 FARM ST., FROM NEAR MT. PLEASANT AVE. TO LAWN ST.
AUG. 4, 1951 FUNSTON AVE., FROM APPROXIMATELY 600 FT. EAST OF GENTIAN AVE. TO GENTIAN AVE.
JAN. 3, 1952 MAGELLAN ST., FROM NEAR BLACKSTONE BLVD. TO GROTTO AVE.
JULY 14, 1951 MINTO ST., FROM NEAR METROPOLITAN ROAD TO WHITFORD AVE.
JAN. 14, 1952 PAOLINA ST., FROM NEAR CITY LINE TO KILLINGLY ST.
DEC. 6, 1951 ROYAL AVE., FROM ADMIRAL ST. TO GENTIAN AVE.
DEC. 18, 1951 STELLA ST., FROM NEAR BARBARA ST. TO GRIMWOOD ST., AND IN
GRIMWOOD ST., FROM STELLA ST. TO OPHELIA ST.
DEC. 15, 1951 WANSKUCK AVE., FROM ADMIRAL ST. TO GENTIAN AVE.
OCT. 6, 1951 WINONA ST., FROM ADMIRAL ST. TO GENTIAN AVE.

A CONTRACT FOR SEWERS TO BE BUILT IN NINETEEN STREETS BY THE MACDONALD CONSTRUCTION CO., DATED JUNE 12, 1950 WAS COMPLETED NOV. 2, 1951. THE NINETEEN STREETS INVOLVED ARE AS FOLLOWS, WITH THE DATES OF COMPLETION NOTED. THE TOTAL CONTRACT PRICE EQUALED \$156,941.20.

DATES

COMPLETED

JULY 20, 1950 WINTHROP AVE., FROM CANONCHET ST. TO METROPOLITAN ROAD.
JULY 14, 1950 STANTON ST., FROM NEAR UNION AVE. TO PRUDENCE AVE.
NOV. 4, 1950 BOLTON AVE., FROM HOME AVE. TO KIMBALL ST.
SEPT. 29, 1950 BURNS ST., FROM HAVANA ST. TO DOUGLAS AVE.
JUNE 18, 1951 METCALF ST. FROM NEAR GRAFTON ST. TO SILVER SPRING ST.
DEC. 1, 1950 DUXBURY ST., FROM NEAR PLAINFIELD ST. TO KILLINGLY ST.
SEPT. 30, 1950 MIDDLETON ST., FROM NEAR BARBARA ST. TO HARTFORD AVE.
SEPT. 14, 1950 FARM ST., FROM LAWN ST. TO WEBB ST.
SEPT. 14, 1950 LAWN ST., FROM BOLTON AVE. TO FARM ST.
NOV. 2, 1951 MOUNT AVE., FROM NEAR BLACKSTONE BLVD. TO GROTTO AVE.; AND IN
GROTTO AVE., FROM UPTON AVE. TO ITS NORTHERLY TERMINATION.
OCT. 27, 1950 FORSYTH ST., FROM NEAR COGGESHALL ST. TO MOWRY ST.
AUG. 4, 1951 SMART ST., FROM 320 FT. EAST OF CHARLES ST. TO CHARLES ST.
JULY 20, 1951 SWIFT ST., FROM 280 FT. WEST OF JOB ST. TO JOB ST.
APR. 27, 1951 MURRAY ST., FROM NEAR PLAINFIELD ST. TO SIDYL ST.
OCT. 25, 1950 MATSON AVE., FROM NEAR DRESSER ST. TO HARTFORD AVE.
NOV. 15, 1950 OCTAVIA ST., FROM ITS WESTERLY TERMINATION TO SISSON ST.
APR. 17, 1951 BRINKLEY ST., FROM ITS SOUTHERLY TERMINATION TO CHALKSTONE AVE.
MAY 9, 1951 HUBER AVE., FROM NEAR WESTCOTT AVE. TO FRUIT HILL AVE.

A CONTRACT FOR SEWERS TO BE BUILT IN EIGHTEEN STREETS BY THE CAPALDI BROS. CONSTRUCTION CO., DATED APRIL 21, 1952, IS NOW IN CONSTRUCTION. THE EIGHTEEN STREETS INVOLVED ARE AS FOLLOWS, WITH THE DATES OF COMPLETION NOTED. ESTIMATED VALUE OF WORK DONE EQUALS \$137,316.95. TOTAL CONTRACT IN THE AMOUNT OF \$184,219.00

DATES

COMPLETED

INCOMPLETE BADGER ROAD, FROM NEAR HILLVIEW AVENUE TO SHARON STREET.
AUG. 13, 1952 CORNWALL STREET, FROM SHERWOOD STREET TO VANDEWATER STREET.
INCOMPLETE ELIZA STREET, FROM KILLINGLY STREET TO HARTFORD AVENUE.

JULY 19, 1952 FREESE STREET, FROM NEAR FARM STREET TO BOLTON AVENUE.
 INCOMPLETE LIEGE STREET, FROM ITS WESTERLY TERMINATION TO PRESENT SEWER IN LIEGE STREET.
 INCOMPLETE MOUNTAIN STREET, FROM NEAR BRADFORD STREET TO BOND STREET.
 SEPT. 20, 1952 RAPHAEL AVENUE, FROM ITS EASTERLY TERMINATION TO CHARLES STREET.
 AUG. 13, 1952 SHERWOOD STREET, FROM NEAR DOUGLAS AVENUE TO CORNWALL STREET.
 JUNE 3, 1952 SINCLAIR AVENUE, FROM NEAR PARKMAN STREET TO PRESENT SEWER IN SINCLAIR AVENUE.
 AUG. 23, 1952 STONELAW AVENUE, FROM NEAR RIVER AVENUE TO THE END OF PRESENT SEWER
 APPROXIMATELY 500 FEET EAST OF SHARON STREET.
 JUNE 25, 1952 WADSWORTH STREET, FROM NEAR SORRENTO STREET TO HUNTINGTON AVENUE.
 JUNE 20, 1952 WAKEFIELD STREET, FROM NEAR WESTERLY AVENUE TO BRISTOL AVENUE.
 AUG. 5, 1952 WALTON STREET, FROM ENFIELD AVENUE TO MERIDIAN STREET.
 INCOMPLETE WESTCOTT AVENUE, FROM 250 FEET WEST OF FRUIT HILL AVENUE TO FRUIT HILL AVENUE.
 SEPT. 27, 1952 WEST PARK STREET, FROM 285 FEET NORTH OF CALVERLY STREET TO CALVERLY STREET.
 JUNE 27, 1952 WHITFORD AVENUE, FROM LAWN STREET TO HOME AVENUE.
 INCOMPLETE WISE COURT, FROM ITS WESTERLY TERMINATION TO WILLOW STREET.
 JUNE 25, 1952 WOODSIDE ROAD, FROM RUDY AVENUE TO PRUSH HILL ROAD.

THE SEWER MAINTENANCE DIVISION OF THE PUBLIC WORKS DEPT. BUILT THE FOLLOWING SEWERS:

DATES COMPLETED

NOV. 8, 1951 FILLMORE ST., FROM NEAR ADMIRAL ST. TO OREGON ST.
 FEBR. 15, 1952 PROSPER ST., FROM LANGDON ST. TO ITS TERMINATION
 (BUILT ONLY FROM NEAR STANHOPE ST. TO LANGDON ST.)

A SEWER WAS COMPLETED MAY 7, 1950 IN ETNA ST. FROM CLEVELAND ST. TO HARTFORD AVE.
 FOR THE PROVIDENCE HOUSING AUTHORITY BY CAPALDI BROS. CONSTRUCTION CO., AND THE REGULAR
 DEPARTMENTAL ENGINEERING AND INSPECTION WAS FURNISHED. THE QUANTITIES FOR PAYMENT TO
 THE CONTRACTOR WERE SUBMITTED TO THE PROVIDENCE HOUSING AUTHORITY.

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, 1952, EXCLUSIVE OF THOSE CONTRACTED FOR:

CITY COUNCIL RESO-
 LUTION AND YEAR

LOCATION

229	1940	BUCKLIN ST., FROM NEAR POTTERS AVE. TO GREENWICH STREET.
430	1940	NIANTIC AVE., FROM NEAR CRANSTON ST. TO AKERMAN STREET.
257	1951	NORTH AVE., FROM NEAR HOPE ST. TO BLACKSTONE BLVD.
258	1951	PORTER ST., FROM EDDY ST. TO ERNEST STREET.
261	1951	SIBYL ST., FROM NEAR MERCY ST. TO MURRAY STREET.
275	1951	TIFFANY ST., FROM NEAR CHALKSTONE AVE. TO PLEASANT VALLEY PARKWAY.
276	1951	TOWNER ST., FROM NEAR CLARKE ST. TO PAVILION AVENUE.
277	1951	TRINIDAD ST., FROM NEAR HILLVIEW AVE. TO SHARON STREET.
293	1951	WHITE ST., FROM POWELL ST. TO COLLYER ST.
726	1951	AURORA ST. FROM BLUFF ST. TO RIVER AVE.
46	1952	EDWARD ST. FROM ITS NORTHERLY TERMINATION TO NORTHUP AVE.
47	1952	EVELYN ST. FROM NEAR UNION AVE. TO PROVIDENCE AVE.
48	1952	FAIRFIELD AVE. FROM 420 FT. NO. OF RICHLAND ST. TO RICHLAND ST. AND IN RICHLAND ST. FROM FAIRFIELD AVE. TO EDGEMERE AVE.
49	1952	GALLILEO AVE. FROM NEAR CHALKSTONE AVE. TO ITS NORTHERLY TERMINATION AND ACROSS CITY OWNED LAND BEING USED FOR PARK AND SCHOOL RECREATION PURPOSES TO METROPOLITAN RD.
50	1952	GLOSSOP ST. FROM NEAR FRUIT HILL AVE. TO WOONASQUATUCKET AVE. AND IN WOONASQUATUCKET AVE. FROM GLOSSOP ST. SOUTHERLY TO END OF PRESENT SEWER IN WOONASQUATUCKET AVE.

51	1952	JOY ST. FROM ITS WESTERLY TERMINATION TO RIVER AVE.
52	1952	KINFIELD ST. FROM NEAR BARBARA ST. TO HARTFORD AVE.
53	1952	OAKWOOD AVE. FROM NEAR FREEDOM RD. TO CHALKSTONE AVE.
54	1952	SAMOSSET AVE. FROM NEAR CHALKSTONE AVE. TO ITS NORTHERLY TERMINATION AND ACROSS CITY OWNED LAND BEING USED FOR SCHOOL RECREATIONAL PURPOSES TO METROPOLITAN RD.
55	1952	VICTORIA ST. FROM NEAR CHALKSTONE AVE. TO ITS NORTHERLY TERMINATION AND ACROSS CITY OWNED LAND BEING USED FOR SCHOOL RECREATIONAL PURPOSES TO METROPOLITAN RD.
479	1952	ALDRICH ST. FROM BROAD ST. TO EDDY ST.

LIST NO. 2

SEWERS PETITIONED FOR AND REFERRED TO THE PUBLIC WORKS COMMITTEE FROM JANUARY 1941 TO SEPTEMBER 30, 1952 AND NO ACTION TAKEN:

<u>DATE FILED</u>	<u>LOCATION</u>
FEB. 20, 1941	LESTER ST., FROM NEAR D ST. TO DODGE STREET.
JULY 10, 1941	HENRIETTA ST., FROM NEAR DOUGLAS AVE. TO WILD ST., AND FROM NEAR HOY ST. TO VEAZIE STREET.
SEPT. 4, 1941	MAGNOLIA ST., FROM ITS EASTERLY TERMINATION TO TROY STREET.
SEPT. 18, 1941)	WINDMILL ST., FROM CITY LINE TO PRESENT SEWER IN WINDMILL STREET
SEPT. 18, 1947)	
AUG. 5, 1943	FLORENCE ST., FROM APPROXIMATELY 260 FT. NORTH OF AMHERST ST. TO AMHERST ST.
SEPT. 6, 1945	DIPIPPA ST., FROM RAGOSTA ST. TO KILLINGLY AVENUE.
JULY 2, 1946	MURPHY ST., FROM NEAR ATWELLS AVE. TO CEDAR STREET.
JULY 2, 1946	PENROSE AVE., FROM NEAR BLACKSTONE BLVD. TO GROTTA AVENUE.
JULY 10, 1947	CARNAC ST., FROM GILLEN ST. TO MARIETTA STREET.
JULY 10, 1947	SWEETBRIAR ST., FROM MALBONE ST. TO OAKLAND AVENUE.
SEPT. 10, 1947	SWAN ST., FROM EDDY ST. TO POE STREET.
SEPT. 18, 1947	OWEN ST., FROM MANTON AVE. TO KING ST. INCLUDING RIGHT-OF-WAY TO BE OBTAINED FOR 90 FEET LENGTH OF VACANT LOT ON KING STREET.
NOV. 20, 1947	GREELEY ST., FROM ALASKA ST. TO HAGAN STREET.
JAN. 15, 1948	BRADLEY ST., FROM RIVER AVE., TO LUCILE STREET.
JAN. 2, 1947	POWELL ST., FROM CITY LINE TO MATILDA STREET, AND IN COLLYER ST. FROM WHITE ST. TO MATILDA STREET.
SEPT. 2, 1948	ALLSTON ST., FROM HILL ST. TO HAROLD STREET.
OCT. 7, 1948	WELL ST., FROM POWER ST. TO WILLIAMS STREET.
MAY 5, 1949	BINGHAM ST., FROM BRANCH AVE. TO CAXTON STREET.
MAY 5, 1949	CARDER ST., FROM CAXTON ST. TO ITS NORTHERLY TERMINATION.
MAY 5, 1949	CAXTON ST., FROM VEAZIE ST. TO ITS NORTHERLY TERMINATION.
JULY 7, 1949	ISABELLA AVE., FROM ENFIELD AVE. TO SHARON STREET.
JULY 7, 1949	GREELEY ST., FROM HAGAN ST. TO AVENTINE STREET.
SEPT. 5, 1949	SECOND ST., FROM HIGHLAND AVE. TO CRESTON WAY.
OCT. 6, 1949	BARBARA ST., FROM CELIA ST. TO KING PHILIP STREET.
NOV. 3, 1949	PALM ST., FROM PECK ST. TO WILLOW STREET.
DEC. 15, 1949	BARBARA ST., FROM GLENBRIDGE AVE. TO PONAGANSETT AVENUE.
DEC. 15, 1949	BARBARA ST., FROM MIDDLETON ST. TO BOWLETT STREET.
FEB. 2, 1950	EDNA ST., FROM PLAINFIELD ST. TO HARTFORD AVENUE.
FEB. 16, 1950	ROWLEY ST., FROM BATTERSON ST. TO SICILY STREET.
JUNE 1, 1950	CUTLER ST., FROM NEWARK ST. TO ATWELLS AVENUE.
AUG. 10, 1950	DERRY ST., FROM GEOFFREY'S CT. TO OREGON ST.
OCT. 19, 1950	CARLETON ST., FROM DOVER ST. TO CHALKSTONE AVENUE.
NOV. 2, 1950	WHITE ST., FROM NORTH MAIN ST. TO NASHUA STREET.
FEB. 1, 1951	EVELYN ST., FROM UNION AVE. TO PRUDENCE AVENUE.
APR. 5, 1951	MANHATTEN ST., FROM LANGDON ST. TO STANHOPE STREET.
APR. 5, 1951	EDGEWORTH AVE., FROM ITS WESTERLY TERMINATION TO ARGOL STREET.
APR. 5, 1951	BRUSH HILL ROAD, FROM ADA ST. TO CHALKSTONE AVENUE.
APR. 5, 1951	EDGEWOOD BLVD., FROM ROGER WILLIAMS PARK TO ROGER WILLIAMS PARK.
APR. 19, 1951	MESSANGER ST., FROM ATWELLS AVE. TO SPRUCE STREET.

MAY 3, 1951 BENEDICT ST., FROM CRANSTON ST. TO HUNTINGTON AVENUE.
MAY 17, 1951 DRILL ST., FROM SHARON ST. TO HILLVIEW STREET.
JULY 5, 1951 KILLINGLY ST., FROM HARTFORD AVE. TO CITY LINE.
AUG. 9, 1951 FAIR ST., FROM SEAMANS ST. TO PHEBE STREET.
DEC. 20, 1951 STANTON ST. FROM UNION AVE. TO MURRAY ST.
JAN. 3, 1952 BLACKSTONE BLVD.
JAN. 17, 1952 ERIE ST. FROM SHARON ST. TO ROME AVE.
JAN. 17, 1952 WALLER ST. FROM CANONCHET ST. TO METROPOLITAN RD.
FEBR. 7, 1952 FLORA ST. FROM ASHTON ST. TO NORTHUP AVE.
FEBR. 7, 1952 VICTOR EMANUEL ST. FROM STANHOPE ST. TO LANGDON ST.
FEBR. 21, 1952 WAITE ST. FROM ADMIRAL ST. TO GENERAL ST.
MARCH 6, 1952 MINTO ST. FROM BOLTON AVE. TO FARM ST.
MAY 15, 1952 ANGELO AVE. FROM CITY LINE AT NORTH PROVIDENCE TO LEO AVE.
JULY 10, 1952 DIXON ST. FROM STAMFORD ST. TO ITS TERMINATION.
AUG. 7, 1952 GLOUCESTER ST. FROM ADMIRAL ST. TO SUNBURY ST.
AUG. 7, 1952 ENFIELD AVE. FROM NAPLES AVE. TO ISABELLA AVE.

