

# TOWN OF BROOKLINE MASSACHUSETTS



## CAPITAL IMPROVEMENTS PROGRAM

FY 2001 to 2006

Prepared under the provisions of Section 81-C of Chapter 41  
of the General Laws of the Commonwealth of Massachusetts

BROOKLINE PLANNING BOARD  
MARCH 2000



PLANNING BOARD

Jerome Kampler, Chairman  
Kenneth Goldstein Clerk  
Linda K. Hamlin  
Martin Sokoloff  
Mark J. Zarrillo

# Town of Brookline Massachusetts

Friday, April 14, 2000

Dear Town Meeting Members,

In accordance with the statutory requirements, the Planning Board is furnishing to you the FY 2001-2006 Capital Improvements Program (CIP) for the Town of Brookline. This program, which proposes an orderly schedule for the expenditure of limited Town funds for major capital improvements, was formerly adopted by the Planning Board on April 13, 2000.

As indicated in the Town Administrator's Budget Message in the FY 2001 Financial Plan, the CIP continues to be a high priority. This year's CIP is firmly based financially because it conforms with the fiscal limits established by the Town Administrator and the Selectmen.

The Planning Board would like to stress that the Capital Needs Assessment of all town and school buildings, completed almost two years ago, should continue to be integrated systematically into the CIP process to ensure that future capital proposals will be based on this vital study.

The primary purpose of this report is to alert the citizens of the Town, particularly Town Meeting Members, to the severe problems we have with the Town's capital assets. The Town must invest more funds now in its facilities to overcome its past neglect; otherwise even greater capital expenditures will inevitably be required in the future. The Planning Board urges all of you to participate actively in the Capital Improvements Program process.

Very truly yours,

Jerome I. Kampler  
Chairman

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# **THE CAPITAL IMPROVEMENTS PROGRAM**

## **DEFINITION AND PURPOSE**

The Capital Improvements Program is a schedule for the expenditure of Town funds for major public capital improvements over a six-year period. A capital improvement is one which provides for construction, reconstruction, renovation or replacement of a public building, facility, or major equipment item; addition to a public building or facility; purchase a land or building or facilities for a public purpose; or a long-range development study. While the type of improvement is the basic criterion, a project costing at least \$25,000 and with a life expectancy of 10 years is generally considered to be a capital improvement. The basic purpose of the Capital Improvements Program is to schedule essential capital improvements in an orderly way over a six-year period with consideration for the priorities and the financial capability of the Town.

## **THE PROCESS**

The Planning Board is required by Section 81-C of Chapter 41 of the General Laws to submit annually a Capital Improvements Program for the Town. In the past, the Capital Improvements Program was essentially a compilation of departmental requests; the Planning Board influenced the various agencies with respect to the nature and scheduling of projects, but the final decisions rested with departments. This procedure worked relatively well because the request for funds for new facilities were made at a moderate pace, and the Town was able to finance them with relative ease. Circumstances began to change, however, in the late 1960's. In the light of substantial tax-rate increase caused by the rapid increase in costs of local government, the decline in state revenues, the lack of growth of the Town's tax base, and the accelerated demand for new public facilities, the Board of Selectmen was compelled to reconsider its role and the Planning Board's with respect to the development of the Capital Improvements Program. In 1971, after discussion with the Planning Board, the Board of Selectmen established a fiscal limit for the six-year Capital Improvements Program and charged the Planning Board with the responsibility of assigning priorities so that the recommended CIP would fall within the fiscal limit adopted by the Board of Selectmen.

In 1985, special legislation (Chapter 270) was passed establishing the position of Town Administrator. One of the primary responsibilities of the Town Administrator is to prepare and recommend an annual financial plan including an operating budget and a capital improvements program for the Town.

The annual process starts in the fall with a letter from the Town Administrator to boards and departments outlining the process and timetable and noting any particular objectives, such as energy-saving projects. A project summary sheet and detailed project forms are submitted by each agency. Then conferences are held by a Planning Board subcommittee with agency representatives to clarify needs, priorities, and relationships to other projects and overall Town objectives. The Town Administrator recommends CIP financing policies, which are submitted to the Selectmen for adoption. The Deputy Town Administrator, the Planning Director, and a working committee of department heads prepare a preliminary program, which conforms with the financing policies. After further review, analysis, and discussion, the Town Administrator incorporates his recommended CIP into the annual Financial Plan.

The process continues with public discussions at meetings of the Planning Board, Selectmen, and Advisory Committee. The Planning Board's final recommendations are published in this annual CIP booklet which is distributed just prior to the spring Annual Town Meeting. In addition, the

first year projects proposed for Town Meeting action are described in detail in the Warrant Reports of the Selectmen and Advisory Committee.

## **PRIORITIES**

The Planning Board utilizes specific criteria to evaluate capital improvement project requests. These criteria were developed by the Planning Board in conjunction with Town department heads and the CIP Committee. These criteria were developed to assist in establishing priorities among various departmental requests.

1. **The project necessary for health and safety effects.**
2. **The project is mandated by legislative or court action.**
3. **The project supports adopted plans and policies.**
4. **Fiscal impact of the proposed project.**
5. **The extent to which the project impacts costs and revenues.**
6. **The readiness and feasibility of the project.**
7. **The implications of deferring the project.**
8. **The qualitative and quantitative impact of the project on public services.**
9. **The distributional effects of the project.**
10. **The relationship of the project to other capital projects.**
11. **The disruption and inconvenience expected to be caused by the project.**
12. **The community economic effects of the project.**
13. **The environmental, aesthetic, and social effects of the project.**
14. **The extent to which the project prolongs the functional life of a capital asset.**
15. **The number of years that the project has been carried in the CIP.**

In addition to the criteria listed above, the Planning Board takes into account the following factors where applicable.

- **Relationship to Comprehensive Plan, Community Development Program, and other basic policy documents.**
- **Timing with respect to feasibility of accomplishment and relationship with other projects.**
- **Effect on annual operating budget. Availability of state and federal grants, reimbursements, or credits.**
- **Balance among user groups, functions, and areas of the Town.**

It should be noted that the Planning Board recognizes that delays will add to projected costs of major projects rescheduled for later years. However, these added costs do not obviate the need for scheduling improvements within a responsible fiscal framework to permit possible changes in priorities in response to future fiscal situations.

## THIS YEAR'S PROGRAM

The recommended CIP for FY2001 through FY2006 is an aggressive program that proposes many important projects, including major renovations of the Main Library, Police/Fire Headquarters, and the Lawrence School, continued improvements to the golf course, a large number of park and open space improvements, and many miles of improved streets and utility lines.

The total six-year program has an estimated cost of \$82.9 million: \$21.8 million funded by direct tax revenue appropriations, \$37.8 million by bonding, \$14.8 million by enterprise fund fees, and \$8.6 million by CDBG, other state and federal grants, and other funds.

Following the recommended CIP table are two graphs, projecting debt service and total outstanding debt for the proposed program years, FY 2001 through FY 2006. In both cases, the substantial increases are due primarily to the High School, Baker School, Senior Center, and Municipal Service Center projects, plus the new major projects recommended herein. The calculations are based on varying bond terms, from 5 to 20 years depending on the purpose, and assumed interest rates averaging 5%, considerably higher than the interest on the Town's recent bond issue, but deemed appropriate given anticipated municipal bond rates. The graphs do not reflect future state reimbursements on school projects.

The investment of \$83 million in capital projects continues the Town's commitment to reverse the decline of its infrastructure. In just the last ten (10) years, over \$180 million has been invested in the CIP. The Town's debt burden will be going from \$18 million to approximately \$128 million. While it is important to maintain our commitment to the CIP, it is equally important to be committed to staying within our CIP financing policies. Despite the unprecedented levels of expenditure on the CIP, there inevitably will be pressure to accelerate and add projects. Given the rapid acceleration in our debt, and given that this will be the highest debt burden per capita of the Aaa communities in the state, it is crucial to maintain fiscal discipline in this process.

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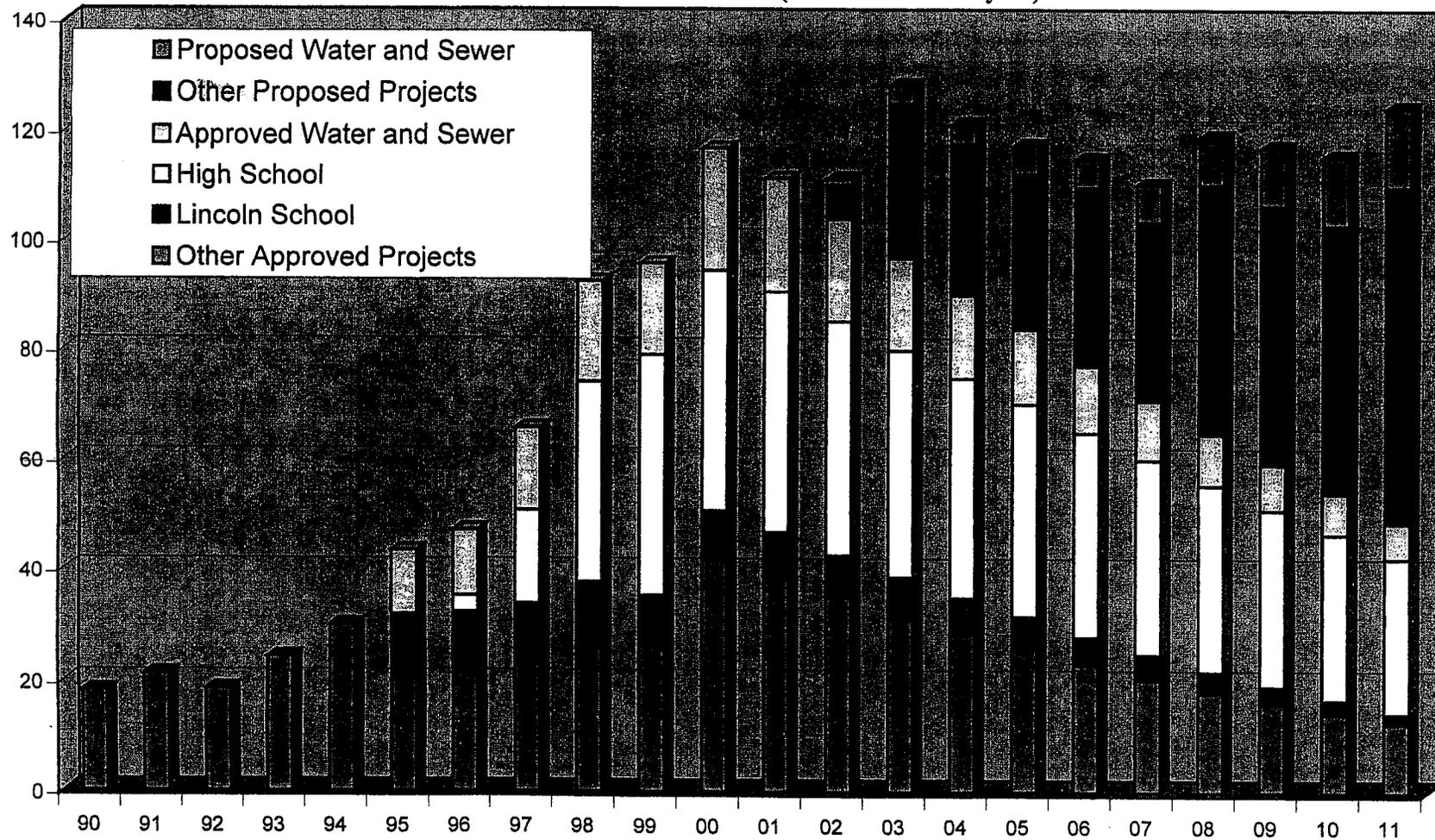
## FY 2001 - 2006 CIP RECOMMENDATIONS

