

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: INFORMATION TECHNOLOGY #2-Information Technology Hardware & Software Replacement

I. PROJECT TYPE: Information Technology & Communications

II. LOCATION: City Agencies

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	<input type="text" value="M"/> Safety	<input type="text" value="L"/> Facility Cond.	<input type="text" value="M"/> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="M"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="H"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="L"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="L"/> Timeliness	Parks
	<input checked="" type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The focus of the IT Master Plan is to maintain a secure and stable IT environment.

This project is intended to provide a replacement program to protect the City's initial and future investments. Though not on the cutting edge of technology, the replacement program assures that City technology supports employee productivity and services to City residents.

Initially implemented using the industry standard three year replacement cycle, the program was adjusted to a four year cycle for desktop computers in FY07 to better control cost. Servers are to be replaced on a 5 year cycle. Other equipment such as switches, routers, firewalls, and printers shall be replaced as needed.

SERVICE IMPACT: The City is dependent upon technology in all aspects of its day-to-day and longer term operations. This CIP is critical to assuring City employees that the systems on which they depend will work reliably. As the City continues with the ERP initiative which increases the integration among departmental resources, this dependence is even more critical. Not only will older equipment breakdown and slow the delivery of applications, but application software version improvements require reasonably up-to-date hardware and software to work at all, let alone deliver enhanced/improved features.

IMPACT IF NOT FUNDED: The MIS Master Plan has provided a cost-effective mechanism to stay reasonably current with technology at a modest consistent annual investment. Without this investment, not only will the City fall behind in offering the services demanded by the community, but systems will become technologically obsolete and fail, jeopardizing service delivery and possibly public safety. Correcting such a situation after failure, is much more expensive than maintaining the City's technology investment on an on-going basis.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 1998

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

4

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: INFORMATION TECHNOLOGY #2-Information Technology Hardware & Software Replacement

**VI. PROJECT FUND SUMMARY**

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	115,500	131,100	154,500	135,000	107,640	131,040	154,500	135,000	120,000	131,000	1,315,280
Golf	Capital Transfer	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	30,000
Parking	Capital Transfer	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	30,000
Sewer	Capital Transfer	12,200	20,160	15,840	20,760	11,900	20,160	15,840	20,760	11,800	21,000	170,420
Water	Capital Transfer	18,400	13,440	23,760	13,840	17,900	13,440	23,760	13,840	17,600	14,000	169,980
Arena	Capital Transfer	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
General	Capital Close-out	3,910	0	0	0	0	0	0	0	0	0	3,910
Total		157,010	171,700	201,100	176,600	144,440	171,640	201,100	176,600	156,400	173,000	1,729,590

**VII. PROJECT FUND DETAIL**

Fiscal Year	Fund Type	Amount	Action
2016	General Capital Transfer	115,500	Replace computers, network switches, monitors (\$117,000). Replace end-of-life servers (\$20,000). Printers (\$5,000). Software upgrades (\$10,000).
	Water Capital Transfer	18,400	Water share of above
	Sewer Capital Transfer	12,200	Sewer share of above
	General Capital Close-out	3,910	Closeout Share.
	Parking Capital Transfer	3,000	Parking share of above
	Golf Capital Transfer	3,000	Golf share of above
	Arena Capital Transfer	1,000	Arena share of above
		\$157,010	2016 Subtotal
2017	General Capital Transfer	131,100	Replace hardware and monitors (\$40,000). Replace main firewall (\$30,000). Replace end-of-life servers (\$20,000). Printers (\$10,000). Software upgrades (\$25,000). Replace Fire Department apparatus mobile computers (\$50,000).
	Sewer Capital Transfer	20,160	Sewer share of above
	Water Capital Transfer	13,440	Water share of above
	Parking Capital Transfer	3,000	Parking share of above