SEWER ASSESSMENTS:

SEWER ASSESSMENTS AS PROVIDED BY AUTHORITY OF CHAPTER 870 OF THE PUBLIC LAWS OF THE STATE OF RHODE ISLAND OF 1901 "SHALL BE EXCLUSIVELY USED FOR THE PAYMENT OF THE ANNUAL APPROPRIATION FOR SINKING FUNDS FOR SEWER BONDS." THE COMPUTING OF THESE ASSESSMENTS IS DONE BY THE SEWER SECTION.

SEWER ASSESSMENTS COLLECTED:

THE AMOUNT PAID TO THE TAX COLLECTOR FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1952 EQUALED \$44,854.33.

SEWER SYSTEM STATISTICS:

IN ORDER TO MAKE COMPLETE THE PROVIDENCE SEWER SYSTEM STATISTICS UP TO THE END OF THE FISCAL YEAR OF SEPTEMBER 30, 1952 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, WOODNASQUATUCKET, MOSHASSUCK AND SEEKONK RIVERS.

COMBINED SEWERS, DISCHARGING BOTH CRUDE SEWAGE AND STORM WATER INTO THE RIVERS, WERE CONSTRUCTED IN THESE AREAS BETWEEN THE YEARS 1871 AND 1890 TO A TOTAL LENGTH OF 62.7 MILES.

IN 1890 A NEW METHOD OF HANDLING SEWAGE FLOW WAS DEVISED AND WAS CALLED THE IMPROVED SEWER SYSTEM. FROM 1890 TO 1904, 28.1511 MILES OF THIS SYSTEM WAS CONSTRUCTED WITH SIZES VARYING FROM 6 IN. TO 10 IN. IN DIAMETER. THIS SYSTEM INCLUDED THE INTERCEPTING SEWERS, DESIGNED FOR THE COLLECTION OF SEWAGE FLOW FROM THE OLDER SEWERS WHICH HERETOFORE DISCHARGED INTO THE RIVERS WHICH HELPED TOWARD THE ELIMINATION OF SEWAGE POLLUTION OF RIVER AND HARBOR WATERS. DUE TO LATER REVISIONS IN CONSTRUCTION THE LENGTH OF THE IMPROVED SEWER SYSTEM EQUALED AS OF SEPTEMBER 30, 1952, 38.1181 MILES.

IN 1872 THE FIRST STORM SEWER CONSTRUCTION WAS STARTED AND AS OF SEPTEMBER 30, 1952 A TOTAL OF 83.8959 MILES OF SEWERS FOR STORM WATER ONLY, HAVE BEEN CONSTRUCTED AND DISCHARGED INTO THE NEAREST AVAILABLE POND OR STREAM.

THE TOTAL LENGTH OF THE SO-CALLED REGULAR COMBINED SEWERS AS OF SEPTEMBER 30, 1952 EQUALS 323.7018 MILES.

THE TOTAL LENGTH OF ALL TYPES AND SIZES OF SEWERS MAINTAINED BY THE SEWER DIVISION OF THE PUBLIC WORKS DEPARTMENT AS OF SEPTEMBER 30, 1952 EQUALS 445.7158. INCLUDED IN THIS MILEAGE ARE APPROXIMATELY 19,300 MANHOLES. ALSO MAINTAINED BY THIS DIVISION, BY PERIODICAL CLEANING AND REPAIRING WHEN NECESSARY, ARE APPROXIMATELY 4600 INLETS AND 11,200 BASINS FOR COLLECTING SURFACE WATER AND TRAPPING DEBRIS BEFORE ENTRANCE INTO THE SEWERS.

THE NORMAL OR DRY WEATHER FLOW OF SEWAGE IS COLLECTED AND CONVEYED TO THE SEWAGE TREATMENT PLANT AT FIELDS POINT. TIDE GATES ARE INSTALLED AT RIVER OUTFALLS TO PREVENT TIDEWATER OR RIVER WATER FROM ENTERING THE SEWERS.

THE SEWAGE FROM THE WASHINGTON PARK AND FIELDS POINT DISTRICTS DRAINS INTO A SMALL PUMPING STATION EQUIPPED WITH TWO AUTOMATIC ELECTRICALLY DRIVEN PUMPS, LOCATED ON CITY LAND AT FIELDS POINT JUST SOUTH OF NEW YORK AVENUE AND FROM THERE IS PUMPED THROUGH A CAST-IRON FORCE MAIN DIRECTLY TO THE SEWAGE DISPOSAL PLANT.

A PART OF THE SEWAGE FROM THE WEST ELMWOOD DISTRICTS DRAINS INTO A SMALL PUMPING STATION, EQUIPPED WITH TWO AUTOMATIC ELECTRICALLY DRIVEN PUMPS, LOCATED ON CITY LAND AT RESERVOIR AVENUE AND PONTIAC AVENUE AND FROM THERE DRAINS INTO THE RUTHERGLEN AVENUE GRAVITY-FLOW SEWER.

A COMPARATIVELY HIGH LEVEL SEWER COLLECTS SEWAGE FROM THE ELMWOOD AND SOUTH PROVIDENCE DISTRICTS AND FLOWS THROUGH GRAVITY SEWERS, DIRECTLY TO THE SEWAGE DISPOSAL PLANT.

GENERALLY, WITH THE EXCEPTIONS AS OUTLINED IN PREVIOUS PARAGRAPHS, LOW LEVEL SEWERS COLLECT THE SEWAGE FROM THE REMAINDER OF THE CITY DISTRICTS, WITH MOST OF THE EAST SIDE SEWAGE FLOWING THROUGH AN INVERTED SYPHON SEWER UNDER THE PROVIDENCE RIVER AT INDIA STREET, AND THE SEWAGE FLOWS BY GRAVITY TO THE LARGE PUMPING STATION AT ERNEST STREET. (SEE DESCRIPTION OF PUMPING STATION ELSEWHERE). AT THE PUMPING STATION THE SEWAGE IS LIFTED APPROXIMATELY 27 FEET TO THE HIGH LEVEL SEWER IN ERNEST STREET AND FLOWS BY GRAVITY TO THE SEWAGE DISPOSAL PLANT. (SEE DESCRIPTION OF THE SEWAGE DISPOSAL PLANT ELSEWHERE).

THE SEWAGE PUMPING STATION (ERNEST STREET)

FROM AUGUST 1938 TO JANUARY 1944 THE SEWAGE PUMPING STATION WAS MODERNIZED BY CHANGING FROM STEAM DRIVEN PUMPS TO ELECTRICALLY DRIVEN PUMPS AND PROVIDED AN OUTLET FOR SURPLUS ELECTRICAL POWER GENERATED AT THE CITY OF PROVIDENCE INCINERATOR AT FIELDS POINT. THE NEW PUMPS ARE CAPABLE OF PUMPING A TOTAL OF 200 MILLION GALLONS OF SEWAGE DAILY AND OPERATE WITH 2300 VOLT, 60 CYCLE, ALTERNATING CURRENT MOTORS. THIS PLANT HAS FUNCTIONED PERFECTLY SINCE INSTALLATION AND HAD NOT FAILED TO PERFORM SATISFACTORILY THROUGH FLASH FLOODS AND HURRICANES.

SEWAGE FROM PAWTUCKET, CRANSTON AND NORTH PROVIDENCE

BY SPECIAL ACTS OF THE RHODE ISLAND LEGISLATURE, PARTS OF THE PAWTUCKET AND CRANSTON SEWAGE AND ALL OF THE NORTH PROVIDENCE DOMESTIC SEWAGE ARE ALLOWED TO ENTER THE CITY OF PROVIDENCE SEWER SYSTEM FOR DISPOSAL AND TREATMENT.

RECEIVED FROM PAWTUCKET

1951-1952-400,000,000 GALLONS ESTIMATED AND BILLED FOR \$11,925.00.

RECEIVED FROM CRANSTON

(NARRAGANSETT BREWING COMPANY) CONTRACT DATED FEBRUARY 1, 1949.

1951-1952-64,207,200 GALLONS METERED AND BILLED FOR \$3677.58

RECEIVED FROM NORTH PROVIDENCE (CONTRACT DATED DECEMBER 4, 1939)

1951-1952-1915,082,000 GALLONS ESTIMATED, CONTRACT TERMS \$20,000.00 ANNUALLY.

PRIVATE DRAINS

IN CO-OPERATION WITH THE OFFICE OF THE SANITARY ENGINEER, A COMPLETE RECORD IS MADE OF ALL SEWAGE DRAINAGE INSTALLATIONS IN PRIVATE HOUSES. THESE RECORDS AND RECORD PLANS ARE MADE AND FILED BY THE SEWER SECTION OF THE PUBLIC WORKS ENGINEERING OFFICE AND CONTAIN VALUABLE INFORMATION OF INTEREST TO PROPERTY OWNERS, TITLE SEARCHERS, ETC. ALL NEW WORK IS COVERED BY FIELD INSPECTION AND MUST COMPLY WITH THE CITY ORDINANCES AS TO WORKMANSHIP AND MATERIALS AND THE WORK MUST BE DONE BY LICENSED PLUMBERS OR DRAIN LAYERS WHO MUST PROVE THEIR QUALIFICATIONS BEFORE BEING ISSUED PERMITS BY THE DIRECTOR OF PUBLIC WORKS.

IN THE JANUARY SESSION OF THE STATE LEGISLATURE - CHAPTER 1661 - 1945, THERE WAS ENACTED BY THE GENERAL ASSEMBLY AN ACT TO SIMPLIFY AND IMPROVE THE PRESENT SYSTEM OF LICENSING MASTER AND JOURNEYMEN PLUMBERS FOR THE PROTECTION OF PUBLIC HEALTH. SEC. 8 (READS AS FOLLOWS) "NOTHING IN THIS ACT SHALL PROHIBIT ANY CITY OR TOWN FROM GRANTING A LICENSE TO ANY PERSON AS A DRAIN LAYER TO ENGAGE IN THE BUSINESS OF THE LAYING OF DRAINS AND CESSPOOLS (WITH THE PROVISION, THAT IT IS NOT REQUIRED BY THE HOLDER OF A STATE LICENSE.)"

IN THE CALENDAR YEAR OF 1952 THE DIRECTOR OF PUBLIC WORKS ISSUED LICENSES TO EIGHT DRAIN LAYERS AND FOUR SPECIALS FOR SPRINKLER SYSTEM LICENSES. NO PLUMBING LICENSES WERE ISSUED. 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

IN CONNECTION WITH IMPROVEMENTS AT MUNICIPAL WHARF, PERIODICAL INSPECTIONS WERE MADE AND ESTIMATES FOR PAYMENTS TO THE CONTRACTORS WERE MADE.

DURING THIS FISCAL YEAR, SPECIFICATIONS WERE MADE AND BIDS WERE TABULATED FOR THE FOLLOWING PUBLIC WORKS DEPARTMENT EQUIPMENT:

ONE (1)	AUTOMOBILE	DIRECTOR
TEN (10)	SNOW PLOWS	HIGHWAY SECTION
ONE (1)	3/4 TON PICK-UP TRUCK	INCINERATOR SECTION
ONE (1)	LOW PRICED AUTOMOBILE	CHIEF OF SANITATION DIV.
ONE (1)	" " "	FORESTRY SECTION
ONE (1)	" " "	MUNICIPAL DOCK
ONE (1)	" " "	ELECTRICAL INSPECTION
TWO (2)	" " "	HIGHWAY SECTION
THREE (3)	TRUCKS (27000# DUMP)	" "
TWO (2)	TRUCKS (20500# DUMP WITH DERRICK AND BUCKET)	HIGHWAY & SEWER MAINT. SECTION
ONE (1)	SEWAGE EDUCTOR (27000# CHASSIS)	SEWER MAINTENANCE SECTION
ONE (1)	MOTORIZED STREET SWEEPER	HIGHWAY SECTION

OTHER MISCELLANEOUS WORK INCLUDED THE FOLLOWING:

PERSONAL PROPERTY INVENTORY MADE.

PLAN MADE FOR RELIEF SEWER IN CONNECTION WITH DRAINAGE FROM OLNEYVILLE VIADUCT AT THE INTERSECTION OF MAGNOLIA AND PILSUDSKI STS. AND SUBMITTED TO THE DEPT. OF PUBLIC WORKS.

DATA GATHERED TOGETHER FOR FINAL ALLOTMENT WITH THE MACK CONSTRUCTION CO. FOR SEWER BUILT AT CANADA POND. FINAL ESTIMATE DATED OCT. 19, 1951.

PLAN MADE FOR AN EXTENSION OF THE BROOK ON GRIMWOOD ST. OVER THE SANITARY SEWER. WORK WAS DONE BY THE BRIDGE MAINTENANCE SECTION, AND COMPLETED OCT. 26, 1951.

PLANS WERE MADE AND PERMITS WERE GRANTED BY THE CORPS OF U. S. ARMY ENGINEERS AND THE R. I. STATE DIVISION OF HARBORS AND RIVERS FOR THE CONSTRUCTION OF A LAND FILL DIKE WITH RIP-RAP FACES, TO BE BUILT JUST SOUTH OF MUNICIPAL WHARF, FIELDS POINT AND WILL EXTEND BEYOND THE LIMITS OF THE PRESENT HARBOR LINES. THE WORK HAS STARTED AND AT PRESENT CONSISTS OF EXCESS EXCAVATED MATERIALS FROM THE PUBLIC WORKS DEPARTMENT HIGHWAY PROJECTS, AND EXTENDS APPROXIMATELY 250 FEET IN A SOUTHERLY DIRECTION. EVENTUALLY WHEN COMPLETED, THE DIKE WILL ENCLOSE A LARGE AREA, WHICH WILL BE SUITABLE FOR DUMPING.

THE HARTFORD HOUSING AND THE MANTON HEIGHTS HOUSING PROJECTS OF THE PROVIDENCE HOUSING AUTHORITY, SEWER PLANS WERE CHECKED OVER, REVISED AND FINALLY APPROVED FOR CONSTRUCTION.

APPROVED TENTATIVE PLANS FOR A COAL CONVEYOR FOR THE NARRAGANSETT ELECTRIC CO. TO BE LOCATED ACROSS POINT STREET JUST SOUTH OF THE BRIDGE.

PLANS AND SPECIFICATIONS WERE PREPARED FOR A COORDINATED OUTDOOR NEW TRANSFORMER (SUB-STATION) AT THE INCINERATOR AND SEWAGE DISPOSAL PLANT. THE CONTRACT FOR THIS WORK WAS AWARDED TO COKEN CO. OF PROVIDENCE.

PLANS AND SPECIFICATIONS WERE PREPARED FOR THE REPLACEMENT OF THE PRESENT FENDERS AND DOLPHINS AT RED BRIDGE AND THE CONTRACT FOR THIS WORK WAS AWARDED TO THE HARBOR CONSTRUCTION CO., INC.

PLANS AND SPECIFICATIONS WERE PREPARED FOR THE INSTALLATION OF STEEL OPEN-FLOOR DECKING ON MERINO BRIDGE (GLENDRIDGE AVE.) TO REPLACE THE PRESENT WOOD FLOOR PLANKING. THE CONTRACT WAS AWARDED TO THE M. A. GAMMING CONSTRUCTION CO.

PLANS AND SPECIFICATIONS WERE PREPARED FOR A PLAIN CONCRETE FOUNDATION AND RETAINING WALL FOR THE TOILETS AND WORK HOUSE AT RED BRIDGE. THE ARCHITECTURAL PLANS WERE DRAWN BY THE OFFICE OF THE SUPT. OF BUILDINGS AND THE CONTRACT WAS AWARDED TO FRANK N. GUSTAFSON & SONS INC. WORK WAS STARTED ON JULY 10, 1952.

SOUNDINGS WERE TAKEN AND A PLAN MADE FOR THE DEPTHS OF WATER AT THE MUNICIPAL WHARF, FIELDS POINT. INSPECTION AND RESEARCH WORK WAS DONE AND SPECIFICATIONS DRAWN UP AND BIDS WERE TABULATED FOR THE SALE OF SCRAP METALS FROM THE ABANDONED "DECARIE" INCINERATOR ON KINSLEY AVE.

INSPECTION OF TWO BROKEN SLABS ON POINT STREET VIADUCT. WORK OF REPAIR DONE BY HIGHWAY DIV. ALSO A STUDY PLAN MADE FOR RAISING THE EXPANSION JOINTS AND PROVIDE FOR AN ASPHALT SURFACE ON TOP OF PRESENT SLABS.

PLAN MADE FOR MOVING BACK SOUTH EAST AND SOUTHWEST SIDEWALK CURDING ON POINT ST. BRIDGE AND APPROACHES. THIS WORK TO BE DONE BY CITY FORCES.