PROJECT (costs in thousands)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	TOTAL
<b>GENERAL GOVERNMENT</b>							
1 Town Hall - HVAC, Painting & Fixtures		40 T		450 B	4,500 B		4,990
2 Replace Voting Machines	225 T						225
3 Town/School Financial Mgt System	600 T						600
4 Public Buildings - Furnishings & Equipment	100 T	80 T					180
5 Asbestos Removal Town/School	165 T	75 T	60 T	50 T	50 T	50 T	450
6 ADA Renovations Town/School	50 T	50 CD	300				
7 Emergency Generator Study-All Bldgs						20 T	20
8 Building Maint. Facility Renovation	75 T						75
9 Historic Buildings Renovations			32 T	350 B			382
<b>TOTAL</b>	<b>1,215</b>	<b>245</b>	<b>142</b>	<b>900</b>	<b>4,600</b>	<b>120</b>	<b>7,222</b>
<b>LIBRARY</b>							
10 Main Library Renovation- Town Funds	2,700 B						2,700
- CD Funds	123 CD	677 CD					800
11 Coolidge Corner Library -							
- Fire Alarm System				45 T			45
- Furnishings			110 T				110
- Window/Facade Replacement	250 T						250
- Driveway Rehab				25 T			25
12 Putterham Library - Furnishings			55 T				55
- Fire Alarm System	45 T						45
<b>TOTAL</b>	<b>3,118</b>	<b>677</b>	<b>165</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>4,030</b>
<b>PUBLIC SAFETY</b>							
<u>Police Department</u>							
13 Public Safety Facility Renovation - Bond	6,300 B						6,300
- Overlay Surplus Fund	2,700 E						2,700
<u>Fire Department</u>							
14 Public Safety Communications Equip	300 T						300
15 Fire Station #5- Windows & Skylight				17 T	155 T		172
16 Fire Training Building			10 T	100 T			110
17 Refurbishment of Fire Apparatus	35 T	35 T	35 T	30 T	25 T	20 T	180
18 Replace Engine #1				375 B			375
19 Replace Engine #5						390 B	390
<b>TOTAL</b>	<b>9,335</b>	<b>35</b>	<b>45</b>	<b>522</b>	<b>180</b>	<b>410</b>	<b>10,527</b>
<b>PUBLIC WORKS</b>							
<u>Transportation</u>							
20 Washington/Thayer St. Signal Modernization		110 T					110
21 61 Park Street Pedestrian Signal			15 T	90 T			105
22 Hammond/Heath Signal		130 E					130
23 Longwood/Kent Signal Modernization		75 T					75
24 South/Grove St. Signal Modernization				25 T	120 T		145
25 Carlton/Mountfort St. Signal Modernization			20 T	90 G			110
26 Village Closed Loop Signal System		250 G					250
27 Independence/Beverly/Russett Signal				20 T	80 T		100
28 Washington/School/Cypress Signal				25 T	100 T		125
29 Washington St. @ Park St. New Signal	25 T	90 T					115
30 Grove St. @ Allendale Rd. New Signal				25 T	110 T		135
31 Newton St. @ W. Roxbury Pkwy. New Signal				25 T	150 G		175
32 Harvard/Babcock Signal						25 T	25
33 Horace James Circle Improvements				20 T	150 G		170
34 Fire Station #6				60 T			60
35 Fire Station #7				60 T			60
36 Audible Signals (ADA)	10 T	10 T					20
37 School Zone Signal Replacement Program	30 T		30 T		30 T		90
<b>TOTAL</b>	<b>65</b>	<b>665</b>	<b>65</b>	<b>440</b>	<b>740</b>	<b>25</b>	<b>2,000</b>
<u>Engineering/Highway</u>							
38 Handicapped Access (ADA)- CD	40 CD	40 CD	40 CD	40 CD	40 CD	40 CD	240
39 Street Rehabilitation - Town	931 T	1,045 T	945 T	720 T	715 T	750 T	5,106
40 Streets-Traffic Calming Studies		45 T	55 T			60 T	160
41 Streets-Traffic Calming Implementation	250 T		175 T	200 T			625
42 Street Rehabilitation - CD	60 CD	60 CD	220 CD	215 CD	210 CD	210 CD	975
43 Street Rehabilitation - State	508 G	3,048					
44 Sidewalks	100 T	600					
45 Parking Meters	105 T						105
46 Newton St. Landfill Closure/Leaf-Snow Dump		3,000 B					3,000
47 Transfer Station Rehab	500 T						500
48 Street Lighting Replacement/Purchase	300 T		100 T	100 T			500
49 Path Reconstruction		100 T		200 T			300
50 Carleton St Footbridge	50 T		600 G				650
<b>TOTAL</b>	<b>2,844</b>	<b>4,898</b>	<b>2,743</b>	<b>2,083</b>	<b>1,573</b>	<b>1,668</b>	<b>15,809</b>
<u>Water/Sewer</u>							
51 Storm Drain Improvements			500 EB		500 EB		1,000
52 Wastewater System Improvements		2,000 EB		2,000 EB		2,000 EB	6,000
53 Water Meter Replacement	1,200 EB						1,200

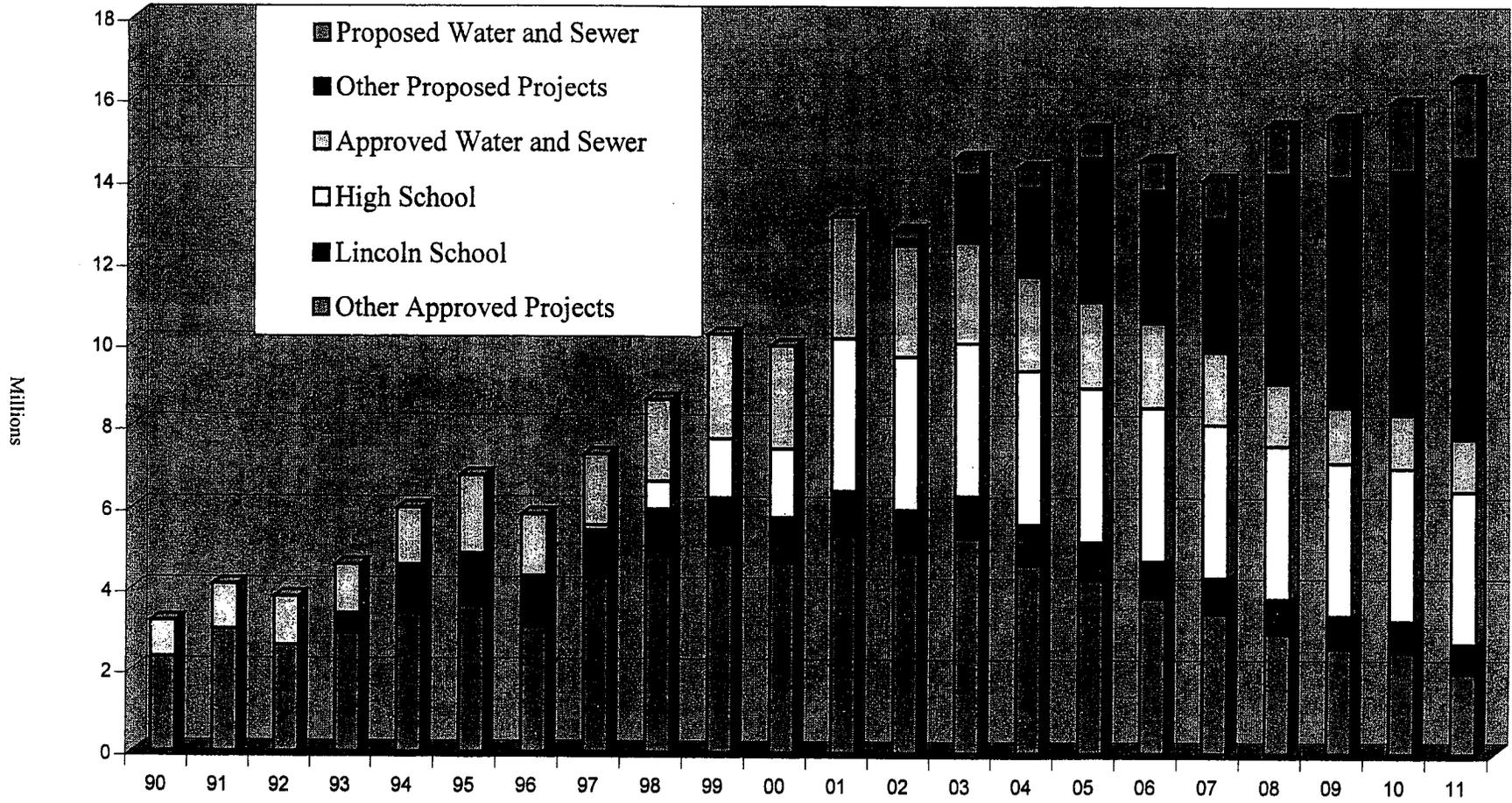
		19-Apr-00	09:37 AM	FY 2001 - 2006 CIP RECOMMENDATIONS					
PROJECT (costs in thousands)		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	TOTAL	
54	Singletree Tank Rehab		140 E	60 E				200	
	TOTAL	1,200	2,140	560	2,000	500	2,000	8,400	
<b>Parks/Playgrounds</b>									
55	Larz Anderson Park- Town Funds		300 T					300	
	- Grant Funds		100 G					100	
	- Ryder Cup Funds	700 E						700	
56	Olmsted Park - CD Funds	300 CD						300	
	- Grant Funds	100 G						100	
57	Riverway Park- Town Funds			300 T				300	
	- Grant Funds			125 G				125	
58	Runkle Playground	150 T						150	
59	Parks/Playgrounds Rehab/Upgrade	250 T	200 T	200 T	200 T	220 T	220 T	1,290	
60	Boylston Playground	250 CD						250	
61	Sports Field Study	25 T						25	
62	Amory Field				35 T	350 B		385	
63	Monmouth Park					30 CD	300 CD	330	
64	Longwood Playground	35 B	350 B					385	
65	Robinson Playground		30 CD					30	
66	Coolidge Park		20 CD	200 CD				220	
	TOTAL	1,810	1,000	825	235	600	520	4,990	
<b>Conservation/Other Open Space</b>									
67	Tree Removal and Replacement- Town	110 T	115 T	120 T	125 T	130 T	135 T	735	
	- CD	30 CD	30 CD	30 CD	30 CD	30 CD	30 CD	180	
68	Forestry Restoration	40 T		50 T		60 T		150	
69	Hall's Pond Sanctuary	50 T			175 T			225	
70	Hoar Sanctuary	35 T						35	
71	Town/School Grounds Rehab	110 T	120 T	130 T	140 T	150 T	160 T	810	
72	Old Town Green	30 T						30	
73	Muddy River, & Willow Pond	500 E						500	
74	Leverett Pond Dredging	210 CD						210	
75	Lost Pond Sanctuary	35 T			25 T			60	
76	Hemlock Tree Removal	60 T	40 T	40 T	40 T			180	
	TOTAL	1,210	305	370	535	370	325	3,115	
<b>RECREATION</b>									
77	Skating Rink Piping	450 T						450	
78	Tennis Courts		100 T	100 T		100 T		300	
79	Swimming Pool - Renovate Showers			150 T				150	
	- Replace All Lockers						200 T	200	
	- Replace Ventilation System & Windows			45 T	450 B			495	
80	Golf Course Clubhouse		300 EB					300	
	Golf Course Phase III Improvements	700 E						700	
	Golf Course Phase III Improvements	300 EB	200 EB					500	
81	Soule Rec Center Renovation		600 T					600	
82	Waldstein Building						20 T	20	
83	Skate Park	75 T						75	
84	Recreation Master Plan	25 T						25	
	TOTAL	1,550	1,200	295	450	100	220	3,815	