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	INFORMATION TECHNOLOGY	#2-Information Technology Hardware & Software Replacement	
	Golf Capital Transfer	3,000	Golf share of above
	Arena Capital Transfer	1,000	Arena share of above
		\$171,700	2017 Subtotal
2018	General Capital Transfer	154,500	Replace Hardware, computers, laptops, monitors (\$60,000). Replace end-of-life servers (\$20,000). Training for current and new employees, (\$10,000). Printers (\$10,000). Software upgrades (\$25,000). Replace Police Department mobile computers (\$80,000)
	Water Capital Transfer	23,760	Water share of above
	Sewer Capital Transfer	15,840	Sewer share of above
	Parking Capital Transfer	3,000	Parking share of above
	Golf Capital Transfer	3,000	Golf share of above
	Arena Capital Transfer	1,000	Arena share of above
		\$201,100	2018 Subtotal
2019	General Capital Transfer	135,000	Replace hardware, computers, laptops, monitors (\$110,000). Replace end-of-life servers (\$20,000). Training for current and new employees, (\$10,000). Printers (\$10,000). Software upgrades (\$25,000).
	Sewer Capital Transfer	20,760	Sewer share of above
	Water Capital Transfer	13,840	Water share of above
	Golf Capital Transfer	3,000	Golf share of above
	Parking Capital Transfer	3,000	Parking share of above
	Arena Capital Transfer	1,000	Arena Share of above
		\$176,600	2019 Subtotal
2020	General Capital Transfer	107,640	Replace hardware, computers, laptops, monitors (\$80,000). Replace end-of-life servers (\$20,000). Training for current and new employees, (\$10,000). Printers (\$10,000). Software upgrades (\$25,000).
	Water Capital Transfer	17,900	Water share of above
	Sewer Capital Transfer	11,900	Sewer share of above
	Parking Capital Transfer	3,000	Parking share of above
	Golf Capital Transfer	3,000	Golf share of above

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	INFORMATION TECHNOLOGY	#2-Information Technology Hardware & Software Replacement	
	Arena Capital Transfer	1,000	Arena share of above
		\$144,440	2020 Subtotal
2021	General Capital Transfer	131,040	Replace hardware, computers, laptops, monitors (\$110,000). Replace 1/5 end-of-life servers (\$20,000). Training for current and new employees, (\$10,000). Printers (\$10,000). Software upgrades (\$25,000).
	Sewer Capital Transfer	20,160	Sewer share of above
	Water Capital Transfer	13,440	Water share of above
	Golf Capital Transfer	3,000	Golf share of above
	Parking Capital Transfer	3,000	Parking share of above
	Arena Capital Transfer	1,000	Arena share of above
		\$171,640	2021 Subtotal
2022	General Capital Transfer	154,500	Replace hardware, computers, laptops, monitors (\$80,000). Replace end-of-life servers (\$20,000). Training for current and new employees, (\$10,000). Printers (\$10,000) Software upgrades (\$25,000). Replace Fire Department apparatus mobile computers (\$60,000).
	Water Capital Transfer	23,760	Water share of above
	Sewer Capital Transfer	15,840	Sewer share of above
	Parking Capital Transfer	3,000	Parking share of above
	Golf Capital Transfer	3,000	Golf share of above
	Arena Capital Transfer	1,000	Arena share of above
		\$201,100	2022 Subtotal
2023	General Capital Transfer	135,000	Replace hardware, computers, laptops, monitors (\$50,000). Replace end-of-life servers (\$20,000). Training for current and new employees (\$10,000). Printers (\$10,000). Software upgrades (\$25,000). Replace Police Department mobile computers (\$80,000).
	Sewer Capital Transfer	20,760	Sewer share of above
	Water Capital Transfer	13,840	Water share of above
	Golf Capital Transfer	3,000	Golf share of above
	Parking Capital Transfer	3,000	Parking share of above