PLANS AND SPECIFICATIONS STARTED FOR A PROPOSED PARKING LOT AT THE DEXTER TRAINING GROUNDS.

APPROVED NEW CANOPY PLANS FOR THE FRANCIS S STREET UNDERPASS AT THE N. Y. N. H. AND H. R. R. BRIDGE. THIS WORK WAS DONE BY THE RAILROAD.

STUDIES MADE AND CONFERENCES HELD WITH THE PROVIDENCE GAS CO. FOR THE BEST METHODS AND PROCEDURES FOR CHANGING OVER FROM COAL GAS TO NATURAL GAS IN-~~SO-FAR~~ AS THE REPAIR AND MAINTENANCE OF STREET SURFACING WAS CONCERNED. A PROGRAM WAS MARKED OUT AND ADHERED TO, AND THE WORK IS ABOUT 90% COMPLETE.

MANY CONFERENCES WERE HELD WITH "FRAEGER AND MAGUIRE" ENGINEERS FOR THE PROPOSED NORTH-SOUTH FREEWAY IN CONNECTION WITH STREET LINES AND SEWER CHANGES.

THIS DIVISION HAS MADE STUDIES, PREPARED PRELIMINARY PLANS, CONFERRED WITH OTHER CITY DEPARTMENTS, AND CONSULTED WITH THE STATE DEPARTMENT OF PUBLIC WORKS, THE FEDERAL PUBLIC ROADS ADMINISTRATION, AND THE CONTRACT ENGINEERS AND ARCHITECTS PREPARING PLANS AND SPECIFICATIONS FOR ALL PUBLIC WORKS PROJECTS IN THE CITY.

PLANS SUBMITTED BY THE VARIOUS UTILITIES WERE CHECKED OVER AND APPROVED FOR VAULT AND DUCT INSTALLATIONS.

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

RECOMMENDATION:

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

RESPECTFULLY SUBMITTED

GILBERT SMALL
CHIEF OF THE ENGINEERING OFFICE

GS:BS

CONSTRUCTION AND MAINTENANCE DIVISION

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

DEAR SIR:

FOLLOWING IS THE ANNUAL REPORT COVERING ACTIVITIES OF THE CONSTRUCTION AND MAINTENANCE DIVISION FOR THE YEAR ENDING SEPTEMBER 30, 1952. THIS DIVISION CONSISTS OF THE CONSTRUCTION AND MAINTENANCE ADMINISTRATION, HIGHWAY, BRIDGE MAINTENANCE, SIDEWALKS AND CURBING, FORESTRY, SNOW REMOVAL, SEWER MAINTENANCE AND CONSTRUCTION AND PUBLIC BUILDINGS SECTIONS.

ADMINISTRATION

THE EXPENDITURES OF THIS SECTION FOR THE YEAR ENDING SEPTEMBER 30, 1952 WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$7470.67
ITEM 1 SERVICES OTHER THAN PERSONAL	12.00
ITEM 2 MATERIALS AND SUPPLIES	273.60
ITEM 5 CAPITAL OUTLAY	309.50
TOTAL	<u>\$8065.77</u>

HIGHWAY SECTION

THE MAIN DUTY OF THIS SECTION IS THE MAINTENANCE OF APPROXIMATELY 340 MILES OF PAVED STREETS, INCLUDING THE REPAIRING, PATCHING, SEALCOATING, SURFACING, RESURFACING OR RECONSTRUCTION OF HIGHWAYS AND THE SETTING, RESETTING OR REPLACING OF GRANITE CURBING.

THIS SECTION ALSO CONSTRUCTS NEW HIGHWAYS WHEN ORDERED AND PERFORMS MISCELLANEOUS JOBS FOR OTHER SECTIONS OF THE DEPARTMENT OF PUBLIC WORKS AS WELL AS FOR OTHER CITY DEPARTMENTS.

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

ITEM 0 PERSONAL SERVICES	\$776526.68
ITEM 1 SERVICES OTHER THAN PERSONAL	26915.07
ITEM 2 MATERIALS AND SUPPLIES	180663.77
ITEM 3 SPECIAL ITEMS	34.08
ITEM 5 CAPITAL OUTLAY	32221.99
ITEM 6 LAND AND BUILDINGS	3435.00
ITEM 7 STRUCTURES AND IMPROVEMENTS	50000.00
TOTAL	<u>\$1069796.59</u>

REVENUE

DRIVEWAYS	\$21308.80
DRAIN OPENINGS	826.02
SCRAP METAL	1161.30
SCRAP TIRES	635.55
WATER REFUND	565.84
CURBING	3568.11
GRADING	47.87
TOTAL	<u>\$28113.49</u>

PATCHING AND REPAIRING SUNDRY STREETS

PATCHING MATERIAL USED FOR TEMPORARY REPAIRS WAS PURCHASED FROM PRIVATE VENDORS.
APPROXIMATELY 340 MILES OF HIGHWAYS WERE MAINTAINED DURING THE FISCAL YEAR.

MATERIALS USED ON GENERAL PATCHING AND REPAIRING WERE AS FOLLOWS:

COLD PATCH	216.4	TONS
A.C.MIX	1185.0	TONS
SAND	800.7	TONS
2-INCH GRAVEL	312.0	TONS
KEROSENE	4927.8	GALS.
CEMENT	526	BAGS

MATERIALS USED ON SEALCOATING WERE AS FOLLOWS:

ROAD OIL	17484	GALS.
KEROSENE	100	GALS.
ASPHALT A.C.MIX	44.5	TONS
SAND	7.6	TONS
BUCKWHEAT	904	TONS

MATERIALS USED ON RESURFACING WERE AS FOLLOWS:

1- $\frac{1}{4}$ INCH GRAVEL	337.8	TONS
SAND	260	TONS
KEROSENE	581	GALS.
CEMENT	24	BAGS
ASPHALT A.C.MIX	16804	TONS
CONCRETE READY MIX	283	CU.YDS.
TOPEKA MIX	686.6	TONS
2-INCH STONE	654	TONS
BUCKWHEAT	2	TONS
3-4 INCH STONE	3	TONS
SOLUBLE C. OIL	486	GALS.

MATERIALS USED ON STREETS CONSTRUCTED AND RECONSTRUCTED WERE AS FOLLOWS:

96% ASPHALT	4442	GALS.
KEROSENE	252	GALS.
3/4 INCH STONE	120	TONS
2-INCH STONE	782	TONS
DUST	72	TONS
SAND	182.3	TONS
BUCKWHEAT CRUSHED STONE	64	TONS
CEMENT	50	BAGS
ASPHALT A.C.MIX	214.5	TONS

DRIVEWAYS AND CURBING

DRIVEWAYS (CONSTRUCTED)	392	
DRIVEWAYS (WIDENED)	24	
DRIVEWAYS (CLOSED)	18	
DRIVEWAYS (RELOCATED)	13	
2 FT. CIRCULAR CORNERS SET	620	
S B CORNERS SET	160	
7-INCH CURB SET	730	LIN.FT.
7-INCH CURB SECOND HAND	94	LIN.FT.
CURB SET AND RESET	19547	LIN.FT.

STREETS REBUILT

MT. PLEASANT AVENUE, ATWELLS AVENUE TO CHALKSTONE AVENUE	A.C. ON STONE BASE
NEW YORK AVENUE, EDDY STREET TO NARRAGANSETT BLVD.	A.C. ON STONE BASE
CAMP STREET, OLNEY STREET TO LIPPITT STREET	A.C. ON CONCRETE BASE
EVERETT AVENUE, ELMGROVE AVENUE TO TABER AVENUE	BITUMINOUS MACADAM

STREETS STARTED IN 1950-1951 AND COMPLETED IN 1951-1952

BLACKSTONE BLVD. (WEST SIDE), HOPE STREET TO BUTLER AVENUE	A.C. ON STONE BASE
MURRAY STREET, PLAINFIELD STREET TO SIBYL STREET	BITUMINOUS MACADAM

STREETS STARTED IN 1951-1952 AND NOT COMPLETED

EDDY STREET, ERNEST STREET TO BROAD STREET	A.C. ON STONE BASE
PACIFIC AVENUE, BURRINGTON AVENUE TO JONATHAN STREET	A.C. (2" COVER)
BROOK STREET, WATERMAN STREET TO HOPE STREET	A.C. ON CONCRETE
MT. PLEASANT AVENUE, CHALKSTONE AVENUE TO SMITH STREET	A.C. (2" COVER)

STREETS RESURFACED

PRESIDENT AVENUE, ELMGROVE AVENUE TO ARLINGTON AVENUE
 BLACKSTONE BOULEVARD, ROCHAMBEAU AVENUE TO BUTLER AVENUE
 BEACON AVENUE, BROAD STREET TO POINT STREET
 COURTLAND STREET, WESTMINSTER STREET TO BROADWAY
 HENDERSON STREET, EDDY STREET TO ALLENS AVENUE
 HOSPITAL STREET, EDDY STREET TO BASSET STREET
 DOUGLAS AVENUE, EATON STREET TO CITY LINE
 HOPE STREET, WATERMAN STREET TO WILLIAMS STREET
 CARPENTER STREET, MARSHALL STREET TO KNIGHT STREET
 DEAN STREET, CARPENTER STREET TO ATWELLS AVENUE
 ATLANTIC AVENUE, ELMWOOD AVENUE TO RESERVOIR AVENUE
 SUTTON STREET, BROADWAY TO ATWELLS AVENUE
 CAMP STREET, LIPPITT STREET TO ROCHAMBEAU AVENUE
 WEEDEN STREET, FEDERAL STREET TO ATWELLS AVENUE
 AMERICA STREET, BROADWAY TO ATWELLS AVENUE
 PLAIN STREET, BEACON AVENUE TO CLIFFORD STREET

STREETS SEALCOATED

MARGRAVE AVENUE, BLACKSTONE BLVD. TO GROTTO AVENUE
 STAMFORD AVENUE, SPOONER STREET TO MCKINLEY STREET
 SAWYER STREET, STAMFORD AVENUE TO WESTERLY TERMINATION
 SPOONER STREET, ELMWOOD AVENUE TO STAMFORD AVENUE
 THURSTON STREET, ELMWOOD AVENUE TO STAMFORD AVENUE
 DIXON STREET, ELMWOOD AVENUE TO STAMFORD AVENUE
 MERINO STREET, PLAINFIELD STREET TO HARTFORD AVENUE
 LENOX AVENUE, BROAD STREET TO ELMWOOD AVENUE
 SUMNER STREET, BROAD STREET TO RUSKIN STREET
 PETTYS AVENUE, KILLINGLY STREET TO HARTFORD AVENUE
 JEWELL STREET, PLAINFIELD STREET TO KILLINGLY STREET
 LOWELL AVENUE, PLAINFIELD STREET TO HARTFORD AVENUE
 PLEASANT STREET, NORTH MAIN STREET TO CAMP STREET
 EVERETT AVENUE, TABER AVENUE TO ARLINGTON AVENUE
 ALVERSON AVENUE, PLAINFIELD STREET TO HARTFORD AVENUE
 LEO AVENUE, CHARLES STREET TO CITY LINE

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, SIDEWALK AND CURBING, FORESTRY, PUBLIC BUILDINGS, SEWAGE DISPOSAL, GARBAGE INCINERATOR, MUNICIPAL WHARF, CITY SERGEANT, AND THE PARK, RECREATION AND WELFARE DEPARTMENTS.

SIDEWALKS ON BEACON AVENUE AT HAYWOOD PARK
RELOCATING RADIUS AT TRINITY SQUARE
SETTING CURB ON STREETS BOUNDING BROWN UNIVERSITY, THAYER STREET, CHARLESFIELD STREET AND BROWN STREET
SIDEWALKS AT DEXTER TRAINING GROUND, PARADE STREET, HOLLYWOOD ROAD AND DEXTER STREET
SIDEWALKS ON DIVISION STREET
SIDEWALKS FOR WELFARE DEPARTMENT ON SOMERSET STREET
INSTALLING SIDEWALKS AT POST OFFICE SQUARE
RELOCATING RADIUS AT WEST EXCHANGE AND GASPEE STREETS
CONCRETE SIDEWALK AT WEST EXCHANGE STREET AND GASPEE STREET; ALSO CONCRETE BASE AND ASPHALT SURFACE ROADWAY
RELOCATING CURB ON SABIN STREET FROM GASPEE STREET TO UNION STREET AND BUILDING NEW YAR SIDEWALKS
REMOVING RUBBISH FROM CITY HALL

LAWNS AND GRASS PLATS

COHAN BOULEVARD	EDDY AND SHIP STREETS
OAKLAND AVENUE	CHAD BROWN STREET
KINSLEY AVENUE	ATWELLS AVENUE
NORTH MAIN STREET	MARKET SQUARE
FRANKLIN SQUARE	CEMETERY STREET
ELMGROVE AVENUE	PITMAN STREET
EIGHTH STREET AND LORIMER AVENUE	

BRIDGE MAINTENANCE SECTION

THIS SECTION IS RESPONSIBLE FOR THE REPAIR AND MAINTENANCE OF THE BRIDGES OF THE CITY.

THE EXPENDITURES OF THE SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$39,988.20
ITEM 1 SERVICES OTHER THAN PERSONAL	815.91
ITEM 2 MATERIALS AND SUPPLIES	5,672.68
ITEM 5 CAPITAL OUTLAY	295.00
ITEM 7 OTHER STRUCTURES AND IMPROVEMENTS	62,498.00
TOTAL	\$109,269.79

REVENUE

WATER REFUND	\$24.92
DAMAGE PAYMENT ON MERINO BRIDGE	100.00
TOTAL	\$124.92

THERE ARE 49 CITY-OWNED BRIDGES, OF WHICH 18 REQUIRED REPAIR WORK THIS YEAR.

REPAIRS WERE MADE ON THE FOLLOWING BRIDGES, SUCH AS RENEWAL OF WORN PLANKING, PAINTING, MACHINERY REPAIRS AND THE NECESSARY MAINTENANCE OF TOOLS TO DO THIS WORK.

ACORN STREET BRIDGE
 ADELAIDE AVENUE FOOTBRIDGE
 ATWELLS AVENUE BRIDGE
 BRANCH AVENUE CULVERT
 CEMETERY STREET BRIDGE
 FRANCIS STREET BRIDGE

DYER STREET BRIDGE
 LELAND STREET BRIDGE
 MANTON BRIDGE (TAR BRIDGE)
 MERINO BRIDGE (GLENBRIDGE)
 MERINO PARK FOOTBRIDGE
 NASH LANE BRIDGE (PETTIS ST.)

PARK STREET BRIDGE
 POINT STREET BRIDGE
 RED BRIDGE
 ROGER WILLIAMS AVENUE
 WEST RIVER ST. BRIDGE
 MILL STREET BRIDGE

ALSO THE FOLLOWING WORK WAS DONE:

FENCES WERE REPAIRED ON CANAL STREET AT THE MOSHASSUCK RIVER, AND ON PROMENADE STREET AT THE WOONASQUATUCKET RIVER. THE BOATS AT RED BRIDGE AND POINT STREET BRIDGE WERE REPAIRED, CAULKED AND PAINTED. THE ROADWAY ON ACORN STREET BRIDGE WAS COMPLETELY REBUILT AND THE JOB OF PAINTING THE POINT STREET VIADUCT WAS STARTED. POINT STREET BRIDGE WAS COMPLETELY PAINTED BY CONTRACT.

A CONTRACT FOR THE RECONSTRUCTION OF THE MANTON BRIDGE OVER THE WOONASQUATUCKET RIVER AND THE CONSTRUCTION OF A NEW BRIDGE OVER THE WOONASQUATUCKET RIVER ON MANTON AVENUE, AT OLNEYVILLE SQUARE, TO REPLACE THE TAR BRIDGE, HAS BEEN AWARDED TO THE M.A. GAMMINO CONSTRUCTION COMPANY IN CONJUNCTION WITH THE CONSTRUCTION OF MANTON AVENUE. THIS IS A FEDERAL-STATE PROJECT. WORK ON THE MANTON BRIDGE HAS BEEN STARTED.

A CONTRACT FOR THE RE-DECKING OF MERINO BRIDGE ON GLENBRIDGE AVENUE WITH OPEN STEEL GRATING HAS BEEN AWARDED TO THE M.A. GAMMINO CONSTRUCTION COMPANY. WORK HAS NOT BEEN STARTED.

A CONTRACT FOR THE CONSTRUCTION OF NEW FENDERS AND DOLPHINS AT RED BRIDGE HAS BEEN AWARDED TO THE HARBOR CONSTRUCTION COMPANY. WORK HAS NOT BEEN STARTED.

A CONTRACT FOR THE ERECTION OF A NEW BUILDING FOR THE OPERATORS AT RED BRIDGE HAS BEEN AWARDED TO F.N. GUSTAFSON & SONS, INC., CONTRACTORS. THE CONSTRUCTION IS WELL UNDER WAY ON THIS PROJECT.

SIDEWALK AND CURBING SECTION

THIS SECTION IS RESPONSIBLE FOR THE CONDITION OF ALL SIDEWALKS IN THE CITY. IT HAS CHARGE OF THE LICENSING OF SIDEWALK CONTRACTORS AND IS RESPONSIBLE FOR THEIR INSPECTION. IT IS ALSO RESPONSIBLE FOR THE POSTING AND MAINTENANCE OF STREET SIGNS.