TOTAL OUTSTANDING DEBT (as of June 30 each year)



DEBT SERVICE



## CIP PROJECT DESCRIPTIONS

NOTE: The figures in all tables are based on the best available cost estimates at the time of the program adoption in April 2000 and are subject to change due to revised estimates and bids.

### GENERAL GOVERNMENT

#### TOWN HALL

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##### 1. TOWN HALL

The HVAC system, including the boilers, heating/air conditioning units, and pipes, which are nearly 40 years old, are in dire need of replacement. Also, the lighting fixtures need improvement, and common areas need repainting.

Estimated Cost: \$4,990,000 Town funds

Time Schedule: FY 2002 -- \$ 40,000 (feasibility study)  
FY 2004 -- \$ 450,000 Bonded (plans & specs)  
FY 2005 -- \$4,500,000 Bonded (construction)

##### 2. VOTING MACHINE REPLACEMENT

Eighteen optical scan voting machines, including supporting equipment, are needed to replace the outdated automatic voting machines currently in use.

Estimated Cost: \$225,000

Time Schedule: FY 2001 -- \$225,000 Town funds

##### 3. TOWN/SCHOOL FINANCIAL MANAGEMENT SYSTEM

This system is proposed to replace the current Pentamation Financial Management System software with a superior product with added functionality. We expect the new system will be GAAP compliant and to have an acceptable on-line requisition and pre-encumbrance package. It will also have other modules (which are not available in the Pentamation Massachusetts system) including tax, miscellaneous billing, payroll, fixed asset, human resources, and report writer modules that interface directly with the new financial package. With the anticipated implementation of GASB 34 and other accounting requirements, we are also looking for a vendor with a knowledgeable support and programming team that will be able to deal with these new complexities.

Estimated Cost: \$600,000

Time Schedule: FY 2001 -- \$600,000 Town funds

##### 4. PUBLIC BUILDINGS FURNISHINGS & EQUIPMENT

Furniture throughout Town Hall needs to be replaced due to its age, and new partitions are needed on various floors of Town Hall.

Estimated Cost: \$180,000

Time Schedule: FY 2001 -- \$100,000 Town funds  
FY 2002 -- \$ 80,000 Town funds

**5. ASBESTOS REMOVAL**

This appropriation, which will be requested every year through FY 2006, will allow for the removal of asbestos whenever it is discovered in a Town/school facility. Many times when mechanical system repairs are in progress, expensive asbestos abatement has been required. These funds will allow for the proper abatement of asbestos.

Estimated Cost: \$450,000

Time Schedule: FY 2001 -- \$165,000 Town funds  
FY 2002 -- \$ 75,000 Town funds  
FY 2003 -- \$ 60,000 Town funds  
FY 2004 -- \$ 50,000 Town funds  
FY 2005 -- \$ 50,000 Town funds  
FY 2006 -- \$ 50,000 Town funds

**6. ADA RENOVATIONS-TOWN/SCHOOL**

This annual program of ADA improvements, is requested in order to bring the Town's buildings into compliance with the Americans with Disabilities Act (ADA), which requires that the Town make public buildings accessible to all. These funds will be used on buildings that are not part of currently planned major renovations or new projects.

Estimated Cost: \$300,000

Time Schedule: FY 2001-2006 -- \$50,000 yearly, Town funds

**7. EMERGENCY GENERATOR STUDY**

This funding is for a study to determine which Town buildings need emergency generators, the type of generator required, and the estimated cost.

Estimated Cost: \$20,000

Time Schedule: FY 2006 -- \$20,000 Town funds

**8. BUILDING MAINTENANCE FACILITY RENOVATION**

These funds are to be used to improve the present Parks Department buildings at Larz Anderson Park to house the public building vehicles and equipment. They were previously located at the Sewall School.

Estimated Cost: \$75,000

Time Schedule: FY 2001 -- \$75,000 Town funds

**9. HISTORIC BUILDINGS RENOVATIONS**

Several historic buildings in Larz Anderson Park that are owned by the Town are in need of major repairs, including exterior renovations to the Putterham School and the Widow Harris House.

Estimated Cost: \$382,000

Time Schedule: FY 2003 -- \$ 32,000 Town funds (plans and specs)  
FY 2004 -- \$350,000 Town funds, bonded (renovations)

## **LIBRARY**

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### **10. MAIN LIBRARY**

These funds will be for the total renovation of the Main Library. This project will create an additional 18,000-sq. ft. of public space and double the size of the Children's Room. It will include the replacement of all HVAC systems and upgrade electrical systems for new information technologies. In addition, the project will prevent the need to spend millions of dollars on remedial repairs.

Estimated Cost: \$12,000,000

Time Schedule: Prior Appropriations -- \$1,000,000 Town funds  
FY 2001 -- \$2,700,000 Town funds bonded  
FY 2001 -- \$3,500,000 State Grant funds  
FY 2001 -- \$4,000,000 Private funds  
FY 2001 -- \$ 123,000 CDBG funds  
FY 2002 -- \$ 677,000 CDBG funds

### **11. COOLIDGE CORNER LIBRARY**

These funds will replace the fire alarm system as recommended in the Capital Needs Assessment. They will also replace furnishings originally purchased in 1957 and 1970, acquire an appropriate number of computer units and provide handicapped access. Needed modifications to the circulation desk will be made and proper display units for non-print materials will be purchased. This request will repair the driveway behind the Coolidge Corner Library, which is heavily patched and has been rebuilt in some sections. Finally, façade windows need to be replaced. The existing window frames are rotted and large plate glass windows are not energy efficient and are expensive to replace.

Estimated Cost: \$430,000 Town funds

Time Schedule: FY 2001 -- \$250,000 - window/facade replacement  
FY 2003 -- \$110,000 - furnishings  
FY 2004 -- \$ 45,000 - fire alarm system  
FY 2004 -- \$ 25,000 - driveway rehab

### **12. PUTTERHAM LIBRARY**

These funds will replace furnishings originally purchased in 1961. An appropriate number of computer units will be acquired and handicapped access will be provided. Needed modifications to the circulation desk will be made and proper display units for non-print materials will be purchased. We will also replace the fire alarm system as recommended in the Capital Needs Assessment.

Estimated Cost: \$100,000 Town funds

Time Schedule: FY 2001 -- \$45,000 - fire alarm system  
FY 2003 -- \$55,000 - furnishings

## **PUBLIC SAFETY**

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### **13. PUBLIC SAFETY HEADQUARTERS RENOVATION**

This project will renovate and modernize the existing Police and Fire Buildings that are located at 338-350 Washington Street. Both buildings are no longer suited for the needs of today. Both buildings were built many years ago and do not meet today's standards. There is also a need to update and consolidate the communications

of both departments in order to increase efficiency and public safety. Money was appropriated for plans and specifications for this project in FY 1999.

Estimated Cost: \$9,000,000

Time Schedule: FY 2001 -- \$6,300,000 Town funds bonded  
FY 2001 -- \$2,700,000 Overlay surplus funds

**14. FIRE ALARM SYSTEM/COMMUNICATIONS EQUIPMENT**

This project will replace the fire alarm system and other equipment installed at fire headquarters. The equipment to be replaced dates back to 1926 and, while still in working condition, breaks down frequently. Because of the system's age, repair parts are almost non-existent.

Estimated Cost: \$300,000

Time Schedule: FY 2001 -- \$300,000 Town funds

**15. FIRE STATION #5**

Funds are needed to design and replace windows and install new skylights in the living area of the Fire Station. The windows that are now in place are single-glazed and therefore energy inefficient. The present skylights are constantly leaking, and the frames have rotted.

Estimated Cost: \$172,000 Town funds

Time Schedule: FY 2004 -- \$ 17,000 plans  
FY 2005 -- \$155,000 construction

**16. FIRE TRAINING BUILDING**

The fire training buildings need repair, including repairing the masonry and making structural repairs.

Estimated Cost: \$110,000

Time Schedule: FY 2003 -- \$ 10,000 Town funds  
FY 2004 -- \$100,000 Town funds

**17. REFURBISH FIRE APPARATUS**

This is a continuing project to upgrade and refurbish fire apparatus. In the years since the beginning of this project, on-the-road breakdowns have been reduced dramatically.

Estimated Cost: \$180,000

Time Schedule: FY 2001 -- \$35,000 Town funds  
FY 2002 -- \$35,000 Town funds  
FY 2003 -- \$35,000 Town funds  
FY 2004 -- \$30,000 Town funds  
FY 2005 -- \$25,000 Town funds  
FY 2006 -- \$20,000 Town funds

**18. REPLACE ENGINE #1**

This 1980 Pirsch 1250 GPM Pumper will be 24 years old when replaced in FY 2004. This is part of a planned replacement program for the department's fire apparatus. The manufacturer of the present engine is no longer in business, making parts difficult to find and repairs costly.