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**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	INFORMATION TECHNOLOGY	#2-Information Technology Hardware & Software Replacement	
	Arena Capital Transfer	1,000	Arena share of above
		\$176,600	2023 Subtotal
2024	General Capital Transfer	120,000	Replace hardware, computers, laptops, monitors (\$85,000). Replace 1/5 end-of-life servers (\$20,000). Training for current and new employees (\$10,000). Printers (\$10,000). Software upgrades (\$25,000).
	Water Capital Transfer	17,600	Water share of above
	Sewer Capital Transfer	11,800	Sewer share of above
	Golf Capital Transfer	3,000	Golf share of above
	Parking Capital Transfer	3,000	Parking share of above
	Arena Capital Transfer	1,000	Arena share of above
		\$156,400	2024 Subtotal
2025	General Capital Transfer	131,000	Replace hardware, computers, laptops, monitors (\$105,000). Replace 1/5 end-of-life servers (\$20,000). Training for current and new employees (\$10,000). Printers (\$10,000). Software upgrades (\$25,000).
	Sewer Capital Transfer	21,000	Sewer share of above
	Water Capital Transfer	14,000	Water share of above
	Parking Capital Transfer	3,000	Parking share of above
	Golf Capital Transfer	3,000	Golf share of above
	Arena Capital Transfer	1,000	Arena share of above
		\$173,000	2025 Subtotal
	TOTAL	\$1,729,590	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: FIRE #4-Fire Department Vehicle Replacement

I. PROJECT TYPE: Fire Vehicles

II. LOCATION: All Stations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox"/> M Safety	<input type="checkbox"/> H Facility Cond.	<input type="checkbox"/> M Productivity		
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> N/A Mandates	<input type="checkbox"/> H Service Def.	<input type="checkbox"/> N/A Tax Base Exp.	<input type="checkbox"/> H City Master Pl.	
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> H O + M Costs	<input type="checkbox"/> N/A Council Goals	<input type="checkbox"/> M Timeliness		Motor Vehicle Equipment
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis					

DESCRIPTION: Systematic planned replacement of first line fire apparatus, rescue and support vehicles to provide for public safety and minimize operational costs for vehicle maintenance and repairs. As of April 2015, the Department had the following compliment of vehicles:

Engines / Pumpers: 5 total. 3 frontline, 2 reserve. Generally kept for 10 years of front line service and 10 years reserve (for total of 20 years of service)

1 Tanker (2,000 gallons). Keep for 20 years. Serves rural areas of City without City Water.

Ambulances: 5 total. 3 frontline, 2 reserve. Generally kept for 5 years of front line service, with 5 years in reserve (for 10 years total).

Forestry Units: 3 total. Keep for 10 years.

Boats (motorized): 3 total. Keep for 10-15 years.

Ladder Trucks: 2 total. 1 frontline, 1 reserve. 10 years front line, 10 years in reserve (20 total).

Fire Alarm Division: 1 pickup truck, 1 bucket truck. (Keep 10 Years Each)

Staff Vehicles:  
Chief (1)  
Deputy Chief (1)  
Fire Marshall (1)  
Deputy Fire Marshall (1)  
Battalion Chiefs (2)  
EMS Coordinator (1)  
Unassigned / floater (1)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #4-Fire Department Vehicle Replacement

SERVICE IMPACT: Necessary to provide reliable emergency fire and medical services, as well as service for fire alarm, traffic and pedestrian signal equipment.

IMPACT IF NOT FUNDED: Reduced ability to service fire and emergency medical needs, as well as alarm system, traffic and pedestrian signal equipment in a timely fashion.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Close-out	3,571	0	0	0	0	0	0	0	0	0	3,571
General	Fire Equipment Reserve	50,000	0	0	0	0	0	0	0	0	0	50,000
General	G.O. Bonds	515,000	640,000	550,000	555,000	260,000	90,000	410,000	1,500,000	1,130,000	550,000	6,200,000
	Total	568,571	640,000	550,000	555,000	260,000	90,000	410,000	1,500,000	1,130,000	550,000	6,253,571