THE EXPENDITURES AND REVENUE OF THIS SECTION FOR THE YEAR ENDING SEPTEMBER 30, 1952 ARE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$13,411.78
ITEM 1 SERVICES OTHER THAN PERSONAL	558.18
ITEM 2 MATERIALS AND SUPPLIES	<u>1,690.57</u>
TOTAL	\$15,660.53

REVENUE

SPECIAL ASSESSMENTS	280.73
SIDEWALK CONTRACTORS LICENSES	<u>840.00</u>
TOTAL	\$1120.73

THE OPERATIONS OF THE SECTION WERE AS FOLLOWS:

SIDEWALK CONTRACTORS LICENSES ISSUED	82
NOTICES SERVED TO BUILD OR REPAIR	716
BUILT OR REPAIRED	583
PERMITS TO BUILT OR REPAIR	1230
SEWER OPENINGS INSPECTED	433

DRIVEWAYS INSPECTED	337
MEMORIAL SIGNS REPAINTED	34
WASHOUT DEPRESSIONS INSPECTED	187
WING STREET SIGNS REPAINTED AND RE-LETTERED	172
POLE OPENINGS INSPECTED	190
TOTAL LINEFT. OF TAR CONCRETE SIDEWALKS BUILT	46501
TOTAL LINEFT. OF CEMENT CONCRETE SIDEWALKS BUILT	43369

THIS SECTION HAS UNDERTAKEN AN EXTENSIVE CAMPAIGN IN HAVING ALL SIDEWALKS IN THE CITY REBUILT OR REPAIRED AND PUT IN GOOD CONDITION. IT SHOULD BE NOTED THAT MORE THAN 89,000 LINEFT. OF SIDEWALKS HAVE BEEN LAID THIS YEAR.

THE FOLLOWING SIDEWALK PROJECTS HAVE ALSO BEEN UNDERTAKEN IN CONJUNCTION WITH THE NEW ROAD PROGRAM HAVING BEEN SPONSORED BY THE STATE OF RHODE ISLAND PUBLIC WORKS DEPARTMENT, FEDERAL BUREAU OF PUBLIC ROADS, AND THE CITY OF PROVIDENCE WITH PROPERTY OWNERS SHARING ONE-HALF OF THE COST OF CONSTRUCTING THESE SIDEWALKS.

ALL THIS WORK IS BEING SUPERVISED BY CITY AND STATE INSPECTORS.

PROJECTS	SIDEWALKS CONDEMNED	LINEAL FEET OF SIDEWALKS REBUILT OR REPAIRED	
		CEMENT	ASPHALT
OLNEYVILLE SQUARE	33	2093.0	23.0
MANTON AVENUE	251	INCOMPLETE	
ELMGROVE AVENUE	110	INCOMPLETE	

THIS SECTION IS CONTINUALLY REPLACING ALL DEFECTIVE STREET SIGNS WITH BLACK AND WHITE METAL SIGNS. APPROXIMATELY 95 PER CENT. OF THE STREET SIGNS IN THE CITY HAVE BEEN REPLACED WITH NEW SIGNS. 2,700 SIGNS HAVE BEEN ORDERED THIS YEAR AND ARE NOW BEING ERECTED.

THE CITY HIGHWAY SECTION HAS BUILT NEW ASPHALT SIDEWALKS AT THE DEXTER TRAINING GROUNDS, CHAPIN PARK PLAYGROUND, HAYWARD PARK AND POST OFFICE SQUARE.

FORESTRY SECTION

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

THE EXPENDITURES OF THE FORESTRY SECTION FOR THE YEAR ENDING SEPTEMBER 30, 1952 ARE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$55,500.33
ITEM 1 SERVICES OTHER THAN PERSONAL	3,257.43
ITEM 2 MATERIALS AND SUPPLIES	9,867.87
ITEM 5 CAPITAL OUTLAY	<u>1,140.00</u>
TOTAL	\$69,765.63

REVENUE

SCRAP METAL	3.49
WATER REFUND	<u>14.40</u>
TOTAL	\$17.89

OWING TO THE RAPID INCREASE IN THE DUTCH ELM DISEASE PROMPT ACTION HAD TO BE TAKEN IN ORDER TO PREVENT THE SPREAD OF THIS MENACE. A THOROUGH SPRAYING WAS GIVEN TO ALL THE ELMS WITH A 12 PER CENT. SOLUTION OF ODT. THIS WAS APPLIED JUST BEFORE THE FOLIAGE APPEARED.

A SPRAY OF 6 PER CENT. OF DDT WAS APPLIED IN THE FOLIAGE SEASON TO COUNTERACT THE DAMAGE DONE BY THE LEAF EATING BEETLE.

ALL TREES FOUND INFECTED WITH DUTCH ELM DISEASE WILL BE PROMPTLY DESTROYED. BURNING IS DONE AT THE HENDERSON STREET YARD. THIS LOCATION IS NOT SUITABLE AS THE DOCK HAS CAUGHT FIRE MANY TIMES; IT IS ALSO A FIRE HAZARD TO SURROUNDING WOODEN BUILDINGS. A NEW AND MORE SUITABLE LOCATION SHOULD BE PROVIDED IN THE INTERESTS OF SAFETY.

DURING THE PLANTING SEASON PIN OAKS, MAPLES AND SCARLET HAWTHORNES WERE SET OUT. THIS IS A VALUABLE ADDITION TO THE SHADE TREES ALREADY ON THE STREETS AND ARE WELL WORTH THE EFFORT. ALSO IN CONNECTION WITH THE SHADE TREE PLAN, 800 NEW SAPLINGS WERE PURCHASED AND SET OUT IN THE NEW NURSERY AT ROGER WILLIAMS PARK. THIS PLANTING CONSISTS OF TWO VARIETIES, PIN OAKS AND UPRIGHT MAPLES, WHICH ASSURES A PROFITABLE INVESTMENT FOR THE FUTURE AND SHOULD SHOW RAPID GROWTH IN THE LOCATION SET ASIDE FOR THIS PURPOSE.

NUMBER OF TREES PRUNED	2526
NUMBER OF TREES REMOVED	400
NUMBER OF TREES SPRAYED	10200
NUMBER OF TREES PLANTED	450

SNOW REMOVAL

SNOW REMOVAL IS PRIMARILY A FUNCTION OF THE HIGHWAY SECTION. ALL THE ICE CONTROL (SANDING, SALTING, ETC.) IS ACCOMPLISHED BY THIS SECTION. THE PLOWING IS PERFORMED IN THE FOLLOWING MANNER:

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

ALL EQUIPMENT AND MATERIAL FOR THE PERFORMANCE OF THIS WORK IS PROCURED WITH THE FUNDS ALLOCATED TO THIS SECTION.

DURING THE YEAR THE FOLLOWING EQUIPMENT WAS PURCHASED:

3 FLINK TAILGATE SPREADERS
10 STANDARD DUTY TRIP REVERSIBLE BLADE SNOW PLOWS

THE SECTION ALSO USED THE FOLLOWING MATERIALS DURING THE YEAR:

550 TONS OF SALT
5600 TONS OF SAND

EXPENDITURES

ITEM 0 PERSONAL SERVICES	\$58,075.17
ITEM 1 SERVICES OTHER THAN PERSONAL	2,111.65
ITEM 2 MATERIALS AND SUPPLIES	14,101.90
ITEM 5 CAPITAL OUTLAY	7,022.56
TOTAL	<u>\$81,311.12</u>

SEWER MAINTENANCE SECTION

THIS SECTION IS RESPONSIBLE FOR THE INSPECTION, MAINTENANCE, CLEANING, REPAIRS, 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	\$269,018.12
ITEM 1 SERVICES OTHER THAN PERSONAL	7,610.17
ITEM 2 MATERIALS AND SUPPLIES	22,666.65
ITEM 5 CAPITAL OUTLAY	24,596.85
TOTAL	<u>\$323,891.79</u>

REVENUE

LABOR AND MATERIALS	1311.55
CITY OF CRANSTON	2732.95
CITY OF PAWTUCKET	11925.00
TOWN OF NORTH PROVIDENCE	20000.00
SCRAP METAL	289.33
WATER REFUND	505.40
ACCIDENT TO TRUCK	48.75
	<u>\$36812.98</u>

MAINTENANCE AND CONSTRUCTION WORK PERFORMED

FOLLOWING IS AN OUTLINE OF THE WORK PERFORMED:

BROKEN CATCH BASIN COVERS REPLACED	5
BROKEN CATCH BASIN FRAMES AND COVERS REPLACED	7
BROKEN MANHOLE COVERS REPLACED	4
BOX INLET COVERS REPLACED	2
BUILT SANITARY SEWER IN PROSPER STREET	293.66 FT.
BUILT STORM SEWER IN PROSPER STREET	321.00 FT.
MANHOLES REPAIRED	8
BASINS REMODELED	3
CHUTES REBUILT	19
BASINS REPAIRED	12
BROKEN INLET STONES REPLACED	16
GUTTER GRATES RESET	2

DEPRESSIONS IN THE FOLLOWING STREETS WERE REPORTED AS CAUSED BY LOOSE JOINTS AND BROKEN PIPES IN TRUNK LINES. THESE DEPRESSIONS WERE CORRECTED BY DIGGING UP STREETS AND REPLACING BROKEN PIPES AND REPAIRING JOINTS.

CANTON STREET	CHURCH STREET
BUTLER AVENUE	DUDLEY STREET
THURBERS AVENUE	SOMERSET STREET
PAVILION AVENUE	

REPORT ON OIL AND GASOLINE INSPECTIONS

PERTAINING TO FLOOR DRAINS IN SERVICE STATIONS, GARAGES, FACTORIES AND OTHER PLACES OF BUSINESS:

INSPECTORS MADE 606 VISITS AND DISCOVERED VERY FEW VIOLATIONS OF THE LAW. AFTER BEING NOTIFIED TO MAKE NECESSARY IMPROVEMENTS THE DEFICIENCIES WERE PROMPTLY CORRECTED.

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

5401 BASINS CLEANED	13,202.75 CU.YDS.
43 SUMPS CLEANED	87.31 CU.YDS.
506 GRATES CLEANED	254.95 CU.YDS.
LINES FLUSHED	21,795.00 FT.
1408 COMPLAINTS RECEIVED	(ALL CLEARED)

STREET OPENINGS

STREET OPENINGS FOR PRIVATE DRAIN CONNECTIONS, OCTOBER 1, 1951 TO SEPTEMBER 30, 1952 - 91.

LABOR AND MATERIALS FURNISHED FOR WORK PERFORMED IN CONJUNCTION WITH THE HIGHWAY SECTION ON STREETS LISTED BELOW:

BASINS BROUGHT TO GRADE	22
MANHOLES BROUGHT TO GRADE	536
BROKEN CATCH BASIN FRAMES AND COVERS REPLACED	1
COST OF LABOR AND MATERIALS FOR ABOVE WORK	\$19,265.21

AMERICA STREET	DEPINEDO STREET	PRESIDENT AVENUE
ARGOL STREET	DOUGLAS AVENUE	ROYAL AVENUE
ALGER AVENUE	HORTON STREET	SOUTH MAIN STREET
BASSETT STREET	HOSPITAL STREET	STONELAW AVENUE
BEACON AVENUE	HENDERSON STREET	SUTTON STREET
BLACKSTONE BLVD.	ITALY STREET	SWIFT STREET
BROOK STREET	MALBONE STREET	TOURO STREET
CALLAN STREET	METCALF STREET	WANSKUCK AVENUE
CAMP STREET	MINK ROAD	WEEDEN STREET
CHATHAM STREET	MINTO STREET	WINONA STREET
CHESTNUT STREET	MT. PLEASANT AVENUE	EDDY STREET
COLLEGE ROAD	NEW YORK AVENUE	EVERETT AVENUE
COURTLAND STREET	PACIFIC AVENUE	FARM STREET
CUMERFORD STREET	PLEASANT VALLEY PARKWAY	FUNSTON AVENUE
DEAN STREET	POINT STREET	FOGH AVENUE

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 OWNER BY THE CITY. THEY HAVE A DRAFTING ROOM ON CHALKSTONE AVENUE WHERE THE PLANS AND SPECIFICATIONS ARE MADE. THEY ALSO HAVE A SHOP AND STOCKROOM ON HENDERSON STREET. THE BUILDING TRADES WORKERS EMPLOYED BY THE SECTION USE THE SHOP FOR FABRICATING SOME OF THE WOOD AND METAL FIXTURES USED IN THE RENOVATION AND REPAIR OF THE BUILDINGS.

EMPLOYEES OF THIS SECTION SUPERVISE THE VARIOUS CONSTRUCTION PROJECTS.

THE BUILDING TRADES WORKERS ARE HIRED THROUGH THE LABOR UNIONS AS REQUIRED. THEIR PAY, AS WELL AS THE COST OF THE MATERIALS USED, IS PAID FOR OUT OF THE APPROPRIATIONS OF THE AGENCY IN CHARGE OF THE BUILDING, (SCHOOL DEPARTMENT, DEPARTMENT OF POLICE AND FIRE, CITY SERGEANT, ETC.)

EXPENDITURES

ITEM 0 PERSONAL SERVICES	383,146.48
ITEM 1 SERVICES OTHER THAN PERSONAL	2,715.74
ITEM 2 MATERIALS AND SUPPLIES	3,803.02
ITEM 3 SPECIAL ITEMS	10.00
ITEM 5 CAPITAL OUTLAY	1,444.31
TOTAL	91,199.55

REVENUE

REFUND ON WATER	\$88,00
SCRAP METAL	25,00
SALE OF TILE	<u>325,00</u>
TOTAL	\$438,00

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

ROUGHENED GRANITE SIDEWALKS AND STEPS AROUND THE CITY HALL TO MAKE THEM SAFE FOR PEDESTRIANS.

REPAIRED GUTTERS AND ROOF OF CITY HALL.

REPAIRED ELEVATOR PENTHOUSES AT CITY HALL.

REPAIRED TILE FLOORS IN CITY HALL.

BUILT NEW OFFICE PARTITIONS IN CITY HALL.

DESIGNED AND SUPERVISED INSTALLATION OF AIR CONDITIONING UNIT IN THE TABULATING ROOM OF CITY HALL.

REPAIRED BOILERS AT THE POLICE AND FIRE HEADQUARTERS.

REPAIRED PARAPET WALL AND PAINTED BRICKWORK AT POINT STREET FIRE STATION.

REMOVED THE PLUMBING, REBUILT THE CELL BLOCK AND PAINTED THE INTERIOR OF OHAD BROWN POLICE STATION.

SUPERVISED THE PLANS AND SPECIFICATIONS FOR THE NEW FOX POINT ELEMENTARY SCHOOL.

SUPERVISED THE PLANS FOR THE NEW CITY SCALE ON KINSLEY AVENUE.

SUPERVISED THE CONSTRUCTION OF THE NORTH MAIN STREET FIRE STATION.

PAINTED THE INTERIOR AND EXTERIOR OF SIX BATH HOUSES.

DID PAINTING AND GENERAL REPAIR WORK ON 45 PUBLIC SCHOOL BUILDINGS.

PERFORMED GENERAL REPAIR WORK AND REMODELLING AT THE CASINO AND BOAT HOUSE IN ROGER WILLIAMS PARK.

LAID WATER LINE FOR THE NEW CITY NURSERY.

DESIGNED OVERHEAD DOORS FOR THE SEWER MAINTENANCE GARAGE ON ALLENS AVENUE.

SUPERVISED THE INSTALLATION OF THE AIR CONDITIONING UNIT IN THE OPERATING ROOM OF THE CHAPIN HOSPITAL.

MADE PLANS AND SPECIFICATIONS FOR THE REPAIR AND REMODELLING OF THE PUBLIC WELFARE DISTRICT OFFICE ON MONTAGUE STREET.

SUPERVISED THE CONSTRUCTION OF THE BUILDING FOR THE OPERATORS OF RED BRIDGE.

RECOMMENDATIONS

NEW FENCES SHOULD BE BUILT ON THE BRIDGE AT MARKET SQUARE BETWEEN WEYBOSSET STREET AND EXCHANGE PLACE.

NEW MECHANICAL EQUIPMENT SHOULD BE PURCHASED FOR THE SEWER MAINTENANCE SECTION, SUCH AS,

2 EDUCTORS (FOR CLEANING BASINS)	\$44,000.00
1 DERRICK TRUCK WITH ORANGE PEEL BUCKET (FOR CLEANING BASINS)	10,000.00
2 SETS OF WINCHES AND BUCKETS FOR CLEANING SEWERS	8,000.00
2 MECHANICAL RODDERS	<u>700.00</u>
	\$62,700.00

THE PUBLIC BUILDINGS SECTION SHOULD BE SET UP IN ONE LOCATION INSTEAD OF THE PRESENT THREE LOCATIONS.

THE STRINGERS ON THE PARK STREET BRIDGE SHOULD BE REPLACED.

SIDEWALKS ON ACORN STREET, CEMETERY STREET, CHARLES STREET AND WEST RIVER STREET BRIDGES SHOULD BE COMPLETELY REBUILT.