Estimated Cost: \$375,000

Time Schedule: FY 2004 -- \$375,000 Town funds bonded

**19. REPLACE ENGINE #5**

This 1984 1250 GPM Mack Pumper will be 21 years old when replaced in FY 2005. This is a portion of the department's apparatus replacement program. Mack is no longer in business making repair parts difficult to find. Present day apparatus does not last as a first line pumper for much more than 15-20 years. By replacing apparatus after 20 years, the department can use the pumper as a spare for an additional five years.

Estimated Cost: \$390,000

Time Schedule: FY 2006 -- \$390,000 Town funds bonded

**TRANSPORTATION**

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**20. WASHINGTON /THAYER SIGNAL MODERNIZATION**

This appropriation is to construct new fully actuated traffic signals at this intersection. The current equipment was installed in 1949 and is Fire Station controlled only. There is a need for pedestrian control and side street control. This work will be coordinated with the new Police/Fire Station project.

Estimated Cost: \$110,000

Time Schedule: FY 2002 -- \$110,000 Town funds

**21. 61 PARK STREET NEW TRAFFIC SIGNAL**

These funds will be to design and construct new traffic signals to provide pedestrian actuated crossing of Park Street at Elderly Housing.

Estimated Cost: \$105,000

Time Schedule: FY 2003 -- \$15,000 Town funds  
FY 2004 -- \$90,000 Town funds

**22. HAMMOND/HEATH SIGNAL**

It has been apparent for some time that there is a need for traffic control signals at the intersection of Hammond and Heath Streets. This intersection is currently controlled by a stop sign on Heath Street, and a police officer is needed for the evening peak hours to assist motorists exiting Heath Street onto Hammond because the intersection is often blocked by cars backed up from the light at Route 9. In addition to the long delays, this intersection has a high rate of accidents. In FY 1997, \$30,000 was appropriated for the design of a traffic signal at Hammond/Heath Streets. Since then, the developer of the Life Care Facility on Tully Street was obligated, as part of a Board of Appeals decision, to engage the services of a consultant to design the signal for the Town. The signal design is at the 25% complete stage. The money requested is for the construction of the signal.

Estimated Cost: \$130,000

Time Schedule: FY 2002 -- \$130,000 Private funds

**23. LONGWOOD/KENT SIGNAL MODERNIZATION**

This 20 year old signal needs to be rebuilt and coordinated with the traffic signals at Chapel Street and the Riverway to provide efficient movement of traffic.

Estimated Cost: \$75,000

Time Schedule: FY 2002 -- \$75,000 Town funds

**24. SOUTH/GROVE STREET SIGNAL MODERNIZATION**

This project calls for the modernization of aging (1964) traffic signal equipment and the re-design of approaches to the intersection to provide better visibility, control, and safety.

Estimated Cost: \$145,000

Time Schedule: FY 2004 -- \$ 25,000 Town funded (plans and specs)  
FY 2005 -- \$120,000 Town funds (construction)

**25. CARLTON/MOUNTFORT STREET SIGNAL MODERNIZATION**

This 1965 signal is in need of modernization to provide efficient and safe control of this busy intersection.

Estimated Cost: \$110,000

Time Schedule: FY 2003 -- \$ 20,000 Town funds  
FY 2004 -- \$ 90,000 State funds

**26. VILLAGE CLOSED LOOP SIGNAL SYSTEM**

These funds are to install a computer signal system to coordinate six (6) intersections in the village area. This project is part of the mitigation package for the alteration of the Brookline Place project. Intersections affected include Brookline Ave./Washington St., Washington St./Boylston St., High St./Walnut St., Washington St./Station St., and Washington St./Harvard St.

Estimated Cost: \$250,000

Time Schedule: FY 2002 -- \$250,000 Grant funds

**27. INDEPENDENCE/BEVERLY/RUSSETT SIGNAL**

These funds are to modernize existing semi-actuated signal for a 1969 modified signal system. New signals would be fully actuated with pedestrian control for this signal, which is near the Baker School.

Estimated Cost: \$100,000

Time Schedule: FY 2004 -- \$20,000 Town funds  
FY 2005 -- \$80,000 Town funds

**28. WASHINGTON/SCHOOL/CYPRESS SIGNAL**

The signal at this location will be twenty-five years old when scheduled for modernization. The intersection is located at the convergence of two heavily traveled commuter routes complicated by high pedestrian school traffic.

Estimated Cost: \$125,000  
Time Schedule: FY 2004 -- \$ 25,000 Town funds  
FY 2005 -- \$100,000 Town funds

**29. WASHINGTON STREET AT PARK STREET - NEW SIGNAL**

Design and construction of new traffic signals to provide pedestrian control and side-street activation. Location has a high pedestrian use (high school) and heavily used collector intersections.

Estimated Cost: \$115,000  
Time Schedule: FY 2001 -- \$ 25,000 Town funds  
FY 2002 -- \$ 90,000 Town funds

**30. GROVE STREET/ALLANDALE ROAD - NEW SIGNAL**

Both streets are heavily used collector streets. Installations of new signals at a nearby location (Grove @ Newton) could change the function of the stop sign on Allendale Road requiring a signal.

Estimated Cost: \$135,000  
Time Schedule: FY 2004 -- \$ 25,000 Town funds  
FY 2005 -- \$110,000 Town funds

**31. NEWTON STREET/W. ROXBURY PARKWAY - NEW SIGNAL**

These appropriations are for preparing plans and specifications and constructing traffic signals at the intersection of Newton Street and the West Roxbury Parkway. This is a wide-open intersection with a high volume of traffic as well as high vehicle speeds.

Estimated Cost: \$175,000  
Time Schedule: FY 2004 -- \$ 25,000 Town funds  
FY 2005 -- \$150,000 State funds

**32. HARVARD/BABCOCK SIGNAL**

The controller in the signals at the intersection of Harvard and Babcock Streets is outdated and is not consistent with the new controllers installed at the other intersections on Harvard Street as part of the Harvard Street Reconstruction Project. With this work completed, all of the controllers on Harvard Street will be the same.

Estimated Cost: \$ 25,000  
Time Schedule: FY 2006 -- \$25,000 Town funds

**33. HORACE JAMES CIRCLE TRAFFIC CONTROL IMPROVEMENTS**

These funds will be for the preparation of a feasibility study and plans and specifications to deal with this high accident location. The circle is the convergence of five major streets and requires a detailed study to assess both vehicle and pedestrian traffic. Construction money is also identified to implement the results of this study.

Estimated Cost: \$170,000  
Time Schedule: FY 2004 -- \$ 20,000 Town funds  
FY 2005 -- \$150,000 State funds

**34. FIRE STATION #6 SIGNAL**

Modernization of the traffic signals (installed at this location in 1939) is necessary. Visibility signals are a major priority with this project.

Estimated Cost: \$60,000

Time Schedule: FY 2004 -- \$60,000 Town funds

**35. FIRE STATION #7 SIGNAL**

Modernization of Washington Street Fire Station traffic signal near Washington Square is needed to provide greater visibility.

Estimated Cost: \$60,000

Time Schedule: FY 2004 -- \$60,000 Town funds

**36. AUDIBLE SIGNALS (ADA)**

Install audible pedestrian signals at key locations throughout the Town for compliance with ADA requirements.

Estimated Cost: \$20,000

Time Schedule: FY 2001 -- \$10,000 Town funds  
FY 2002 -- \$10,000 Town funds

**37. SCHOOL ZONE SIGNAL REPLACEMENT PROGRAM**

School zones have signals that flash during designated school hours to warn motorists to reduce their speed to 20 mph. The school zone signals were installed in the late 1970's. The equipment will be approximately 25 years old in 2003 and should be replaced in a timely manner to ensure continued safe operation.

Estimated Cost: \$90,000

Time Schedule: FY 2001 -- \$30,000 Town funds  
FY 2003 -- \$30,000 Town funds  
FY 2005 -- \$30,000 Town funds

**PUBLIC WORKS**

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**ENGINEERING/HIGHWAY**

**38. HANDICAPPED ACCESS - CD**

This is a continuation of the program to provide HP ramps and access at public sidewalks and pathways in conformance with the latest mandated regulations. Program includes upgrading existing nonconforming ramps as well as addressing access issues at parks and playgrounds.

Estimated Cost: \$240,000

Time Schedule: FY 2001-2006 -- \$40,000 yearly, Community Development Block Grant funds

**39. STREET REHABILITATION - TOWN**

One of the goals of the Public Works Department is to bring the condition of the streets in the Town to a point where only periodic maintenance is required to keep the streets in good condition. With the pavement management program, the Department is able to establish a program to reach this goal.

Estimated Cost: \$5,106,000

Time Schedule: FY 2001 -- \$ 931,000 Town funds  
FY 2002 -- \$1,045,000 Town funds  
FY 2003 -- \$ 945,000 Town funds  
FY 2004 -- \$ 720,000 Town funds  
FY 2005 -- \$ 715,000 Town funds  
FY 2006 -- \$ 750,000 Town funds

**40. TRAFFIC CALMING STUDIES & IMPLEMENTATION**

Traffic calming studies have become a major request for the Transportation Department. To date, Walnut Street, Winchester Street, Reservoir Road, and Greenough Street (at the High School) have been identified as streets to be studied for traffic calming measures with the funds. The demand for studies has exceeded the funding. These appropriations will fund both the studies and implementation of the results.

Estimated Cost: \$785,000 Town funds

Time Schedule: FY 2001 -- \$250,000 implementation  
FY 2002 -- \$ 45,000 study  
FY 2003 -- \$ 55,000 study  
FY 2003 -- \$175,000 implementation  
FY 2004 -- \$200,000 implementation  
FY 2006 -- \$ 60,000 study

**41. STREET REHABILITATION - STATE**

The State provides monies under the Transportation Bond Bill for the Maintenance of certain streets under the Chapter 90 program. About 1/3 of Brookline's streets are eligible for 100 percent State reimbursement.

Estimated Cost: \$3,048,000

Time Schedule: FY 2001-2006 -- \$508,000 yearly, State funds

**42. STREET REHABILITATION - CD**

Certain streets are eligible for Community Development Block Grant funds. The Pavement Management Program identifies those streets in need. This year, Winchester Street will be done.