CAP STONES SHOULD BE RESET AND A NEW FENCE BUILT ALONG THE MOSHASSUCK RIVER AT CANAL STREET.

THE UNDERSIDE OF THE BRIDGE IN POST OFFICE SQUARE, MARKET SQUARE AND CRAWFORD STREET AREA SHOULD BE THOROUGHLY SCRAPED AND PAINTED.

THE UNDERSIDE OF RED BRIDGE AND MERINO BRIDGE SHOULD BE PAINTED.

ALL THE SMALL BRIDGES ON THE MOSHASSUCK AND WEST RIVERS SHOULD BE PAINTED.

RESPECTFULLY SUBMITTED,

ROBERT B. STRONG
CHIEF OF CONSTRUCTION AND MAINTENANCE DIVISION.

SANITATION DIVISION

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

DEAR SIR:

I RESPECTFULLY SUBMIT THE ANNUAL REPORT OF THE SANITATION DIVISION OF THE PUBLIC WORKS DEPARTMENT FOR THE FISCAL YEAR 1952-1953. THIS DIVISION CONSISTS OF THE FOLLOWING SECTIONS:

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

THIS REPORT CONTAINS THE EXPENDITURES AND SUMMARY OF OPERATION FOR EACH OF THE ABOVE SECTIONS.

SANITATION ADMINISTRATION

ALL THE NECESSARY CLERICAL WORK PERTAINING TO THE SEWAGE PUMPING STATION, THE REFUSE COLLECTION AND DISPOSAL AND A PORTION OF THE CLERICAL WORK PERTAINING TO THE SEWAGE DISPOSAL WORKS, IS PERFORMED IN THIS OFFICE. VARIOUS RECORDS OF ALL SECTIONS ARE MAINTAINED AND FILED FOR REFERENCE.

THE EXPENDITURES FOR THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$7470.67
ITEM 1 SERVICES OTHER THAN PERSONAL	50.65
ITEM 2 MATERIALS AND SUPPLIES	62.87
ITEM 5 CAPITAL OUTLAY	<u>1321.00</u>
TOTAL	\$8905.19

STREET CLEANING SECTION

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

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

BROADWAY, LASALLE SQUARE TO OLNEYVILLE SQUARE
WESTMINSTER STREET, EMPIRE STREET TO HOYLE SQUARE
WEYBOSSET, EMPIRE STREET TO CATHEDRAL SQUARE
BROAD STREET, EMPIRE STREET TO TRINITY SQUARE
ATWELLS AVENUE, ABORN STREET TO RAILROAD BRIDGE
POCASSET AVENUE, OLNEYVILLE SQUARE TO CITY LINE
WILLARD AVENUE, GAY STREET TO PRAIRIE AVENUE
RANDALL STREET, CHARLES STREET TO NORTH MAIN STREET
SMITH STREET, STATE HOUSE TO OAKLAND AVENUE
DOUGLAS AVENUE, ADMIRAL STREET TO MOWRY STREET
PLAINFIELD STREET, HARTFORD AVENUE TO WEBSTER AVENUE
GAY STREET, WILLARD AVENUE TO BLACKSTONE STREET
NORTH MAIN STREET, COLLEGE STREET TO MILL STREET
CHARLES STREET, RAILROAD BRIDGE TO CITY LINE

SOUTH MAIN STREET, COLLEGE STREET TO POINT STREET
 WICKENDEN STREET, EAST STREET TO IVES STREET
 IVES STREET, WICKENDEN STREET TO POWER STREET
 GOVERNOR STREET, WICKENDEN STREET TO POWER STREET
 WAYLAND AVENUE, WATERMAN STREET TO ANGELL STREET
 SOUTH ANGELL STREET, WAYLAND AVENUE TO BUTLER AVENUE
 BUTLER AVENUE, SOUTH ANGELL STREET TO WATERMAN STREET
 ANGELL STREET, BUTLER AVENUE TO WAYLAND AVENUE

THE FOLLOWING SQUARES ARE ALSO CLEANED DAILY:
 EAGLE PARK, RANDALL, WAYLAND, OLNEYVILLE, TRINITY AND WASHINGTON.

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

ALL OF THE 168 SELF-CLOSING TRASH CANS WERE EMPTIED FOUR TIMES PER DAY. AN EMERGENCY CREW WAS AVAILABLE DURING THE ENTIRE TWENTY FOUR HOURS PER DAY TO HANDLE COMPLAINTS FROM THE GENERAL PUBLIC AND TO ACT ON POLICE REPORTS.

DURING THE YEAR, 8 MECHANICAL SWEEPERS WERE IN OPERATION. THESE MACHINES OPERATE DAY AND NIGHT EXCEPT DURING THE WINTER MONTHS. A NEW MECHANICAL SWEEPER WAS PURCHASED DURING THE YEAR.

THE EXPENDITURES FOR THIS SECTION WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$280,841.90
ITEM 1 SERVICES OTHER THAN PERSONAL	7,080.43
ITEM 2 MATERIALS AND SUPPLIES	19,875.84
ITEM 5 CAPITAL OUTLAY	10,128.99
TOTAL	\$317,927.16

SEWAGE PUMPING STATIONS

THIS SECTION OPERATES AND MAINTAINS ONE MAIN PUMPING STATION AND TWO SMALL STATIONS WITHIN THE CITY. THE MAIN STATION IS SITUATED ON ERNEST STREET AND PUMPS APPROXIMATELY NINETY PER CENT OF THE SEWAGE FLOW TO THE DISPOSAL PLANT. ONE OF THE TWO SMALLER STATIONS IS SITUATED ON RESERVOIR AVENUE NEAR THE CITY LINE AND THE OTHER ONE IN HARBORSIDE PARK, FIELDS POINT. ELECTRIC POWER FOR THE TWO SMALL STATIONS IS PURCHASED FROM THE LOCAL POWER COMPANY AND THE MAIN PUMPING STATION RECEIVES POWER FROM THE GENERATORS AT THE GARDAGE INCINERATOR. THE ERNEST STREET STATION HAS A TOTAL CAPACITY OF TWO HUNDRED MILLION GALLONS PER DAY. THE TWO SMALLER STATIONS OPERATE AUTOMATICALLY AND REQUIRE ONLY DAILY INSPECTION. ALL STATIONS ARE IN OPERATION TWENTY FOUR HOURS PER DAY.

THE TOTAL MONTHLY FLOW OF SEWAGE PUMPED AT THE ERNEST STREET STATION DURING THE FISCAL YEAR IS AS FOLLOWS:

OCTOBER 1951	1494.57	MILLION GALLONS
NOVEMBER 1951	1533.52	" "
DECEMBER 1951	1615.88	" "
JANUARY 1952	1666.36	" "
FEBRUARY 1952	1510.98	" "
MARCH 1952	1633.78	" "
APRIL 1952	1482.30	" "
MAY 1952	1504.78	" "
JUNE 1952	1405.38	" "
JULY 1952	1264.06	" "
AUGUST 1952	1444.90	" "
SEPTEMBER 1952	1252.60	
TOTAL FOR YEAR	17809.11	

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

		<u>K.W.H.</u>
OCTOBER	1951	187,000
NOVEMBER	1951	152,200
DECEMBER	1951	238,300
JANUARY	1952	251,100
FEBRUARY	1952	229,600
MARCH	1952	248,000
APRIL	1952	210,200
MAY	1952	224,100
JUNE	1952	198,800
JULY	1952	177,200
AUGUST	1952	213,400
SEPTEMBER	1952	178,800
	TOTAL	<u>2,508,700</u>

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

ITEM 0	PERSONAL SERVICES	\$40,483.16
ITEM 1	SERVICES OTHER THAN PERSONAL	409.20
ITEM 2	MATERIALS AND SUPPLIES	<u>3,967.49</u>
	TOTAL	<u>\$44,859.85</u>

REFUSE COLLECTION AND DISPOSAL

THIS SECTION IS RESPONSIBLE FOR THE COLLECTION AND DISPOSAL OF ALL NON-COMBUSTIBLE REFUSE FROM THE RESIDENTIAL SECTIONS OF THE CITY ONCE A MONTH. THE CITY IS DIVIDED INTO FOUR AREAS AND EACH AREA IS SUB-DIVIDED INTO TWENTY COLLECTION ROUTES.

THESE ROUTES HAVE BEEN USED DURING THE PAST TWO YEARS AND IT IS INTENDED DURING THE NEXT FISCAL YEAR TO MAKE MINOR CHANGES IN ORDER TO MAKE THE COLLECTIONS MORE EFFICIENT.

AT THE PRESENT TIME THIS SECTION HAS EIGHT TRUCKS, EACH EQUIPPED WITH A THIRTEEN CUBIC YARD ENCLOSED BODY WHICH ARE USED FOR THE COLLECTIONS. THESE TRUCKS ARE HOUSED AND MAINTAINED AT THE SANITATION GARAGE ON KINSLEY AVENUE.

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

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

	<u>AREA I</u>	<u>AREA II</u>	<u>AREA III</u>	<u>AREA IV</u>	<u>TOTAL</u>
OCTOBER	819	1105	1248	832	4004
NOVEMBER	936	1157	1326	962	4381
DECEMBER	897	1183	1326	988	4394
JANUARY	858	1222	1404	1014	4498
FEBRUARY	962	1027	1287	1599	4875
MARCH	1027	1365	1547	1118	5057
APRIL	1027	1339	1664	1183	5213
MAY	975	1248	1495	1027	4745
JUNE	871	1248	1525	1079	4723
JULY	793	1014	1326	988	4121
AUGUST	806	1105	1378	975	4264
SEPTEMBER	806	1105	1313	949	4173
TOTAL	<u>10777</u>	<u>14118</u>	<u>16839</u>	<u>12714</u>	<u>54448</u>

THE TOTAL AMOUNT COLLECTED THIS YEAR SHOWS AN INCREASE OF APPROXIMATELY TEN PER CENT OVER LAST YEAR. THE INCREASES FOR EACH AREA WERE AS FOLLOWS:

AREA	CU. YDS. 1950-51	CU. YDS. 1951-52	CU. YDS. INCREASE	PER CENT. INCREASE
I	9605	10777	1172	12.2
II	13254	14118	864	6.5
III	15804	16839	1035	6.6
IV	10686	12714	2028	19.9
TOTALS	49309	54448	5099	10.3

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

ITEM 0 PERSONAL SERVICES	\$75948.56
ITEM 1 SERVICES OTHER THAN PERSONAL	926.87
ITEM 2 MATERIALS AND SUPPLIES	<u>9231.22</u>
TOTAL	\$86106.65

SEWAGE DISPOSAL WORKS

THIS SECTION TREATS AND DISPOSES OF ALL THE SEWAGE FROM THE CITY OF PROVIDENCE, THE TOWN OF NORTH PROVIDENCE, A PORTION OF THE CITY OF PAWTUCKET, AND THE WASTES FROM THE NARRAGANSETT BREWING COMPANY OF CRANSTON, R.I. THE DISPOSAL PLANT IS LOCATED IN THE SOUTHEASTERN SECTION OF THE CITY NEAR THE MUNICIPAL WHARF AT FIELDS POINT.

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

ESTIMATED POPULATION SERVED BY PLANT:

PROVIDENCE	245,000
PAWTUCKET	10,000
NORTH PROVIDENCE	<u>6,000</u>
TOTAL CONNECTED POPULATION	261,000

SEWAGE FLOW

PROVIDENCE	17180.82 M.G.
PAWTUCKET	400.00 M.G.
NORTH PROVIDENCE	1915.08 M.G.
CRANSTON (NARRAGANSETT BREWING COMPANY)	<u>64.21 M.G.</u>
TOTAL SEWAGE FLOW	19560.11 M.G.

SUMMARY OF OPERATION:

TOTAL FLOW OF SEWAGE	19560.11 M.G.
AVERAGE DAILY FLOW	53.58 M.G.
MAXIMUM DAILY FLOW (MAR. 10, 1952)	121.41 M.G.
MINIMUM DAILY FLOW (AUG. 24, 1952)	20.29 M.G.
TOTAL AIR USED FOR AERATION	6807.90 M.C.F.
CALCIUM HYPOCHLORITE USED	8773290 LBS.
CHLORINE AS HYPOCHLORITE	342.5 TONS
LIQUID CHLORINE	52.0 TONS
TOTAL CHLORINE USED	394.5 TONS
FERRIC CHLORIDE USED	88.06 TONS
LIME	249.65 TONS
GRIT AND SCREEN REMOVALS	5047.9 TONS
SLUDGE INCINERATED	7254.2 TONS
ASH REMOVED FROM INCINERATOR	1340.5 TONS

FUEL OIL USED IN INCINERATOR	92076 GALS.
TOTAL POWER CONSUMED	3318900 K.W.H.
DAILY AVERAGE POWER	909.2 K.W.H.

ALL THE POWER USED AT THE DISPOSAL PLANT WAS FURNISHED BY THE GENERATORS AT THE GARBAGE INCINERATOR. POWER CONSUMED MONTHLY WAS AS FOLLOWS:

1951	K.W.H.
OCTOBER	375200
NOVEMBER	212400
DECEMBER	303400
1952	
JANUARY	254900
FEBRUARY	245100
MARCH	286700
APRIL	218800
MAY	172300
JUNE	314700
JULY	319800
AUGUST	356900
SEPTEMBER	<u>258700</u>
TOTAL	3318900

THE EXPENDITURES FOR THE YEAR WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$85940.08
ITEM 1 SERVICES OTHER THAN PERSONAL	6841.98
ITEM 2 MATERIALS AND SUPPLIES	100445.36
ITEM 5 CAPITAL OUTLAY	<u>333.00</u>
TOTAL	\$193560.42

DURING THE YEAR THE PLANT PERSONNEL ASSISTED IN EVERY WAY POSSIBLE WITH THE ENGINEERING FIRM OF METCALF AND EDDY IN THEIR SURVEY AND STUDY OF THE SEWAGE DISPOSAL WORKS. THEIR FINAL REPORT SHOWS THE NEED OF IMMEDIATE ENLARGEMENT OF THE PLANT AND THE NEED OF REPLACING THE EXISTING MECHANICAL EQUIPMENT OF THE TREATMENT SECTION OF THE PLANT.

DURING THE STUDY OF THE TREATMENT PLANT BY METCALF AND EDDY, THE BIOSORPTION PROCESS WAS USED AS A METHOD OF TREATMENT AS WELL AS THE CONVENTIONAL ACTIVATED SLUDGE PROCESS. AT THE PRESENT TIME THE PLANT IS OPERATING AS A HIGH RATE ACTIVATED SLUDGE PLANT. TESTS ARE BEING MADE ON A PORTION OF THE FLOW AND RESULTS ARE BEING TABULATED FOR USE BY THE CONSULTING ENGINEERS.

THE SLUDGE DISPOSAL SECTION OF THE PLANT HAS BEEN IN FULL OPERATION DURING THE YEAR AND IS FULLY CAPABLE OF HANDLING ALL SLUDGE PRODUCED FROM THE PROPOSED ENLARGED TREATMENT PLANT AS NOTED IN METCALF AND EDDY'S REPORT.

THE CHLORINIZORS, INSTALLED BY BUILDERS PROVIDENCE, AS A GASEOUS FEED TYPE, WERE CONVERTED TO A SOLUTION FEED TO PREVENT THE LEAKAGE OF CHLORINE GAS FROM THE EFFLUENT.

PLANT PERSONNEL WORKING WITH ENGINEERS FROM BUILDERS PROVIDENCE INSTALLED A NEW DEVICE TO DISTRIBUTE THE SLUDGE CAKE EVENLY ON THE FEED BELT TO THE SLUDGE INCINERATOR. THIS GREATLY INCREASED THE ACCURACY OF THE WEIGHING MECHANISM AND ALSO RESULTED IN A MORE EVEN FEED OF SLUDGE TO THE INCINERATOR.

GARBAGE COLLECTION AND DISPOSAL

THIS SECTION IS CHARGED WITH THE COLLECTION AND DISPOSAL OF DOMESTIC GARBAGE AND COMBUSTIBLE RUBBISH, THE DISPOSAL OF COMMERCIAL COMBUSTIBLE RUBBISH, AND THE GENERATION OF ELECTRIC POWER FOR THE OPERATION OF THE SEWAGE DISPOSAL WORKS AND THE MAIN SEWAGE PUMPING STATION.

DOMESTIC GARBAGE IS COLLECTED FROM RESIDENTIAL SECTIONS OF THE CITY TWICE EACH WEEK. A FLEET OF TWENTY TWO TRUCKS WITH SPECIAL BODIES FOR THIS WORK IS USED IN MAKING THE COLLECTIONS. ONE DRIVER AND TWO LABORERS ARE ASSIGNED TO EACH TRUCK. THE TRUCKS ARE SERVICED AND REPAIRED AT THE SANITATION GARAGE ON KINSLEY AVENUE. THE MATERIAL COLLECTED IS DISPOSED OF IN THE INCINERATOR AT FIELDS POINT. THERE ARE TWO FURNACE UNITS EACH WITH A CAPACITY OF 160 TONS PER DAY. HEAT FROM THE COMBUSTION CHAMBERS IS PUT THROUGH WASTE HEAT BOILERS AND THE STEAM PRODUCED IS USED TO DRIVE THE WESTINGHOUSE TURBO-GENERATOR. THERE ARE TWO GENERATORS EACH WITH A CAPACITY OF 1250 K.W. BOTH THE INCINERATOR AND POWER PLANT IS IN OPERATION TWENTY FOUR HOURS PER DAY.