Estimated Cost: \$975,000

Time Schedule: FY 2001 -- \$ 60,000 Community Development Block Grant Funds  
FY 2002 -- \$ 60,000 Community Development Block Grant Funds  
FY 2003 -- \$220,000 Community Development Block Grant Funds  
FY 2004 -- \$215,000 Community Development Block Grant Funds  
FY 2005 -- \$210,000 Community Development Block Grant Funds  
FY 2006 -- \$210,000 Community Development Block Grant Funds

**43. NEWTON STREET LANDFILL AND LEAF/SNOW DUMP CLOSURE**

The Town has completed (and DEP has approved) the initial Site Assessment for both the front and rear landfills. A consultant has been selected to complete the more technical aspects of the landfill closure process, namely the Comprehensive Site Assessment, Corrective Action Alternative Analysis, and Final Closure/Post Closure Plan. These funds will be used to complete the necessary studies, design plans and specifications, and to complete the construction.

Estimated Cost: \$3,000,000

Time Schedule: FY 2002 -- \$3,000,000 Town funds, bonded

**44. TRANSFER STATION REHABILITATION**

The incinerator building is part of the "Transfer Station" and is in need of repair or demolition. This project is for the demolition of most, if not all, of the buildings and the renovation of any retained portions of the buildings or the construction of a new, smaller structure to provide a tipping area for solid waste transfer operations.

Estimated Cost: \$500,000

Time Schedule: FY 2001 -- \$500,000 Town funds

**45. TOWN-OWNED STREET LIGHTING REPLACEMENT**

The Town owns and maintains 212 street lights in the three major commercial areas: Coolidge Corner (94), Washington Square (42), and Brookline Village (76). Wiring and conduits need modernization and many of the fixtures need replacement. Extra funds are included in FY 2001 to purchase Town street lights currently owned by Boston Edison.

Estimated Cost: \$500,000

Time Schedule: FY 2001 -- \$300,000 Town funds  
FY 2003 -- \$100,000 Town funds  
FY 2004 -- \$100,000 Town funds

**46. PATH RECONSTRUCTION**

The Town maintains 11 public paths. The paths receive a heavy and concentrated use, which during the winter months, requires that the Town apply de-icing materials. These de-icing materials result in deterioration of the concrete stairs and metal handrails. Recently, several paths in the CDBG eligible area have been reconstructed. However, there are still several paths outside of the CDBG area to be reconstructed including Addington Path, Colbourne Path, Winthrop Path, and University Path.

Estimated Cost: \$300,000

Time Schedule: FY 2002 -- \$100,000 Town funds  
FY 2004 -- \$200,000 Town funds

**47. CARLETON STREET FOOTBRIDGE**

In 1998, \$25,000 was appropriated to study the Carlton Street Footbridge to determine what should be done with the bridge. The feasibility has been completed. The \$50,000 in FY2001 will be for preparation of plans and specifications to implement the accepted recommendations. The \$600,000 grant funding in FY2003 will be for the actual reconstruction should the decision be to remove the footbridge.

Estimated Cost: \$650,000

Time Schedule: FY 2001 -- \$ 50,000 Town funds  
FY 2003 -- \$600,000 Grant funds

**48. SIDEWALKS**

Within the last year, the DPW has received many complaints about the condition of the sidewalks. Some of the sidewalks are reconstructed as part of the street reconstruction program. However, this cannot keep up with the demand to replace deteriorated sidewalks. A consultant is inventorying and prioritizing the sidewalks so that a replacement program can be put in place.

Estimated Cost: \$600,000

Time Schedule: FY 2001-2006 -- \$100,000 annually, Town funds

**49. PARKING METERS**

This appropriation will allow for the completion of the replacement of the parking meters in the Town. In total, 2,400 meters will have been replaced. This funding will allow for the purchase of the remaining 280 meters.

Estimated Cost: \$105,000

Time Schedule: FY 2001 -- \$105,000 Town funds

**WATER/SEWER**

**50. WATER METER REPLACEMENT**

These funds are to purchase and install approximately 9,500 residential and commercial water meters to replace the existing metering system with state-of-the-art radio frequency transmitter remote reading meters. The useful life of the existing meter system is 15 years and it was installed in 1985. Installation of this new system will allow meters to be read from a central computer without the need to access each property and will provide the Town with the ability to bill monthly instead of quarterly for water and sewer service.

Estimated Cost: \$1,200,000

Time Schedule: FY 2001 -- \$1,200,000 Enterprise funds

**51. WASTEWATER SYSTEM IMPROVEMENTS**

This is for the rehabilitation of the wastewater collection system (sanitary sewer) based on the recommendations of the Wastewater System Master Plan. Construction projects will be grouped based on priorities established by the master plan and awarded over a two (2) year period.

Estimated Cost: \$6,000,000

Time Schedule: FY 2002 -- \$2,000,000 Enterprise funds, bonded  
FY 2004 -- \$2,000,000 Enterprise funds, bonded  
FY 2006 -- \$2,000,000 Enterprise funds, bonded

**52. STORM DRAIN IMPROVEMENTS**

These funds are for the investigation, remediation and rehabilitation of storm drain systems to remove potential sanitary sewer connections and to improve system capacity and discharge water quality. Funds expended to date have completed the remediation of the Longwood, Tannery and Village Brook systems as required by a Consent Agreement with EPA. Funds proposed for FY 2003 and FY 2005 will be used to implement the recommendations of the Wastewater Systems Master Plan and complete the investigation and remediation of the remaining seven drainage areas.

Estimated Cost: \$1,000,000

Time Schedule:       FY 2003 -- \$500,000 Enterprise funds bonded  
                          FY 2005 -- \$500,000 Enterprise funds bonded

**53.    SINGLETREE TANK REHABILITATION**

The water distribution system provides storage and operating reserves through the Singletree Hill water storage tank. Scheduled maintenance requires that the interior of the steel tank be painted every 10 years and the exterior be painted every 8 years. The interior was last completed in 1990 and the exterior in 1993. In order to continue the required maintenance on this 60 year old structure, this two year project includes painting both the interior and exterior surfaces of the tank in successive years.

Estimated Cost:       \$200,000

Time Schedule:        FY 2002 -- \$140,000 Enterprise funds  
                          FY 2003 -- \$ 60,000 Enterprise funds

**PARKS/PLAYGROUNDS**

**54.    LARZ ANDERSON PARK**

A master plan for the long-term rehabilitation of Larz Anderson Park was approved by the Town in 1988 and defined the work in several phases. The first phase was completed in 1990. Since that time, other improvements have been made, including rebuilding the ballfields, cleaning the lagoon, historic restoration work at the skating rink, and rebuilding the warming house (pavilion) at the skating rink. A seven member design review committee has been established and is in the process of prioritizing the next phase of work which will determine how this money is to be spent. Public meetings have been held as part of the process.

Estimated Cost:       \$1,100,000

Time Schedule:        FY 2001 -- \$700,000 Ryder Cup funds  
                          FY 2002 -- \$300,000 Town funds  
                          FY 2002 -- \$100,000 State/Federal Grant funds

**55.    OLMSTED PARK**

The Master Plan for the Emerald Necklace was approved in 1990, and proposed a multi-phased rehabilitation project for the Brookline portion of the Olmsted Park System. Road removal, a new walkway, and other site improvements from the Town line north to Washington Street have been completed as well as restoring the Allerton Overlook. This funding will be used to restore Olmsted's Babbling Brook and for daylighting the culvert from Willow Pond to Leverett Pond.

Estimated Cost:       \$400,000

Time Schedule:        FY 2001 -- \$300,000 Community Development Block Grant funds  
                          FY 2001 -- \$100,000 grant funds

**56.    RIVERWAY PARK**

This is a continuing project of the Olmsted Park/Riverway program. Prior appropriations included preparation of plans for Riverway Park. These appropriations are for the actual work, including reconstruction of the river bank which has eroded in some places as much as 10 feet, replacement of old trees, rebuilding the path system and regrading to prevent future erosion.

Estimated Cost:       \$425,000

Time Schedule:        FY 2003 -- \$125,000 State grant  
                          FY 2003 -- \$300,000 Town funds

**57. RUNKLE SCHOOL PLAYGROUND**

This project will complete the Runkle School Playground reconstruction project. Last year the playing field was regraded, irrigated and sodded. The appropriation will be used to install new playground equipment in approximately the same location as the existing outdated equipment. Walkways will also be replaced.

Estimated Cost: \$150,000

Time Schedule: FY 2001 -- \$150,000 Town funds

**58. PLAYGROUND EQUIPMENT, FIELDS & FENCING**

This amount allows for removal and replacement of older unsafe play equipment and spot repairs at various locations in an ongoing program. This is a town-wide program for the repair and replacement of fencing, benches, and minor field improvements. This program will prevent more expensive rehabilitation, which will be necessary if these items are continuously ignored.

Estimated Cost: \$1,290,000

Time Schedule: FY 2001 -- \$250,000 Town funds  
FY 2002 -- \$200,000 Town funds  
FY 2003 -- \$200,000 Town funds  
FY 2004 -- \$200,000 Town funds  
FY 2005 -- \$220,000 Town funds  
FY 2006 -- \$220,000 Town funds

**59. BOYLSTON PLAYGROUND**

This relatively small playground located in the Cameron Street neighborhood is in need of reconstruction. This funding will allow for installing new playground equipment, rebuilding the field and installing an irrigation system. \$25,000 was appropriated last year for design. The DRC has been convened and the design is underway. A summer 2000 construction is anticipated.

Estimated Cost: \$250,000

Time Schedule: FY 2001 -- \$250,000 Community Development Block Grant funds

**60. LONGWOOD PLAYGROUND (LAWRENCE PLAYGROUND)**

This funding will be used to re-grade and re-seed (or sod) the ballfield, landscaping and replacement of play equipment at two locations. The existing equipment does not meet current codes and regulations. This project will be done in conjunction with the Lawrence School renovation in order to obtain reimbursement funds.

Estimated Cost: \$385,000

Time Schedule: FY 2001 -- \$35,000 Town funds bonded  
FY 2002 -- \$350,000 Town funds bonded

**61. SPORTS FIELD STUDY**

The Town has a great need for additional sports fields. This funding will be used to study potential locations for new fields and/or more efficient use of existing fields.

Estimated Cost: \$25,000

Time Schedule: FY 2001 -- \$ 25,000 Town funds

**62. AMORY FIELD**

The three (3) ballfields need to be rehabilitated because of heavy use and the fields' particular site conditions. The existing topsoil will be excavated, screened and re-spread with soil enhancement being added. The fields will be re-graded to shed water to new area drains which will be tied into the new by-pass pipe installed as part of the Hall's Pond project. The infields will have new clay materials installed (in 2 of the 3 infields). Repair work to the backstops may be required.

Estimated Cost: \$385,000

Time Schedule: FY 2004 -- \$ 35,000 Town funds  
FY 2005 -- \$350,000 Town funds, bonded

**63. MONMOUTH PARK**

This relatively small park in a highly dense area is in need of rehabilitation, which will include new benches, special flower boxes, irrigation system, replacement of an iron fence and general landscaping boxes.