THE FOLLOWING TABLE SHOWS THE POWER PRODUCED AND DISTRIBUTED DURING THE PAST YEAR:

	SEWAGE DISPOSAL	SEWAGE PUMPING	STATION POWER
1951			
OCTOBER	375200 K.W.H.	187000 K.W.H.	80800 K.W.H.
NOVEMBER	212400 K.W.H.	152200 K.W.H.	77400 K.W.H.
DECEMBER	303400 K.W.H.	238300 K.W.H.	93300 K.W.H.
1952			
JANUARY	254900 K.W.H.	251000 K.W.H.	89100 K.W.H.
FEBRUARY	245100 K.W.H.	229600 K.W.H.	85300 K.W.H.
MARCH	286700 K.W.H.	248000 K.W.H.	89300 K.W.H.
APRIL	218800 K.W.H.	210200 K.W.H.	84000 K.W.H.
MAY	172300 K.W.H.	224100 K.W.H.	85600 K.W.H.
JUNE	314700 K.W.H.	198800 K.W.H.	81000 K.W.H.
JULY	319800 K.W.H.	177300 K.W.H.	80000 K.W.H.
AUGUST	356900 K.W.H.	213400 K.W.H.	80100 K.W.H.
SEPTEMBER	258700 K.W.H.	178800 K.W.H.	77500 K.W.H.
TOTAL	3318900 K.W.H.	2508700 K.W.H.	1003400 K.W.H.
TOTAL POWER GENERATED			6831000 K.W.H.
AVERAGE DAILY DISTRIBUTED LOAD			18715 K.W.H.
AVERAGE DAILY DISTRIBUTED LOAD TO SEWAGE DISPOSAL PLANT			9093 K.W.H.
AVERAGE DAILY DISTRIBUTED LOAD TO PUMPING STATION			6873 K.W.H.
AVERAGE DAILY DISTRIBUTED LOAD USED AT INCINERATOR			2749 K.W.H.

THE MONTHLY TOTALS OF GARBAGE AND RUBBISH RECEIVED AT THE INCINERATOR DURING THE YEAR WERE AS FOLLOWS:

	<u>GARBAGE</u>	<u>RUBBISH</u> <u>(ESTIMATED)</u>
1951		
OCTOBER	2893.65 TONS	1480.0 TONS
NOVEMBER	2694.35 TONS	1618.0 TONS
DECEMBER	3024.75 TONS	1624.0 TONS
1952		
JANUARY	3089.0 TONS	1643.0 TONS
FEBRUARY	2740.60 TONS	1484.0 TONS
MARCH	2822.80 TONS	1616.0 TONS
APRIL	2749.90 TONS	1558.0 TONS
MAY	2719.55 TONS	1524.0 TONS
JUNE	2740.10 TONS	1457.0 TONS
JULY	3133.90 TONS	1471.0 TONS
AUGUST	2783.20 TONS	1470.0 TONS
SEPTEMBER	<u>2983.20 TONS</u>	<u>1443.0 TONS</u>
TOTALS	34375.00 TONS	18388.0 TONS
COMBINED TOTAL	52763.00 TONS	

DAILY AVERAGE FOR COLLECTION BASED ON 313 WORKING DAYS.

GARBAGE	109.8	TONS
RUBBISH	<u>58.7</u>	TONS
TOTAL	168.5	TONS

DAILY AVERAGE FOR DISPOSAL BASED ON 365 WORKING DAYS.

GARBAGE	94.1	TONS
RUBBISH	<u>50.4</u>	TONS
TOTAL	144.5	TONS

DURING THE FISCAL YEAR, 67,500 GALLONS OF NO. 6 FUEL OIL WERE USED TO MAINTAIN THE STEAM PRESSURE IN TIMES OF EMERGENCY OR MECHANICAL BREAK-DOWN.

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

1951	TONS
OCTOBER	497.35
NOVEMBER	483.40
DECEMBER	504.45
1952	
JANUARY	550.85
FEBRUARY	508.30
MARCH	521.80
APRIL	517.50
MAY	512.70
JUNE	479.65
JULY	539.90
AUGUST	538.15
SEPTEMBER	<u>555.65</u>
TOTAL	6209.70

EXPENDITURES FOR THE YEAR WERE AS FOLLOWS:

ITEM 0 PERSONAL SERVICES	\$432,893.01
ITEM 1 SERVICES OTHER THAN PERSONAL	21,781.62
ITEM 2 MATERIALS AND SUPPLIES	42,736.30
ITEM 5 CAPITAL OUTLAY	<u>1,872.01</u>
TOTAL	\$499,282.94

THE FOLLOWING IS A SUMMARY OF REPAIR WORK PERFORMED BY INCINERATOR EMPLOYEES ON BOTH UNITS DURING THE FISCAL YEAR:

SIX DAMPER GATES WERE BUILT AND INSTALLED IN BOTH UNITS. A TOTAL OF 1800 FIRE BRICKS, THREE TONS OF FURNACE-CRETE AND 200 FEET OF HALF INCH IRON ROD WAS USED IN MAKING THE DAMPER GATES.

BRIDGE WALLS IN BOTH UNITS WERE REBUILT.

EIGHT NEW CHARGING DOORS WERE MADE AND INSTALLED AND A COMPLETE NEW SET OF WHEELS AND AXLES WERE INSTALLED IN THE CHARGING DOORS OF THE NO. 1 UNIT.

AIR COMPRESSOR IN NO. 1 UNIT WAS COMPLETELY OVERHAULED AND RECONDITIONED.

TWO MASTER VALVES WERE INSTALLED IN SOOT BLOWERS OF NO. 1 UNIT.

NEW SET OF DASH POTS WERE PURCHASED AND INSTALLED ON THE CRANE OF NO. 1 UNIT. THIS MAKES THEM THE SAME TYPE AS IN NO. 2 UNIT AND MAY BE INTERCHANGED WHEN NECESSARY.

IT HAS BEEN NECESSARY TO REPAIR THE ASH CONVEYOR FREQUENTLY DURING THE YEAR. BOTH THE CHAIN AND FLIGHTS AS WELL AS THE STEEL FRAME WORK HAVE BEEN REPAIRED.

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

STREET CLEANING	20.00
REFUSE COLLECTION AND DISPOSAL	15.00
SEWAGE DISPOSAL	990.83
SEWAGE PUMPING	136.92
GARBAGE COLLECTION AND DISPOSAL	<u>13784.83</u>
TOTAL	\$14947.58

RECOMMENDATIONS

THE NO. 1 UNIT OF THE GARBAGE INCINERATOR SHOULD BE COMPLETELY RECONDITIONED, INCLUDING BOILERS, COMBUSTION CHAMBER LINING, ASH CONVEYOR, ASH HOPPER, SLAG HOPPER, CRANE AND STACKS.

A HIGH WIRE FENCE SHOULD BE ERECTED BETWEEN THE INCINERATOR AND THE RICHFIELD OIL COMPANY TO PREVENT PAPERS FROM BLOWING ON THEIR LAND AND CREATING A POTENTIAL FIRE HAZARD. THE PIT OF THE NEW UNIT IS ALMOST ON THE PROPERTY LINE AND IT IS IMPOSSIBLE TO PREVENT THIS UNDER THE EXISTING CONDITIONS.

THE GARBAGE INCINERATOR SHOULD HAVE A CONNECTION TO THE MAIN ON TERMINAL ROAD. THE PRESENT AND ONLY CONNECTION IS WITH THE MAIN ON ERNEST STREET. IF A BREAK SHOULD OCCUR IN THE ERNEST STREET LINE, THE INCINERATOR WILL BE WITHOUT A SOURCE OF SUPPLY.

AT THE PRESENT TIME, THERE IS ONLY ONE PUMP ON THE COOLING WATER CIRCUIT AT THE INCINERATOR AND IF THIS FAILS AN EMERGENCY HOOK-UP HAS TO BE MADE TO THE CITY WATER SUPPLY. ANOTHER PUMP OF THE SAME CAPACITY SHOULD BE INSTALLED IN THE COOLING WATER CIRCUIT AND

IMPROVEMENTS SHOULD BE MADE TO THE TREATMENT SECTION OF THE SEWAGE DISPOSAL WORKS IN ACCORDANCE WITH THE RECOMMENDATIONS MADE BY METCALF AND EDDY, CONSULTING ENGINEERS.

THE MAIN DAMPER OF THE SLUDGE INCINERATOR SHOULD BE CONVERTED FROM HAND OPERATED TO MECHANICALLY OPERATED. IT IS NECESSARY FOR THE OPERATOR AT THE PRESENT TIME TO GO TO THE FOURTH FLOOR TO OPERATE THE DAMPER. THIS SHOULD BE DONE ON THE FIRST FLOOR, WHERE ALL THE OTHER CONTROLS ARE LOCATED.

VENTILATION OF THE LIME ROOM IN THE FILTER BUILDING SHOULD BE CONSIDERED. THIS ROOM HAS NO OUTSIDE VENTILATION AND WHEN FEEDING LIME TO THE LIME HOPPERS THE MEN ARE SUBJECTED TO LIME DUST. GAS MASKS HAVE BEEN TRIED BUT ARE NOT SATISFACTORY.

RESPECTFULLY SUBMITTED,

HOWARD F. CARPENTER
CHIEF, SANITATION DIVISION.

PUBLIC SERVICE DIVISION

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

DEAR SIR:

I RESPECTFULLY SUBMIT THE FOLLOWING REPORT OF THE REVENUE, EXPENDITURES AND OPERATION OF THE PUBLIC SERVICE DIVISION FOR THE FISCAL YEAR 1951-1952.

ADMINISTRATION

LICENSES FOR BOILER OPERATORS, OPERATING ENGINEERS AND REFRIGERATING MACHINE OPERATORS
(TOTAL OF RENEWALS AND NEW LICENSES)

\$3,926.00

	<u>NEW LICENSES</u>	<u>RENEWALS</u>
BOILER OPERATORS	84	828
OPERATING ENGINEERS	44	743
REFRIGERATING SYSTEM OPERATORS	8	56
PERMITS	53	

EXPENDITURES

ITEM 0 PERSONAL SERVICES	\$15,929.60
ITEM 1 SERVICES OTHER THAN PERSONAL	539.76
ITEM 2 MATERIALS AND SUPPLIES	187.90
ITEM 5 CAPITAL OUTLAY	298.59
TOTAL	<u>\$16,955.85</u>

ELECTRIC AND GAS STRUCTURES IN THE STREETS OF THE CITY OF PROVIDENCE AS OF SEPTEMBER 30, 1952.

FOLLOWING IS AN INVENTORY OF THE GAS AND ELECTRIC STRUCTURES IN THE STREETS OF THE CITY, AS COMPILED FROM DETAILS FURNISHED BY THE VARIOUS COMPANIES, OR DEPARTMENTS OWNING OR OPERATING SUCH EQUIPMENT IN THE STREETS OF THE CITY.

PROVIDENCE GAS COMPANY

TOTAL GAS SERVICES IN PROVIDENCE	39,135
MILES OF MAIN	395.58
GAS HOLDERS	4
NUMBER OF METERS (ACTIVE)	67,656

WESTERN UNION TELEGRAPH

CITY PLANT, PROVIDENCE, R.I.

NUMBER OF POLES OWNED.....	NONE
NUMBER OF POLES JOINTLY OWNED.....	NONE
NUMBER OF FEET U.G. CONDUIT (TRENCH FT.).....	1109'
NUMBER OF FEET U.G. CONDUIT.....	1954'
NUMBER OF MILES U.G. CABLE.....	.803
NUMBER OF MILES OF WIRE IN U.G. CABLE.....	73.06
NUMBER OF FEET OF SINGLE COPPER WIRE - LINE.....	NONE
(A) ON LICENSED ATTACHMENT PRIVILEGED TO PURCHASE POLES OF OTHER COMPANIES.....	1740'

NUMBER OF FEET OF TWISTED PAIR:
 (A) ON LICENSED ATTACHMENTS PRIVILEGED TO PURCHASE POLES OF
 OTHER COMPANIES.....6878'
 (B) ACROSS STREETS..... 500'
 (C) OVER PRIVATE ALLEYS.....1625'
 MANHOLES OWNED.....2

NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY

TOTAL NUMBER OF WOOD POLES (INCLUDING JOINTLY USED, BUT NOT INCLUDING
 THOSE JOINTLY USED WITH NO OWNERSHIP).....15777
 TOTAL NUMBER OF JOINTLY OWNED POLES WITH N.E.COMPANY.....12289
 TOTAL NUMBER OF JOINTLY OWNED POLES WITH U.T.COMPANY..... 1180
 TOTAL NUMBER OF JOINTLY OWNED POLES WITH W.U.T.COMPANY..... 0
 TOTAL NUMBER OF JOINTLY OWNED POLES WITH ANY OTHER..... 807
 TOTAL NUMBER MILES MAIN CONDUIT (TRENCH FT.)..... 55.08
 TOTAL NUMBER MILES U.G. CABLE..... 220.93
 TOTAL NUMBER MILES AERIAL CABLE..... 203.97
 TOTAL WOOD TERMINAL BOXES ON POLES..... 225
 APPROXIMATE NUMBER TELEPHONES SUPPLIED DIRECTLY BY UNDERGROUND
 OR BLOCK DISTRIBUTION..... 46472
 APPROXIMATE NUMBER TELEPHONES SUPPLIED DIRECTLY BY OVERHEAD LINES
 ON HIGHWAY..... 39368

DEPARTMENT OF PUBLIC SAFETY

	DOORS					
	TOTAL	AERIAL	U.G.	QUICK ACTION	KEY	KEYLESS
FIRE ALARM BOXES OWNED BY CITY	877	515	362	851	13	13
PRIVATELY OWNED	629	367	262	629	0	0
POLICE BOXES	248	148	100	222	13	13
	166	103	63			
TOTAL NUMBER OF ALL BOX AND CABLE PEDESTALS.....						331
TOTAL NUMBER OF ALL FIRE ALARM BOX PEDESTALS.....						226
TOTAL NUMBER OF ALL POLICE BOX PEDESTALS.....						070
TOTAL NUMBER OF ALL CABLE PEDESTALS ONLY.....						035
TOTAL NUMBER OF MILES OF UNDERGROUND CABLE.....						84.6
TOTAL NUMBER OF MILES OF PARKWAY CABLE.....						1.47
TOTAL NUMBER OF MILES OF AERIAL CABLE.....						4.35
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR - UNDERGROUND.....						1272.20
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR - PARKWAY.....						6.24
TOTAL NUMBER OF MILES OF EQUIVALENT SINGLE CONDUCTOR - AERIAL.....						63.79
TOTAL NUMBER OF MILES OF SINGLE CONDUCTOR FIRE ALARM BOX CIRCUIT WIRE - AERIAL.....						122.6
TOTAL NUMBER OF MILES OF THREE CONDUCTOR POLICE BOX CIRCUIT WIRE - AERIAL.....						53.4
TOTAL NUMBER OF " " POLES OWNED BY THE FIRE DEPARTMENT.....						11
TOTAL FOOTAGE OF ALL UNDERGROUND DUCTS AND LATERALS OWNED BY THE FIRE DEPARTMENT.....						3545.6