Estimated Cost: \$330,000

Time Schedule: FY 2005 -- \$ 30,000 CDBG funds  
FY 2006 -- \$300,000 CDBG funds

**64. ROBINSON PLAYGROUND**

The field surfaces will be rehabilitated, an irrigation system installed, fencing replacing, and landscaping will be accomplished in this project. This work was not included in the 1992 reconstruction project for the playground.

Estimated Cost: \$30,000

Time Schedule: FY 2002 -- \$30,000 Community Development Block Grant funds

**65. COOLIDGE PARK**

This small park (73,000 sf) in a highly dense area is in need of upgrading. The play equipment is outdated and does not meet safety and handicap access codes and does not meet handicap access codes. The walkway system needs to be replaced. Also landscaping and lighting must be addressed.

Estimated Cost: \$220,000

Time Schedule: FY 2002 -- \$ 20,000 Community Development Block Grant funds  
FY 2003 -- \$200,000 Community Development Block Grant funds

**CONSERVATION/OTHER OPEN SPACE**

**66. TREE REMOVAL AND REPLACEMENT**

The tree removal and replacement project represents the Tree Planting Committee's effort to balance the Town's street tree planting with removals. As other funding diminishes, it is crucial to expand the Town's commitment to plant the much-needed trees. CD funds will be used in CD eligible areas only.

Estimated Cost: \$915,000

Time Schedule: FY 2001 -- \$110,000 Town funds  
FY 2001 -- \$ 30,000 CDBG funds  
FY 2002 -- \$115,000 Town funds  
FY 2002 -- \$ 30,000 CDBG funds  
FY 2003 -- \$120,000 Town funds  
FY 2003 -- \$ 30,000 CDBG funds  
FY 2004 -- \$125,000 Town funds  
FY 2004 -- \$ 30,000 CDBG funds  
FY 2005 -- \$130,000 Town funds  
FY 2005 -- \$ 30,000 CDBG funds  
FY 2006 -- \$135,000 Town funds  
FY 2006 -- \$ 30,000 CDBG funds

**67. FORESTRY RESTORATION**

Over the years, little attention has been given to the trees in the Town's four (4) conservation properties. Storm damage, disease, and old age continue to reduce tree canopies. The funds would be utilized to perform forestry restoration work to prolong the life and restore the vitality of the trees. Where required, new trees need to be planted in anticipation of the ultimate loss of existing mature trees.

Estimated Cost: \$150,000

Time Schedule: FY 2001 -- \$40,000 Town funds  
FY 2003 -- \$50,000 Town funds  
FY 2005 -- \$60,000 Town funds

**68. HALL'S POND SANCTUARY**

Hall's Pond Sanctuary is located in North Brookline, adjacent to Amory Park. The Sanctuary serves an area in need of open space for passive recreational uses. Since its acquisition in 1975, the Sanctuary has not benefited from any capital investment. A design has been prepared and approved by the Conservation Commission, which incorporates pond dredging, stormwater diversion, wetlands restoration, vegetation management, and landscape improvements. The design was prepared through a public participation process and in coordination with the Parks & Recreation Commission. Included in the plan are improvements to Amory Park to provide for the needs of park users. The design will link Hall's Pond and Amory Woods and enable both to be managed as a unit. The project will restore ecological integrity to a property that has been overcome by pollution and lack of management. Its use for educational purposes will be greatly enhanced. The cost for the construction of the project was underestimated. \$50,000 of the funds appropriated for FY 2004 is required for FY 2001 in order to complete this phase of the project. FY 2004 funding addresses subsequent phases of the project.

Estimated Cost: \$225,000

Time Schedule: FY 2001 -- \$ 50,000 Town funds  
FY 2004 -- \$175,000 Town funds

**69. D. BLAKELY HOAR SANCTUARY**

D. Blakely Hoar Sanctuary is located adjacent to the Baker School and off Beverly Road. The 25 acre property abuts the Leatherbee Woods property owned by the Boston Natural Areas Fund and the Hancock Woods Reservation owned by the Metropolitan District Commission. The Sanctuary has a boardwalk and trail system, which has deteriorated beyond repair and is a significant safety hazard. The first portion of the boardwalk has been completed, however there are insufficient funds in the FY2000 budget to complete the larger and more complicated section in the rear of the sanctuary.

Estimated Cost: \$35,000

Time Schedule: FY 2001 -- \$35,000 Town funds

**70. TOWN/SCHOOL GROUNDS REHAB**

The grounds around many of the Town's school and municipal buildings have deteriorated over the years and are in need of significant landscaping restoration work.

Estimated Cost: \$810,000

Time Schedule: FY 2001 -- \$110,000 Town funds  
FY 2002 -- \$120,000 Town funds  
FY 2003 -- \$130,000 Town funds  
FY 2004 -- \$140,000 Town funds  
FY 2005 -- \$150,000 Town funds  
FY 2006 -- \$160,000 Town funds

**71. OLD TOWN GREEN**

The Old Town Green located at the intersection of Walnut and Warren Streets and was the location of the first Town center and the first Town Hall. The Green was the assembly point for the local militia. This funding is for the renewal of the green areas, redesign of the perimeter curb landscaping, and an irrigation system. This project is being moved up one year to coincide with the traffic calming project for Walnut Street which is scheduled for the year 2000.

Estimated Cost: \$30,000

Time Schedule: FY 2001 -- \$30,000 Town funds

**72. MUDDY RIVER & WILLOW PONDS**

Willow Pond, located in Olmsted Park adjacent to Willow Pond Road, is currently in an extremely poor state due to oil pollution and sedimentation. To restore the Pond's ecological and aesthetic qualities, the contaminated sediment must be removed. Dredging work must await the remediation of the Kendall Street garage site, which is thought to be the source of the oil. Given the likelihood that the sediment is contaminated, it will require special disposal. The Pond and the Kendall Street garage are considered one site according to the DEP, therefore it is very likely that the Town will be required to remove the contaminated sediment. Funds for this work will come from Ryder Cup funds.

Estimated Cost: \$500,000

Time Schedule: FY 2001 -- \$500,000 Enterprise bond funds

**73. LOST POND SANCTUARY**

Lost Pond Sanctuary is contiguous to the Metropolitan District Commission conservation land and City of Newton conservation land. The inter-connected trails form a network for passive recreation and nature appreciation. There is a need for site, access, and connectivity improvements. Improvements will be coordinated with the City of Newton, MDC, and the Land Use Study for the Town landfill that is contiguous with this property. Improvements include: trail improvements, signage, access, maps, and control of invasive vegetation such as phragmites and purple loosestrife. The work will be coordinated with the landfill closure.

Estimated Cost: \$60,000

Time Schedule:       FY 2001 -- \$35,000 Town funds  
                          FY 2004 -- \$25,000 Town funds

**74.   HEMLOCK ASSESSMENT AND HAZARD TREE REMOVAL DUE TO INSECT PESTS**

The funds requested are for the assessment, monitoring, and management of the Hemlock trees in Brookline including hazard tree removal. In Brookline, natural stands of hemlock occur on public open spaces at Baker School, Dane Park, D. Blakely Hoar Sanctuary, Larz Anderson Park, Public Works Municipal Center, Putterham Woods/Golf Course, the Soule Recreation Center, and the Walnut Hills Cemetery. Approximately 3,380 Eastern Hemlock trees are located on Town properties. The majority of Hemlock trees in Brookline are at the D. Blakely Soar Sanctuary (1,220) and Putterham Woods (1,286). The tree is also found on many private properties throughout Brookline. The Woolly Adelgid is a parasitic insect that threatens to extinguish the Eastern Hemlock tree in the Eastern United States. To date, there are limited solutions to save the Hemlock species. Many of the Eastern Hemlocks have been infested with the Woolly Adelgid and, without treatment, may die.

Estimated Cost:       \$180,000

Time Schedule:       FY 2001 -- \$60,000 Town funds  
                          FY 2002 -- \$40,000 Town funds  
                          FY 2003 -- \$40,000 Town funds  
                          FY 2004 -- \$40,000 Town funds

**75.   LEVERETT POND DREDGING**

A visible sand and gravel bar exists at the end of the Village Brook drain in Leverett Pond. The sand bar adversely affects the flow of water, water quality, and historic landscape. The project will remove the sand bar and restore the riverbed to its original configuration. The DPW hired a consultant to determine the quantity of sand to be removed as well as an estimate to do this work.

Estimated Cost:       \$210,000

Time Schedule:       FY 2001 -- \$210,000 CDBG funds

**RECREATION**

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**76.   LARZ ANDERSON SKATING RINK**

The outdoor rink atop Larz Anderson Park was reconstructed in 1975. The iron piping carrying the brine refrigeration solution is in need of replacement. This work involves removal of the concrete ice rink floor and replacement of circulation piping and concrete. The new rink floor will be designed to be used also for in-line skating. Multiple valves to allow sectional repairs will separate all piping. The "open air" brine system will be converted to a "closed" system and the dasher boards will be repaired and replaced as needed. An extension of the skating season will be possible due to the improved refrigeration capacity.

Estimated Cost:       \$450,000

Time Schedule:       FY 2001 -- \$450,000 Town Funds

**77.   TENNIS COURTS**

There are 32 tennis courts throughout the Town. Three (3) locations have been identified for rehabilitation in FY 2002. Rehabilitation work will include fence replacement or repair, resurfacing of the courts, and new net posts with foundations.

Estimated Cost:       \$300,000

Time Schedule:       FY 2002 - \$100,000 Town Funds  
                          FY 2003 - \$100,000 Town Funds  
                          FY 2005 - \$100,000 Town Funds

**78. SWIMMING POOL**

Complete renovation of both shower rooms at the Swimming Pool is needed to repair and improve both areas. The work will include installing new plumbing fixtures as well as replacing all water pipes and drains. Also, the shower stalls are in need of replacement and the shower areas for the handicapped need to be updated. Energy savings and water conservation will result with the installation of automatic shut off valves at all hot and cold water fixtures. Other projects include replacement of the present ventilation system and windows. Also, all lockers, which are starting to show signs of rust, will be replaced.

Estimated Cost:       \$845,000 Town funds

Time Schedule:       FY 2003 -- \$150,000 (renovate showers)  
                          FY 2003 -- \$ 45,000 Town funds (plans and specs for ventilation system & windows)  
                          FY 2004 -- \$450,000 Bonded (replace ventilation system and windows)  
                          FY 2006 -- \$200,000 Town funds (replace lockers)

**79. GOLF COURSE PHASE III AND CLUBHOUSE**

Work to be done in Phase III includes rebuilding of tees and greens at numerous holes throughout the course, renovation of the irrigation and remote control systems, renovation of numerous sand bunkers, the rehabilitation of various cart paths, and a study of the drainage problems to identify possible solutions. A large portion of the design work for Phase III was completed in Phase II. Also, improvements to the interior of the clubhouse will be started. The initial work will include ADA compliance elements and the installation of a new heating system.