NARRAGANSETT ELECTRIC COMPANY

TOTAL NUMBER OF WOOD POLES (INCLUDING JOINTLY OWNED BUT NOT INCLUDING JOINTLY USED, WITH NO OWNERSHIP).....		18,632
TOTAL NUMBER JOINTLY OWNED POLES WITH N.E.T. & T. CO.....		12,289
TOTAL NUMBER JOINTLY OWNED POLES WITH U.T.COMPANY.....		1,797
TOTAL NUMBER JOINTLY OWNED POLES WITH W.U.T.COMPANY.....		-
TOTAL NUMBER JOINTLY OWNED POLES WITH N.E.T & U.E.R.....		807
TOTAL NUMBER JOINTLY OWNED POLES WITH U.T.CO. & W.U.T.....		-
TOTAL NUMBER JOINTLY OWNED POLES WITH N.E.T. & W.U.T.....		-
 TOTAL NUMBER IRON POLES		4,246
UNDERGROUND STREET LIGHT STANDARDS	2,030	
ORNAMENTAL ARCS	124	
ORNAMENTAL INCANDESCENTS (MERCURY VAPOR)	1,895	
GOOSE NECKS	11	
ORNAMENTAL INCANDESCENTS WITH U.T.CO.	147	
IRON POLES WITH U.T.CO. & N.E.T & T. CO.	3	
IRON POLES WITH N.E.T. & T. CO.	-	
IRON POLES WITH U.T.CO.	36	
 TOTAL NUMBER MILES CONDUIT (TRENCH FT.)		82,99
TOTAL NUMBER MILES CONDUIT (DUCT FT.)		690,55
TOTAL NUMBER MILES UNDERGROUND CABLE		662,69
TOTAL NUMBER MILES EQUIVALENT SINGLE U.G.CONDUCTOR		1279,11
TOTAL NUMBER MILES AERIAL CABLE		183,3
TOTAL NUMBER MILES EQUIVALENT SINGLE CONDUCTOR AERIAL CABLE		546,38
TOTAL NUMBER MILES AERIAL OPEN WIRE		3796,10
TOTAL NUMBER MILES SERVICE PIPES OR LATERALS		7,17
TOTAL NUMBER COMMERCIAL TRANSFORMERS		4390
TOTAL NUMBER CUSTOMERS SUPPLIED DIRECTLY U.G. CONNECTION		27804
TOTAL NUMBER CUSTOMERS SUPPLIED DIRECTLY O.H. CONNECTION		59120
TOTAL NUMBER METERS INSTALLED		86924
 APPROXIMATE TOTAL NUMBER OF 1 ϕ 2 WIRE 115 VOLT METERS		67371
APPROXIMATE TOTAL NUMBER OF 1 ϕ 3 WIRE 115/250 VOLT METERS		13670
APPROXIMATE TOTAL NUMBER OF 1 ϕ 2 WIRE 250 VOLT METERS		0
APPROXIMATE TOTAL NUMBER OF 1 ϕ 5 WIRE 250/500 VOLT METERS		0
APPROXIMATE TOTAL NUMBER OF 3 ϕ 3 WIRE 115 VOLT METERS		24
APPROXIMATE TOTAL NUMBER OF 3 ϕ 3 WIRE 250 VOLT METERS		267
TOTAL NUMBER OF 3 ϕ 4 WIRE 120/208 VOLT METERS		1534
TOTAL NUMBER OF 1 ϕ 3 WIRE 120/208 VOLT METERS		2238
TOTAL NUMBER OF DIRECT CURRENT 2 WIRE AND 3 WIRE 250 AND 250/500 VOLTMETERS		169
 APPROXIMATE TOTAL NUMBER OF 3 ϕ 3 WIRE 575 VOLT METERS		1651

UNITED TRANSIT COMPANY

TOTAL NUMBER WOOD POLES (INCLUDING JOINTLY USED, BUT NOT INCLUDING THOSE JOINTLY USED WITH NO OWNERSHIP)	5142
TOTAL NUMBER OF JOINTLY OWNED POLES WITH N.E.CO.	1797
TOTAL NUMBER OF JOINTLY OWNED POLES WITH N.E.T & T.	1180
TOTAL NUMBER OF JOINTLY OWNED POLES WITH W.U.T.	0
TOTAL NUMBER OF JOINTLY OWNED POLES WITH W.U.T., U.T.CO., N.E.CO.	0
TOTAL NUMBER OF JOINTLY OWNED POLES WITH N.E.T. & T. & N.E.	807
TOTAL NUMBER SIGNALS AUTOMATIC (5 SETS OR 10 $\frac{1}{2}$ BLOCKS)	0
TOTAL NUMBER SIGNALS HAND THROWN	0
TOTAL NUMBER SIGNALS TELLTALE	0
TOTAL NUMBER SIGNALS TRAFFIC	0
TOTAL MILES SINGLE AERIAL CONDUCTOR (EXCLUDING TROLLEY CONTACT WIRE)	
NUMBER 10 SIGNAL AND TELEPHONE WIRE	33.89 MI
NUMBER 14 TWISTED PAIR TELEPHONE WIRE	0
NUMBER 1/0 FEEDER WIRE	0
NUMBER 2/0 FEEDER WIRE	3.60 MI.
NUMBER 4/0 FEEDER WIRE	1.30 MI.
250,000 C.M. FEEDER WIRE	5.67 MI.
300,000 C.M. FEEDER WIRE	4.00 MI.
350,000 C.M. FEEDER WIRE	1.79 MI.
500,000 C.M. FEEDER WIRE	96.33 MI.
1,000,000 C.M. FEEDER WIRE	7.08 MI.
TOTAL MILES OF STREET CAR TROLLEY WIRE (EXCLUDING TROLLEY-BUS WIRE)	0
TOTAL MILES OF TROLLEY-BUS WIRE-POSITIVE	108.48 MI.
TOTAL MILES OF TROLLEY-BUS WIRE-NEGATIVE	108.48 MI.
TOTAL NUMBER MILES DOUBLE TRACK IN USE (SINGLE TRACK LENGTH)	0
TOTAL NUMBER MILES SINGLE TRACK IN USE	0
TOTAL NUMBER OF CROSS-OVERS NOT IN USE	3
TOTAL NUMBER OF TURNOUTS (300 FT. OR LESS) NOT IN USE	1
TOTAL NUMBER OF IRON POLES	2269

ELECTRICAL INSPECTION

A SUMMARY OF THE WORK DONE BY THE ELECTRICAL INSPECTION DEPARTMENT DURING THE PAST YEAR FOLLOWS:

NUMBER OF ROUGH WIRING INSPECTIONS	1100
NUMBER OF DEFECTIVE NOTICES	1738
NUMBER OF PERMITS ISSUED	5334
NUMBER OF INSPECTIONS AFTER FIRE	1365

NUMBER OF INVESTIGATIONS REQUESTED BY THE NARRAGANSETT ELECTRIC COMPANY AND THE PROVIDENCE FIRE DEPARTMENT	100
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NUMBER OF SPECIAL INVESTIGATIONS	2259
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NUMBER OF RE-INSPECTIONS	<u>1234</u>
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TOTAL NUMBER OF INSPECTIONS	13130
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LETTERS TO OWNERS	1000
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NUMBER OF DISCONNECTS	110
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NOTE: FIFTEEN (15) REQUESTS FOR SPECIAL PERMISSION WERE GRANTED DURING THE YEAR.

SIGN APPLICATIONS APPROVED.

THE NUMBER OF APPLICATIONS FOR PERMISSION TO ERECT ILLUMINATED AND NON-ILLUMINATED SIGNS, IN ACCORDANCE WITH THE CITY OF PROVIDENCE ORDINANCES COVERING SUCH OUTDOOR ADVERTISING, WHICH APPLICATIONS HAVE BEEN APPROVED BY THIS OFFICE DURING THE YEAR ENDING SEPTEMBER 30, 1952 FOLLOWS:

<u>ILLUMINATED</u>	<u>NON-ILLUMINATED</u>	<u>TOTAL</u>
<u>SIGNS</u>		
183	46	229

EXPENDITURES

ITEM 0 PERSONAL SERVICES	\$16,012.60
ITEM 1 SERVICES OTHER THAN PERSONAL	973.99
ITEM 2 MATERIALS AND SUPPLIES	689.05
ITEM 5 CAPITAL OUTLAY	<u>1,165.00</u>
	\$18,840.64

STREET LIGHTING SECTION

STREET LIGHTING COSTS

THE TOTAL EXPENDITURES FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1952, FOR STREET, BRIDGE, SUBWAY, AND PARK LIGHTING BILLS, CONTRACTED IN THE MONTH STATED, LESS ALL CREDITS FOR OUTAGE, HAVE BEEN AS FOLLOWS:

1951-1952 APPROPRIATION - \$420,000.00

INCANDESCENTS

<u>1951</u>	<u>TOTAL BILL</u>	<u>LESS OUTAGE</u>	<u>NET COST</u>
OCTOBER	\$28,503.04	\$201.35	\$28,301.69
NOVEMBER	28,769.23	223.19	28,546.04
DECEMBER	29,144.32	174.20	28,970.12
<u>1952</u>			
JANUARY	29,786.20	181.16	29,605.04
FEBRUARY	29,973.99	157.82	29,816.17
MARCH	29,998.43	155.03	29,843.40
APRIL	30,271.41	145.30	30,126.11
MAY	30,839.57	95.11	30,744.46
JUNE	31,007.90	80.04	30,927.86
JULY	31,317.29	95.86	31,221.43
AUGUST	31,451.82	92.09	31,359.73
SEPTEMBER	<u>32,351.27</u>	<u>114.92</u>	<u>32,236.35</u>
	\$363,414.47	\$1,716.07	\$361,698.40

ARC LIGHTS

<u>1951</u>	<u>TOTAL BILL</u>	<u>LESS OUTAGE</u>	<u>NET COST</u>
OCTOBER	\$2,079.63	\$51.09	\$2,028.54
NOVEMBER	1,892.17	89.90	1,802.27
DECEMBER	1,737.56	92.31	1,645.25
<u>1952</u>			
JANUARY	1,456.68	79.22	1,377.46
FEBRUARY	1,438.99	41.25	1,397.74
MARCH	1,446.13	34.95	1,411.18
APRIL	1,265.74	20.01	1,245.73
MAY	1,053.09	17.09	1,036.00
JUNE	1,007.51	30.10	977.41
JULY	867.22	21.92	845.30
AUGUST	870.58	19.57	851.01
SEPTEMBER	870.58	24.40	846.18
	<u>\$15,985.88</u>	<u>\$521.81</u>	<u>\$15,464.07</u>

RECAPITULATION

TOTAL COSTS (NET)	<u>INCANDESCENTS</u>	<u>ARCS</u>	<u>GRAND TOTAL</u>
	\$361,698.40	\$15,464.07	\$377,162.47
TOTAL MONTHLY AVERAGE COST 1950-1951		\$30,028.38	
TOTAL MONTHLY AVERAGE COST 1951-1952		\$31,430.20	
INCREASE FROM PREVIOUS YEAR OF THE TOTAL COSTS OF STREET LIGHTING.		\$16,821.80	
TOTAL SAVINGS IN OUTAGES		2,237.88	
ARC LIGHT ADJUSTMENT CREDIT		2,718.02	

SCHEDULE OF STREET LIGHTING DATA

	ARCS				O.H. A.N.		1000 CP.		O.H. A.N.
	U.G.	O.H.	3 LT.CL.	750 W	500 CP	U.G. A.N.	U.G.	H.N.	
OCT. 1, 1951	278	20	0	9	29	449	3		108
SEPT. 30, 1952	124	0	0	0	29	482	3		80
CHANGES	154	0	0	0	0	33	0		28

	U.G. INCANDESCENT CLUSTERS				MER.	MERC.	MER.	1000 CP.	SODIUM LIGHTS		
	2 LT.CL.	3 LT.CL.	5 LT.CL.	2 LT.	VAP.	O.H.	A.N.	U.G.	A.N.	O.H.	A.N.
	A.N.	H.N.	A.N.	H.N.	AN	UG	U.G.				
OCT. 1, 1951	2-A	2	4	1	1	0	1222	629	22		3
SEPT 30, 1952	2-A	2	4	1	1	6	1339	965	22		2
CHANGES	0	0	0	0	0	6	117	336	0		0

	100 CP.		U.G.	100 CP.		O.H.	MERC.	VAP	A.N.	A.N.	O.H.	A.N.	U.G.
	A.N.	U.G.	H.N.	A.N.	H.N.	24 HR.	U.G.		300W	250 CP.	400 CP.		
OCT. 1, 1951	184		252	8276-B	19	0	0	0	0	162		14	
SEPT 30, 1952	178		232	8229	19	44	0	0	0	226		8	
CHANGES	6		0	47	0	0	0	0	0	64		6	

TOTAL NUMBER EQUIVALENT SINGLE INCANDESCENT LIGHTS	SEPTEMBER 30, 1952	1954	CHANGES	8
TOTAL NUMBER EQUIVALENT SINGLE ARC LIGHTS	SEPTEMBER 30, 1952	124		174
TOTAL NUMBER MERCURY LIGHTS	SEPTEMBER 30, 1952	2316		461
TOTAL NUMBER EQUIVALENT SINGLE SODIUM LIGHTS	SEPTEMBER 30, 1952	25		

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

A - INCLUDES TWO 2 LIGHT CLUSTERS AT THE THAYER STREET ENTRANCE TO THE TUNNEL, ONE OF WHICH IS CHARGED TO THE UNITED TRANSIT COMPANY.

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

NUMBER AND KIND OF STREET LIGHTING UNITS IN SERVICE IN PROVIDENCE SINCE 1920

YEAR	ARCS		INCANDESCENTS					SODIUM MERCURY		
	6.6A LUM.	5.5.A 100 CP.	250 CP.	400 CP.	750W	300W	1000 CP.	600 CP.	1000 C.P.	400W
1920	1582									
1921	1582									
1922	1589									
1923	1612									
1924	1630									
1925	1631									
1926	1635									
1927	1717									
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

STREET LIGHTING UNIT COSTS

UNDER THE PROVISIONS OF SECTION 17 OF THE EXISTING CONTRACT FOR STREET LIGHTS - THIS BEING THE SO-CALLED "FUEL CLAUSE", THE COST OF THE STREET LIGHTS FOR THE YEAR BEGINNING OCTOBER 1, 1952, DEPENDED UPON THE COST OF FUEL FOR THE YEAR ENDING JULY 31, 1952. THIS COST AVERAGED \$11.73, AND RESULTED IN AN INCREASE IN COST OVER THAT OF THE PREVIOUS YEAR. A TABULATION SHOWING THE UNIT PRICES FOR THE YEAR BEGINNING OCTOBER 1, 1952, IS AS FOLLOWS:

	ANNUAL INCREASE PER 10¢ INCREASE		NO. OF 10¢ ABOVE \$8.00 BASE FUEL PRICE	INCREASE OVER BASE PRICE	BASE PRICE	NEW PRICE
	IN COST OF FUEL ABOVE \$8.00 BASE					
<u>ARC LAMPS</u>						
UNDERGROUND SINGLE	.17		37	6.29	\$87.69	\$93.98
AERIAL	.17		37	6.29	65.43	71.72
U.G. 3 LIGHT CLUSTERS INCANDESCENT 100 C.P.	.51		37	18.87	215.83	234.70
U.G. SINGLE A.N.	.025		37	.93	28.03	28.96
U.G. 2 LT. CLUSTER A.N.	.05		37	1.85	37.57	39.42
U.G. 5 LT.	.125		37	4.63	66.02	70.65
U.G. SINGLE 1/2 NIGHT	.012		37	.44	24.61	25.15
U.G. 2 LT. " "	.024		37	.89	30.72	31.61
U.G. 3 LT. " "	.036		37	1.33	37.33	38.66
U.G. 5 LT. " "	.06		37	2.22	48.99	51.11
AERIAL SINGLE A.N.	.025		37	.93	15.00	15.93
AERIAL SINGLE 1/2 NIGHT	.012		37	.44	9.90	10.34
<u>MISCELLANEOUS</u>						
250 C.P. AERIAL A.N.	.05		37	1.85	30.00	31.85
400 C.P. U.G. NOVALUX, A.N.	.075		37	2.78	72.50	75.28
1000 C.P. AERIAL A.N.	.18		37	6.66	65.00	71.66
1000 C.P. U.G. A.N.	.18		37	6.66	85.00	91.66
1000 C.P. U.G. 1/2 NIGHT	.096		37	3.55	68.37	71.92
300 WATT, MULTIPLE, A.N.	.075		37	2.78	45.00	47.78
750 WATT " "	.17		37	6.29	65.43	71.72
10000 LUMEN SODIUM, U.G.	.048		37	1.78	85.00	86.78
10000 " " O.H.	.048		37	1.78	65.00	66.78
600 C.P. INCAN. O.H.	.072		37	2.66	50.00	52.66
600 C.P. INCAN. U.G.	.072		37	2.66	70.00	72.66
16000 LUMEN MERCURY O.H.	.18		37	6.66	65.00	71.66
16000 LUMEN MERCURY U.G.	.18		37	6.66	85.00	91.66
16000 LUMEN MERCURY U.G. 21T.	.36		37	13.32	52.00	165.32
400 C.P. AERIAL	.075		37	2.78	40.00	42.78

NARRAGANSETT ELECTRIC COMPANY FUEL COSTS

THE RATES WHICH ARE AFFECTED BY FUEL COSTS ARE:

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

EACH OF THESE RATES IS AFFECTED ONLY WHEN THE COST OF FUEL EQUALS OR EXCEEDS THE ABOVE AMOUNTS PER GROSS TON, A CONDITION WHICH EXISTED THROUGHOUT THE YEAR WITH THE PRESENT BASIC COST.

THE COST OF FUEL BY MONTH WAS AS FOLLOWS:

1951	OCTOBER	10.421
	NOVEMBER	10.290
	DECEMBER	10.301
1952	JANUARY	10.300
	FEBRUARY	10.306
	MARCH	10.258
	APRIL	10.312
	MAY	10.365
	JUNE	10.053
	JULY	10.051
	AUGUST	9.997
	SEPTEMBER	9.762

THE ABOVE FIGURES SHOW THAT THE AVERAGE PRICE PER TON FOR THE YEAR WAS 10.51 PER TON-

THE NUMBER OF LAMPS AND GLOBES REPORTED AS BROKEN ON STREET LIGHTS DURING THE YEARS 1950-1951-1952 IS AS FOLLOWS:

	ARC GLOBES	INCANDESCENT GLOBES	LIGHTS BROKEN	MERCURY GLOBES	NOVALUS
50-51	296	447	4204	26	
51-52	155	438	4700	27	

MUNICIPAL WHARF SECTION

THE FISCAL YEAR 1951-52 HAS PROVEN TO BE ANOTHER SUCCESSFUL YEAR FOR THE MUNICIPAL WHARF.