Estimated Cost:       \$1,500,000

                          FY 2001 -- \$700,000 Ryder Cup  
                          FY 2001 -- \$300,000 Golf enterprise funds bonded  
                          FY 2002 -- \$500,000 Golf enterprise funds bonded

**80. SOULE RECREATION CENTER**

The Soule Recreation Center, a facility that was leased for private day care from 1989 to 1994, has been re-established as a recreation center. The Town purchased this building for recreational use in 1961 (it was constructed in 1897). Presently, some of the programs being conducted at the Soule Recreation Center include: the R.A.F.T. Clubhouse and computer center, tap and ballet classes, "easyrobic" classes for adults, kids crafts, an after-school program, a morning play program, neighborhood meetings, and an additional day camp for children ages 4, 5, and 6. The roof at the Soule Center was replaced in FY 1995 and the Gymnasium was renovated in FY 1996. Items which will be included in this renovation include: installation of an elevator for ADA compliance, the installation of a new heating system with multiple zone control, the installation of new energy efficient doors and windows, an electrical upgrade, new insulation, the replacement of floor surfaces and an upgrade of plumbing items.

Estimated Cost:       \$600,000

Time Schedule:       FY 2002 -- \$600,000 Town funds bonded

**81. WALDSTEIN PLAYGROUND BUILDING**

This small building contains two (2) toilet areas, a meeting room, a storage area for the Town's contracted tennis pro and a small utility room. This building is used seasonally by the tennis players and our summer soccer camp. This structure is in need of repairs, such as new windows, doors, roof and plumbing fixtures.

Estimated Cost: \$20,000

Time Schedule: FY 2006 -- \$20,000 Town funds (plans and specs.)

**82. SKATE PARK**

A feasibility study for the Skate Park will be completed in time for the 2000 Annual Town Meeting. Estimates from the feasibility contractor to construct a minimum skate park are in hand. These estimates, which include concrete ramps rather than wooden ramps, are reflected in the requested amount. These funds will be used to construct a skate park. Location of the park will be determined through the feasibility study.

Estimated Cost: \$75,000

Time Schedule: FY 2001 -- \$75,000 Town funds

**83. RECREATION MASTER PLAN**

The Park and Recreation Commission will contract with a professional firm to complete a comprehensive assessment and master plan for the Recreation Department. This plan will include the following:

- Provide information about the feasibility and needs for new developments both in programs and facilities.
- Evaluate current and ongoing recreation opportunities in terms of individuals' desires to participate.
- Investigate how citizens of the community wish to utilize their discretionary time, and how the organization may coordinate its efforts in these areas.
- Investigate new revenue producing programs and research new public/private opportunities.

This study will be done in coordination with the Townwide Comprehensive Plan. The study will include detailed recommendations for future planning.

Estimated Cost: \$25,000

Time Schedule: FY 2001 -- \$25,000 Town funds

**SCHOOL**

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**84. FIRE ALARM UPGRADE**

The Fire Alarm systems within the school buildings are of various vintage and design. Some of the systems should be replaced and some must be updated to meet the new fire and ADA codes. The funds appropriated will be used to replace and update systems where needed.

Estimated Cost: \$250,000

Time Schedule: FY 2001 -- \$250,000 Ryder Cup funds

**85. SCHOOL BUILDINGS - LIFE SAFETY**

This appropriation is for the continuing replacement/upgrading of sprinkler systems and upgrading of stairways and means of egress in the elementary schools.

Estimated Cost: \$500,000

Time Schedule: FY 2001 -- \$500,000 Enterprise funds bonded

**86. UPGRADE SCHOOL/TOWN ENERGY MANAGEMENT SYSTEM**

These funds are requested in order to update the energy management systems throughout the School/Town system. Obtaining parts and service on the existing system as well as resultant down time have become major problems. When working properly, the operating system is monitored remotely and is on an automatic time schedule. This eases the labor required to operate and maintain the heating and ventilating systems, as well as troubleshoot any problems that arise. Andover Controls Corporation, the manufacturer of the existing system, no longer supports it because of its age. The system is fourteen years old, and the control center should be replaced and expanded to cover the Health Center.

Estimated Cost: \$800,000

Time Schedule: FY 2002 -- \$800,000 Ryder Cup funds

**87. NETWORK WIRING OF SCHOOLS**

This appropriation is requested in order to install fiber optic wiring throughout the Brookline Schools to link them to the computer network system.

Estimated Cost: \$200,000

Time Schedule: FY 2001 -- \$200,000 Town funds

**88. LYNCH RECREATION CENTER**

This building was completely renovated in 1975. The windows, although double layer glass, are in need of replacement. These windows are spring loaded for opening and closing, and many springs have broken, making it impossible to open the windows. This project will also include replacement of all gutters and downspouts.

Estimated Cost: \$245,000

Time Schedule: FY 2001 -- \$ 20,000 Town funds (plans and specs for window replacement)  
FY 2002 -- \$150,000 Town funds (window replacement)  
FY 2006 -- \$ 75,000 Town funds (boiler)

**89. DEVOTION SCHOOL**

This appropriation is targeted to a number of elements including upgrading the auditorium, replacing windows, replacing the gym floor, and a study for a leaking garage. It will also be used for repairing the roof, installing exhaust fans with carbon monoxide monitoring, a space utilization study, and painting the entire school

Estimated Cost: \$1,422,000

Time Schedule: FY 2001 -- \$ 50,000 Town funds (New gym floor)  
FY 2002 -- \$300,000 Town funds (Rehab auditorium)  
FY 2004 -- \$ 60,000 Town funds (Plans & specs to repair garage/exhaust fans/plans)  
FY 2005 -- \$ 50,000 Town funds (Plans and specs to replace windows)  
FY 2005 -- \$ 20,000 Town funds (Space utilization study)

FY 2005 -- \$400,000 Town funds (Bonded -- repair garage/exhaust fans)  
 FY 2006 -- \$330,000 Town funds (Bonded - replace windows)  
 FY 2006 -- \$200,000 Town funds (Space utilization study)  
 FY 2006 -- \$ 12,000 Town funds (Plans and specs to paint entire school)

**90. DRISCOLL SCHOOL**

This request is primarily for new unit ventilators. Current HVAC equipment is over 50 years old and in very poor condition. Other significant elements of this request include \$350,000 to upgrade the cafeteria. The existing cafeteria space, part of the 1910 building, has been in disrepair for some time. The floor layout and use of space will be reorganized and better utilized. Also, this project will replace windows and improve safety maintenance and upkeep. Finally, the entire school will be painted.

Estimated Cost: \$1,700,000 Town funds

Time Schedule: FY 2001 -- \$900,000 Town funds bonded (Replace heating units & piping)  
 FY 2002 -- \$ 35,000 Town funds (Renovate cafeteria)  
 FY 2003 -- \$350,000 Town funds bonded (Renovate cafeteria)  
 FY 2003 -- \$ 50,000 Town funds (Plans and specs for windows in library & 1930 wing)  
 FY 2004 -- \$350,000 Town funds bonded (Windows in library & 1930 wing)  
 FY 2006 -- \$ 15,000 Town funds (Plans and specs to paint entire school)

**91. RUNKLE SCHOOL RENOVATION**

This funding request is for the replacement of the oil burners in the Runkle School with dual burner capacity. The existing burners are in poor condition and repair parts can no longer be obtained. The FY 2005 funds are for plans for interior renovations, which will allow better space utilization.

Estimated Cost: \$120,000

Time Schedule: FY 2001 -- \$60,000 Town funds (Replace oil burners)  
 FY 2005 -- \$60,000 Town funds (Space feasibility study)

**92. PIERCE SCHOOL PRIMARY**

These funds will be to point masonry shell and repair brownstone/brick. The existing masonry joints are open and cracked. Damage is escalating due to water penetration, freezing and opening the joints. Other work includes the removal of the boiler in the basement of the building, the installation of an oil tank and the renovation of the auditorium.

Estimated Cost: \$630,000

Time Schedule: FY 2001 -- \$ 15,000 Town funds (Paint and upgrade interior)  
 FY 2001 -- \$130,000 Town funds (Remove boiler/replace oil tank)  
 FY 2001 -- \$150,000 Ryder Cup funds (Waterproof/re-point building)  
 FY 2001 -- \$ 20,000 Town funds (Remodel bathrooms)  
 FY 2001 -- \$ 50,000 Town funds (Repair tower)  
 FY 2002 -- \$150,000 Town funds (Paint and upgrade interior)  
 FY 2002 -- \$115,000 Town funds (Remodel bathrooms)

**93. HEATH SCHOOL**

When the addition was made to this school it was agreed to extend the sprinklers throughout the building at a later date. With these funds, we will now be completing the sprinklers in this building. Other work includes improvements to the faculty area and new oil burners.

Estimated Cost: \$372,000

Time Schedule: FY 2001 -- \$200,000 Town funds (Install sprinklers)  
FY 2001 -- \$ 12,000 Town funds (Plans and specs to upgrade faculty area plans)  
FY 2002 -- \$100,000 Town funds (Upgrade faculty area plans)  
FY 2004 -- \$ 60,000 Town funds (New oil burners)

**94. LAWRENCE SCHOOL**

In FY 1996, a Phase I space utilization study was undertaken to address the needs of the expanding student body at Lawrence School. The study documented a number of facility issues, including the need to upgrade mechanical systems, improve accessibility, and provide better instructional space. Phase II involves the development of a master plan for building renovations, alternative design layouts, evaluation of feasibility and costs, and development of an implementation strategy. FY 2001 funding is for the architectural and engineering plans and specifications for the renovation of the school. Construction funds are included for FY 2002.

Estimated Cost: \$14,000,000

Time Schedule: FY 2001 -- \$ 900,000 Town funds bonded (Plans and specs)  
FY 2002 -- \$13,100,000 Town funds bonded (Construction)

**95. LINCOLN SCHOOL (Kennard Road)**

This item is to install an oil tank and replace boiler burners. It also covers painting the entire school.

Estimated Cost: \$220,000

Time Schedule: FY 2005 -- \$ 25,000 Town funds (Plans and specs to replace burners/install oil tank)  
FY 2006 -- \$180,000 Town funds (Replace burners/install oil tank)  
FY 2006 -- \$ 15,000 Town funds (Plans and specs to paint building)

**96. OLD LINCOLN SCHOOL**

In order to comply with the ADA laws and meet the needs of handicapped students, an elevator must be installed. Other work includes replacing gutters and downspouts, pointing building, and repairing masonry.