THE NEW TRANSIT SHED WHICH WE HAD HOPED TO HAVE OPENED IN THE SPRING WAS DELAYED UNTIL LATE OCTOBER BECAUSE OF MATERIAL SHORTAGES. WITH THE SHED AVAILABLE BY LATE 1952, AND IF AN INCREASE IS MADE IN OUR BUDGET TO ALLOW FOR GREATER PROMOTION AND ADVERTISING WE SHOULD BE ABLE TO SHOW A DECIDED INCREASE IN OUR HANDLING OF GENERAL CARGO.

OUR RAILWAY SYSTEM, OTHER THAN THE NEW ADDITION, WILL REQUIRE A MAJOR REPAIR JOB, WHICH SHOULD BE DONE THIS YEAR.

THE FOLLOWING IS A RECAP OF OUR TONAGES, REVENUE AND EXPENDITURES:

CARGO

SHIPPED

GENERAL CARGO 2477.6
GASOLINE 3134.6
FUEL OIL 39835.3
KEROSENE 24500.

RECEIVED

GENERAL CARGO 2018.6
GASOLINE 167324.3
FUEL OIL 149223.
KEROSENE 58791.4
PIG IRON 39625.
FROZEN FISH 8015.3
FISH MEAL 1093.1
FISH OIL 87.3
BERRIES 149.6
FISH SKINS 151.6
TUD OIL 987.3
LUMBER 48,185,707 F.B.M.

REVENUE

LEASE OF LAND 54,238.39
TRACKAGE 7,588.00
WHARFAGE AND DOCKAGE 79,196.95
STORAGE 51,015.37
WATER SERVICE 2,017.44
MISCELLANEOUS 913.00
194,969.15

EXPENDITURES

PERSONAL SERVICES 30,979.25
SERVICES OTHER THAN PERSONAL 3,742.23
MATERIALS AND SUPPLIES 1,566.94
CAPITAL OUTLAY 15,197.04
51,485.46

DRAW BRIDGE OPERATION SECTION

THE FOLLOWING TABLE IS A RECORD OF CRAFT PASSING THROUGH BOTH RED BRIDGE AND POINT STREET BRIDGE FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1952.

	STEAMERS		SAILING VESSELS			MISCELLANEOUS	TOTALS FOR THE YEARS 1950-1951	TOTALS FOR THE YEARS 1951-52	TIMES DRAW WAS OPENED	AVERAGE TIME FROM CLOSING TO OPENING GATES (MIN.)
	TUGS	SAILBOATS	BARGES							
<u>POINT STREET BRIDGE</u>										
OCTOBER	6	26				33	32	14	5.90	
NOVEMBER	2	10			1	41	13	8	5.	
DECEMBER		8	2	2		23	12	8	3.5	
JANUARY		2			1	41	3	2	2.5	
FEBRUARY		2			2	20	4	3	3.00	
MARCH		6			2	24	8	6	3.	
APRIL						25				
MAY		3			1	28	4	3	4.2	
JUNE		1				33	1	1	.7	
JULY						47				
AUGUST		20		9	1	30	30	20	3.3	
SEPTEMBER		12		6		26	18	12	3.1	
	8	90	2	18	7	371	125	77	2.85	

<u>RE BRIDGE</u>										
OCTOBER	64	40		14		161	118	92	4.00	
NOVEMBER	57	70		28		169	155	108	4.24	
DECEMBER	66	76		27		271	169	121	4.5	
JANUARY	60	71		31	2	217	161	116	4.1	
FEBRUARY	64	72		25		172	161	117	4.20	
MARCH	51	72		31		172	154	104	4.1	
APRIL	34	63		35		154	132	85	3.6	
MAY	37	48		22		104	107	74	3.5	
JUNE	67	36		11		132	117	94	3.5	
JULY	54	45		15		137	114	87	3.8	
AUGUST	6	49		12		138	121	95	3.8	
SEPTEMBER	60	43		13		146	116	92	5.7	
	674	685		264	2	1973	1628	1185	4.08	

EXPENDITURES

ITEM 0. PERSONAL SERVICES	50,868.36
ITEM 1. SERVICES OTHER THAN PERS.	1,026.96
ITEM 2. MATERIALS AND SUPPLIES	681.65
	<u>52,576.97</u>

THE FOLLOWING TABLE SHOWS THE TOTAL NUMBER OF CRAFT PASSING THROUGH THE DRAWBRIDGES BEGINNING THE YEAR 1878.

FROM 1878 TO 1928 INCLUSIVE, YEARS ENDING DECEMBER 31.
 YEAR 1929 INCLUDES 9 MONTHS ONLY, AND ENDS SEPTEMBER 30.
 1930 TO DATE, YEARS END SEPTEMBER 30.

YEAR	POINT STREET BRIDGE		YEAR	POINT STREET BRIDGE		YEAR	POINT STREET BRIDGE	
	BRIDGE	RED BRIDGE		BRIDGE	RED BRIDGE		BRIDGE	RED BRIDGE
1878	30,640	1,743	1903	24,687	4,166	1928	4,679	3,912
1879	35,369	2,227	1904	19,003	2,411	1929	4,068	3,632
1880	33,984	2,283	1905	22,706	2,671	29-1930	3,210	2,738
1881	31,323	2,283	1906	23,092	2,553	1930-31	3,243	2,742
1882	33,878	2,281	1907	25,949	2,632	1931-32	1,197	1,900
1883	29,645	2,848	1908	21,767	4,852	1932-33	1,327	2,787
1884	22,050	2,461	1909	17,128	5,914	1933-34	1,990	3,757
1885	22,525	5,914	1910	17,125	2,927	1934-35	1,387	2,354
1886	23,506	3,736	1911	20,078	3,293	1935-36	1,468	2,150
1887	24,301	5,521	1912	21,519	3,021	1936-37	1,368	2,138
1888	27,789	3,119	1913	15,113	2,734	1937-38	1,136	1,913
1889	26,090	3,600	1914	13,364	2,411	1938-39	1,676	2,187
1890	30,255	3,070	1915	14,409	2,755	1939-40	1,299	3,431
1891	26,387	3,857	1916	11,638	3,368	1940-41	1,066	2,420
1892	25,530	3,061	1917	9,704	3,273	1941-42	1,205	1,722
1893	23,528	3,446	1918	6,894	2,680	1942-43	1,263	1,087
1894	20,801	2,445	1919	7,123	3,476	1943-44	1,487	2,262
1895	21,884	2,553	1920	6,950	4,451	1944-45	1,233	1,319
1896	22,307	2,283	1921	6,067	2,001	1945-46	1,078	1,828
1897	20,790	2,204	1922	5,307	2,958	1946-47	936	1,640
1898	22,004	2,159	1923	5,476	5,134	1947-48	1,010	1,541
1899	22,820	3,250	1924	4,858	2,035	1948-49	666	2,130
1900	23,248	4,392	1925	4,939	1,942	1949-50	638	1,609
1901	22,713	2,525	1926	5,198	2,415	1950-51	371	1,973
1902	22,701	2,040	1927	4,700	2,934	1951-52	125	1,628

NAME OF BRIDGE	GREATEST NUMBER OF OPENINGS IN ANY ONE DAY		DAILY AVERAGE NUMBER OF OPENINGS FOR THE YEARS	
	1950-51	1951-52	1950-51	1951-52
	POINT STREET BRIDGE	4	4	1.01
RED BRIDGE	11	10	5.40	4.08

AIR POLLUTION SECTION

THIS YEAR THE AIR POLLUTION SECTION ENJOYED THE BENEFITS DERIVED BY THE INCREASE IN ITS STAFF IN 1951. AGAIN AROUND 3000 INSPECTIONS OF NON-RESIDENTIAL FUEL BURNING INSTALLATIONS WERE MADE. HOWEVER, GENERAL CONDITIONS IN BOILER ROOMS WERE FOUND TO BE GREATLY IMPROVED. DEFECTS WERE FEWER AND LESS HAZARDOUS. THIS INSPECTION PROGRAM IS IN THE AIR POLLUTION ORDINANCE, TO PREVENT SMOKE BEFORE IT STARTS. IN ADDITION, THROUGH IT, A GREAT AMOUNT OF FIRE PREVENTION IS ACCOMPLISHED. THE PROVIDENCE FIRE DEPARTMENT AND AN OFFICER OF A LARGE INSURANCE COMPANY PRAISED THE DIVISION FOR THIS PHASE OF ITS WORK.

THERE HAS BEEN NOTED LIFT IN THE MORALE OF THE DEPARTMENT. AS AN EXAMPLE; THE ENTIRE STAFF IS TAKING AN ACCREDITED COLLEGE COURSE IN COMBUSTION ENGINEERING. THIS TRAINING IS SHOWING OUTSTANDING RESULTS. OUR INSPECTORS ARE ABLE TO DIAGNOSE QUICKLY THE ENGINEERING PROBLEMS CAUSING SMOKE IN BOILER ROOMS. FREQUENTLY, THEY GIVE FRIENDLY SUGGESTIONS TO IMPROVE EFFICIENCY. IN THIS WAY THEY NOT ONLY ELIMINATE SMOKE; THEY ALSO SAVE FUEL DOLLARS FOR THE PLANT OWNER.

DURING THE YEAR THE DEPARTMENT SOLVED TWO DIFFICULT AND TRICKY PROBLEMS IN PARTICULAR INCINERATION WHICH WAS VITAL TO TWO PROVIDENCE INDUSTRIES.

THE UNION SMELTING AND REFINING WORKS TRIED TO CURB THE SMOKE NUISANCE CREATED BY ITS WIRE STRIPPING INCINERATOR BY HIRING ENGINEERING PROFESSORS AND CONSULTING ENGINEERS FROM BOSTON AND NEW YORK. ALTHOUGH THIS ADVICE WAS EXPENSIVE THE COMPANY RECEIVED NO DEFINITE ANSWERS AND ONE CONSULTING FIRM WROTE THAT THE PROBLEM WAS INSOLUBLE. THIS OFFICE TACKLED THE PROBLEM AND DESIGNED A SMOKELESS INCINERATOR FOR THE COMPANY. FOLLOWING THIS A SIMILAR SMOKE-PROOF INCINERATOR WAS DESIGNED FOR THE ACORN COOPERAGE CO., WHICH CLEANS STEEL DRUMS BY INCINERATION. BOTH JOBS WERE WRITTEN UP IN "ENGINEERING NEWSRECORD" THE WORLD'S LARGEST PUBLICATION OF ITS TYPE.

IN APRIL THE AIR POLLUTION ENGINEER ACCEPTED THE INVITATION OF THE PROVIDENCE MEDICAL ASSOCIATION AND ADDRESSED THAT BODY AT THEIR AUDITORIUM. A QUESTION AND ANSWER PERIOD FOLLOWED. LATER THE ENTIRE ADDRESS WAS PUBLISHED IN THE RHODE ISLAND MEDICAL JOURNAL AND IN THE SAME ISSUE DR. PETER PINEO CHASE, EDITOR-IN-CHIEF, WROTE AN EDITORIAL WHICH PRAISED HIGHLY THE WORK OF THE PROVIDENCE AIR POLLUTION DIVISION.

FOLLOWING THIS TALK THIS OFFICE RECEIVED A NICE LETTER FROM DR. FRANCIS H. CHAFEE, WHO HAS FOR YEARS BEEN MAKING A SCIENTIFIC STUDY OF THE POLLEN AND DUST FALL IN PROVIDENCE. HE STATES THAT THE AMOUNT OF DIRT IN THE AIR HAS SHOWN A MARKED DECREASE DURING THE PAST FEW YEARS AND GIVES CREDIT FOR THIS IMPROVEMENT TO THE AIR POLLUTION DIVISION.

PROVIDENCE IS THE ONLY NEW ENGLAND CITY WITH AN ACTIVE AIR POLLUTION CONTROL PROGRAM, BUT THIS CITY'S ACCOMPLISHMENTS IN CLEANING ITS ATMOSPHERE ARE WELL KNOWN IN ALL PARTS OF THE NATION. THIS OFFICE RECEIVES LETTERS SEEKING ADVICE FROM TOWNS, CITIES, AND EVEN STATE GOVERNMENTS ON HOW TO ADMINISTER ON AIR POLLUTION CONTROL PROGRAM.

THE WEEK OF OCTOBER 20-26 WAS OBSERVED THROUGHOUT THE UNITED STATES AND CANADA AS "CLEANER AIR WEEK". THIS CITY, AS EXPECTED, SHOWED AN ENTHUSIASTIC INTEREST IN CLEANING THE AIR THAT ITS CITIZENS MUST BREATHE. DURING THIS WEEK THE AIR POLLUTION ENGINEER DELIVERED TEN RADIO TALKS AND MADE TWO TELEVISION APPEARANCES TO FURTHER ACQUAINT THE PEOPLE WITH THE WORK OF CLEANING THEIR AIR.

THE AIR POLLUTION DIVISION STILL ENJOYS THE WHOLE HEARTED BACKING OF THE PRESS, MEDICAL ASSOCIATIONS, CHAMBER OF COMMERCE AND MANY OUTSTANDING CIVIC AND WOMEN'S GROUPS. IT IS THE INTENTION OF THE ENTIRE STAFF TO WORK EVEN HARDER TO MERIT THEIR CONTINUED SUPPORT AND KEEP PROVIDENCE IN THE POSITION OF PAGE SETTER IN AIR POLLUTION CONTROL AMONG THE CITIES OF AMERICA.

EXPENDITURES

ITEM 0. PERSONAL SERVICES	\$ 20,805.75
ITEM 1. SERVICES OTHER THAN PERSONAL	1,493.55
ITEM 2. MATERIALS AND SUPPLIES	<u>308.67</u>
	\$ 22,607.97

REVENUE

CERTIFICATES OF OPERATION, OPERATING PERMITS AND INSTALLATION PERMITS	\$ 5,116.00
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INSPECTIONS	2,741
INVESTIGATIONS	325
VIOLATIONS	102

OIL BURNERS	1,111
GAS BURNERS	194
TANKS	27

INVESTIGATIONS	1,332
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CASH TAKEN IN	<u>\$ 2,555.00</u>
TOTAL REVENUE	\$ 7,671.00

THE PERMITS ISSUED AND THE CASH TAKEN IN REPRESENTS AN INCREASE OF 40% OVER THE PREVIOUS FISCAL YEAR.

HARBOR MASTER SECTION

VESSELS

	QUARTER ENDING DEC. 31, 51	QUARTER ENDING MAR. 31, 52	QUARTER ENDING JUNE 30, 52	QUARTER ENDING SEP. 30, 52	TOTAL FOR YEAR
STEAMERS	144	149	130	188	611
MOTOR VESSELS	112	128	102	110	452
TUG BOATS	95	108	91	83	377
BARGES	41	48	49	26	164
MUD DIGGER				1	1
SCOWS				4	4
YACHT	1			1	2
LIGHTER		1			1
BARKENTINE				1	1
TOTALS	<u>393</u>	<u>434</u>	<u>372</u>	<u>414</u>	<u>1613</u>

	<u>TONNAGE</u>				
BITUMINOUS	250,241	307,335	253,888	167,263	978,727
GASOLINE	412,599	345,469	399,186	442,326	1,599,580
CHEMICALS	9,300	9,300	9,300	9,150	37,050
OIL	884,718	1,151,025	787,577	727,475	3,550,795
LUMBER	5,373	19,454	20,293	35,166	80,286
ASPHALT	65,800	27,000	21,800	7,600	122,200
FROZEN FISH	1,075	1,719	2,147	2,355	7,296
FISH MEAL	327		320	365	1,012
BOILER FUEL	2,586				2,586
PIG IRON	17,838	9,605	6,291	5,846	39,580
GRANITE	1,700		1,300		3,000
COKE	3,031				3,031
TAR	4,200	7,600	4,600		16,400
WOOL	112				112
CASE-BLUEBERRIES	149				149
FISH OIL	51				51
STEEL	175				175
MAPLEINE	17				17
SMOKED FISH	19				19
SWORD FISH	2				2
MACKEREL	2				2
PICKLES	1				1
COCOA BEANS	94				94
CANNED CORN BEEF	70				70
FERTILIZER		245	1,704		1,949
GENERAL FREIGHT		1,572			1,572
FISH SKIN		57	47	45	150
PLANT FOOD		2			2
LOBSTER				8	8
CABLE				80	80
TOTALS	<u>1,659,480</u>	<u>1,880,383</u>	<u>1,508,453</u>	<u>1,397,680</u>	<u>6,445,996</u>

EXPENDITURES

ITEM 0. PERSONAL SERVICES	\$ 3,121.37
ITEM 1. SERVICES OTHER THAN PERSONAL	138.68
ITEM 2. MATERIALS AND SUPPLIES	<u>328.76</u>
	\$ 3,588.81

WATER REFUND-REVENUE \$9.18

ENGINEER -- MARK S. GREENHALGH.

RESPECTFULLY SUBMITTED,

PETER J. HICKS, JR.
PUBLIC SERVICE ENGINEER