Estimated Cost: \$632,000

Time Schedule: FY 2003 -- \$ 15,000 Town funds (Plans & specs to replace gutters & downspouts)  
FY 2004 -- \$150,000 Town funds (Replace gutters and downspouts)  
FY 2005 -- \$ 45,000 Town funds (Plans and specs to point exterior)  
FY 2006 -- \$450,000 Town funds bonded (Point exterior)

**97. BALDWIN SCHOOL**

Repairs and renovations to the exterior and mechanical systems of this older school building are required. This appropriation is for plans and specifications for the complete renovation of this building.

Estimated Cost: \$300,000

Time Schedule: FY 2006 -- \$300,000 Town funds bonded (Renovation plans and specs)

**98. PIERCE SCHOOL**

This project includes the repair of ventilators and replacement of some windows so that they can be opened. It will replace HVAC equipment to provide for more fresh air, better climate control, and zoning. This building was

originally designed to be used with an air conditioning system and not to have operable windows. The air conditioners are not used thus we need to be able to open the windows to allow fresh air into the building. This would allow the forced air handlers to be shut down during certain weather conditions.

Estimated Cost: \$742,000

Time Schedule: FY 2002 -- \$800,000 Town funds (Replace HVAC units)  
FY 2003 -- \$50,000 Town funds (Plans and specs to replace carpet)  
FY 2004 -- \$350,000 Town funds bonded (Replace carpet)  
FY 2005 -- \$40,000 Town funds (Pland and specs to renovate auditorium)  
FY 2006 -- \$300,000 Town funds bonded (Renovate auditorium)

**99. SCHOOL BUILDING ROOF REPLACEMENT**

All roofs on School and Town buildings have been recently replaced. These funds are necessary to set up a program within the CIP to maintain and replace these roofs in a timely manner.

Estimated Cost: \$50,000

Time schedule: FY 2006 -- \$50,000 Town funds

**100. SCHOOL BUILDING EXTERIOR POINTING**

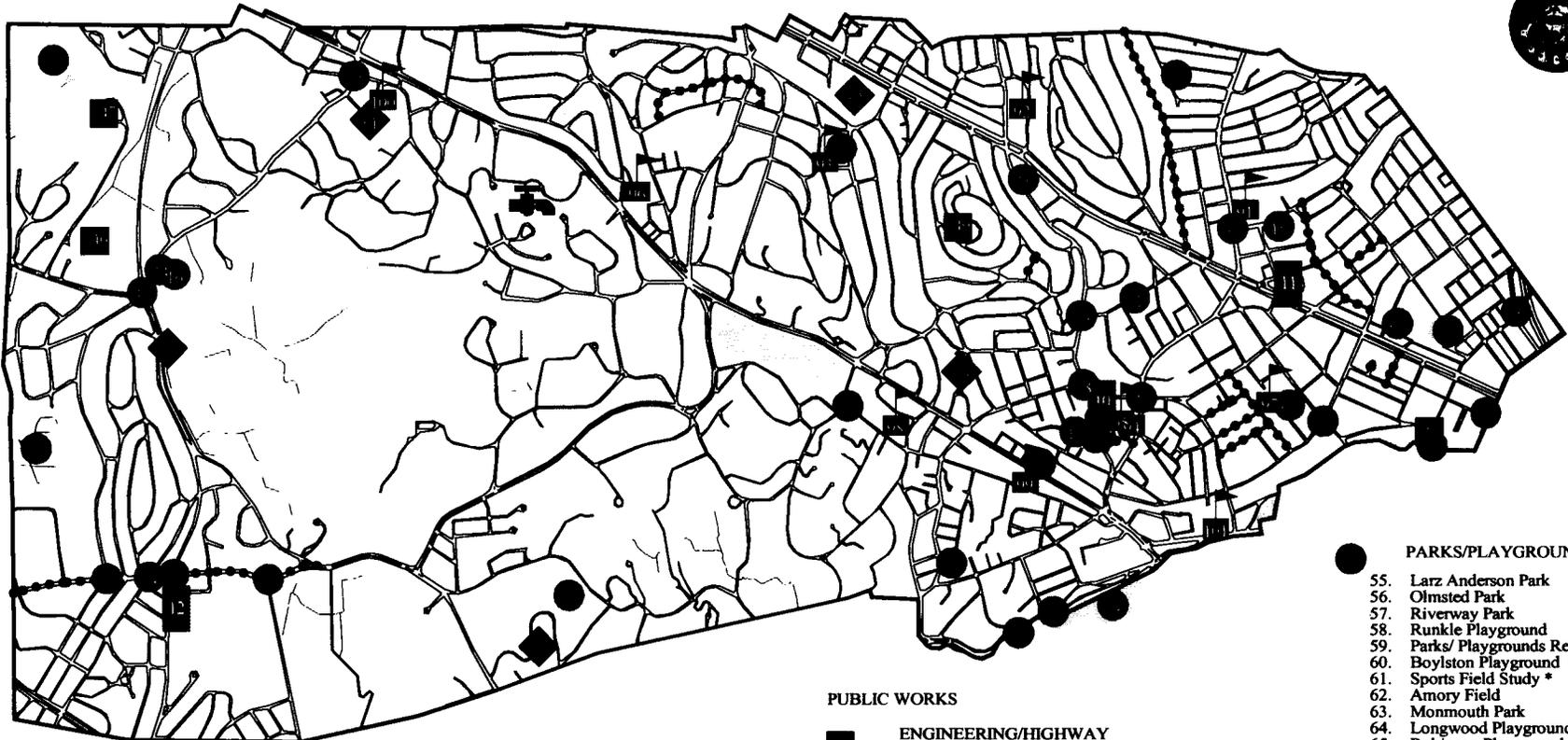
All school building exteriors have recently been repaired. These funds are necessary to set up a program within the CIP to regularly repoint these buildings in a timely manner.

Estimated Cost: \$50,000

Time Schedule: FY 2006 -- \$50,000 Town funds

# Recommended Capital Improvement Project Locations (FY2001-2006)

**BROOKLINE**  
GIS



- GENERAL GOVERNMENT**
- 1. Town Hall
  - 2. Replace Voting Machines \*
  - 3. Town/School Financial Mgt System \*
  - 4. Public Buildings-Furnishings & Equipment \*
  - 5. Asbestos Removal Town/School \*
  - 6. ADA Renovations Town/School \*
  - 7. Emergency Generator Study All Bldgs \*
  - 8. Building Maint. Facility Renovation \*
  - 9. Historic Buildings Renovations \*

- PUBLIC SAFETY**
- 13. Public Safety Facility Renovation (Police Dept.)
  - 14. Public Safety Communications Equip. (Fire Dept.)\*
  - 15. Fire Station #5
  - 16. Fire Training Building
  - 17. Refurbishment of Fire Apparatus \*
  - 18. Replace Engine #1 \*
  - 19. Replace Engine #5 \*

- TRANSPORTATION**
- 20. Washington/Thayer St. Signal Modernization
  - 21. 61 Park St. Pedestrian Signal
  - 22. Hammond/Heath Signal
  - 23. Longwood/Kent Signal Modernization
  - 24. South/Grove St. Signal Modernization
  - 25. Carleton/Mountfort St. Signal Modernization
  - 26. Village Closed Loop Signal System
  - 27. Independence/Beverly/Russett Signal
  - 28. Washington/School/Cypress Signal
  - 29. Washington St. @ Park St. New Signal
  - 30. Grove St. @ Allendale Rd. New Signal
  - 31. Newton St. @ W. Roxbury Pkwy New Signal
  - 32. Harvard/Babcock Signal
  - 33. Horace James Circle Improvement
  - 34. Fire Station #6
  - 35. Fire Station #7
  - 36. Audible Signals (ADA) \*
  - 37. School Zone Signal Replacement Program \*

- LIBRARY**
- 10. Main Library
  - 11. Coolidge Corner Library
  - 12. Putterham Library

- PUBLIC WORKS**
- ENGINEERING/HIGHWAY**
- 38. Handicapped Access (ADA)- CD \*
  - 39. Street Rehabilitation - Town
  - 40. Streets -Traffic Calming Studies \*
  - 41. Streets -Traffic Calming Implementation \*
  - 42. Street Rehabilitation - State
  - 43. Street Rehabilitation - CD & STATE
  - 44. Sidewalks\*
  - 45. Parking Meters\*
  - 46. Newton St. Landfill Closure/Leaf-Snow Dump
  - 47. Transfer Station Rehabilitation
  - 48. Street Light Replacement \*
  - 49. Path Reconstruction
  - 50. Carleton St Footbridge

- WATER/SEWER**
- 51. Storm Drain Improvement \*
  - 52. Wastewater System Improvements \*
  - 53. Water Meter Replacement \*
  - 54. Singletree Tank Rehab

- RECREATION**
- 77. Skating Rink Piping
  - 78. Tennis Courts\*
  - 79. Swimming Pool
  - 80. Golf Course Clubhouse
  - 81. Soule Rec Center Renovation
  - 82. Waldstein Building
  - 83. Skate Park\*
  - 84. Recreation Master Plan \*

- PARKS/PLAYGROUNDS**
- 55. Larz Anderson Park
  - 56. Olmsted Park
  - 57. Riverway Park
  - 58. Runkle Playground
  - 59. Parks/ Playgrounds Rehab & Upgrade \*
  - 60. Boylston Playground
  - 61. Sports Field Study \*
  - 62. Armory Field
  - 63. Monmouth Park
  - 64. Longwood Playground
  - 65. Robinson Playground
  - 66. Coolidge Park

- CONSERVATION/OTHER OPEN SPACE**
- 67. Tree Removal and Replacement \*
  - 68. Forestry Restoration \*
  - 69. Hall's Pond Sanctuary
  - 70. Hoar Sanctuary
  - 71. Town/School Grounds Rehab \*
  - 72. Old Town Green
  - 73. Muddy River & Willow Ponds
  - 74. Leverett Pond Dredging
  - 75. Lost Pond Sanctuary
  - 76. Hemlock Tree Removal \*

- SCHOOL**
- 85. Fire Alarm Upgrading- Systemwide \*
  - 86. Life Safety Systems Upgrade \*
  - 87. Upgrade School/ Town Energy Mgt System \*
  - 88. Roof Replacement Plans \*
  - 89. Bldg. Exterior Painting Plans \*
  - 90. Network Wiring of Schools \*
  - 91. Devotion School
  - 92. Driscoll School
  - 93. Runkle School
  - 94. Pierce Primary School
  - 95. Pierce
  - 96. Heath School
  - 97. Lawrence School
  - 98. Lincoln School
  - 99. Old Lincoln School
  - 100. Baldwin School
  - 101. Lynch Rec Center

\* Not shown on map because of difficulty of graphical representation. Map created by the GIS Group in the Information Technologies Department.