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	515,000	Replace Engine #5 (2003)
	General Fire Equipment Reserve	35,000	Replace Support Vehicle (2004 Ford Expedition)
	General Fire Equipment Reserve	15,000	Replace Engine #5 (2003)
	General Capital Close-out	3,571	Closeout Share
		\$568,571	2016 Subtotal
2017	General G.O. Bonds	250,000	Replacement Tanker Truck
	General G.O. Bonds	230,000	Replace Ambulance 5
	General G.O. Bonds	50,000	Replace Command Vehicle
	General G.O. Bonds	40,000	Replace Forestry 4 (2003)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	FIRE #4-Fire Department Vehicle Replacement		
	General G.O. Bonds	35,000	Replace Support Vehicle (2003 Ford Pick-up)
	General G.O. Bonds	35,000	Replace Chief's Car (2007)
		\$640,000	2017 Subtotal
2018	General G.O. Bonds	550,000	Replace Engine 7 (2008)
		\$550,000	2018 Subtotal
2019	General G.O. Bonds	475,000	Replace Ambulance 4 and Ambulance 7
	General G.O. Bonds	80,000	Replace 2 Staff Vehicles.
		\$555,000	2019 Subtotal
2020	General G.O. Bonds	150,000	Replace Forestry Units 5 & 7 (2008)
	General G.O. Bonds	80,000	Replace 2 Staff Vehicles
	General G.O. Bonds	30,000	Purchase and equip off road utility type vehicle for fire and EMS coverage on city trail system, wooded areas and for special event coverage.
		\$260,000	2020 Subtotal
2021	General G.O. Bonds	50,000	Replace Command Vehicle
	General G.O. Bonds	40,000	Replace Fire Alarm Pick-Up (2012)
		\$90,000	2021 Subtotal
2022	General G.O. Bonds	200,000	Replace Ambulance 5
	General G.O. Bonds	150,000	Fire Alarm Bucket Truck Replacement (2008)
	General G.O. Bonds	60,000	Replace Fire Prevention Education Trailer (2003)
		\$410,000	2022 Subtotal
2023	General G.O. Bonds	1,500,000	Replace Ladder Truck
		\$1,500,000	2023 Subtotal



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	FIRE	#4-Fire Department Vehicle Replacement	
2024	General G.O. Bonds	550,000	Replace Engine 4
	General G.O. Bonds	500,000	Replace Ambulances 4 & 7
	General G.O. Bonds	40,000	Replace Chief's Car (2017)
	General G.O. Bonds	40,000	Replace Fire Prevention Vehicle (2017)
		\$1,130,000	2024 Subtotal
2025	General G.O. Bonds	500,000	Replace Rescue 1 (2006)
	General G.O. Bonds	50,000	Replace Command Vehicle
		\$550,000	2025 Subtotal
	TOTAL	\$6,253,571	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #17-Sidewalk, Bikeway and Streetscape Improvements

I. PROJECT TYPE: Sidewalks and Streetscapes

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:

<input type="checkbox"/> New	<input type="checkbox"/> L Safety	<input type="checkbox"/> M Facility Cond.	<input type="checkbox"/> M Productivity	
<input type="checkbox"/> Replace	<input type="checkbox"/> H Mandates	<input type="checkbox"/> M Service Def.	<input type="checkbox"/> L Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> L O + M Costs	<input type="checkbox"/> L Council Goals	<input type="checkbox"/> M Timeliness	Sidewalks
<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Comprehensive city-wide program to construct new or repair and rehabilitate existing sidewalks, pathways, bikeways, trails, and streetscape improvements including the installation of granite curbing, paved and unpaved sidewalks, paths, and trails and related infrastructure and appurtenances as required to comply with current ADA standards and regulations. Work also includes the construction or repair and rehabilitation of sidewalk ramps, construction of dedicated lanes or widened shoulders for bike lane opportunities along with streetscape landscaping in order to improve and enhance multi-modal capacity throughout the City.

SERVICE IMPACT: Reduce annual maintenance costs related to deteriorated infrastructure.

IMPACT IF NOT FUNDED: Continued non-compliance with mandated ADA requirements.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 1996

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	200,000	0	225,000	0	250,000	0	275,000	0	300,000	1,250,000
	Total	0	200,000	0	225,000	0	250,000	0	275,000	0	300,000	1,250,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #17-Sidewalk, Bikeway and Streetscape Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	200,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
		\$200,000	2017 Subtotal
2019	General G.O. Bonds	225,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
		\$225,000	2019 Subtotal
2021	General G.O. Bonds	250,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
		\$250,000	2021 Subtotal
2023	General G.O. Bonds	275,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
		\$275,000	2023 Subtotal
2025	General G.O. Bonds	300,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
		\$300,000	2025 Subtotal
TOTAL		\$1,250,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #18-Storrs Street Extension, North & South

I. PROJECT TYPE: Streets New Construction

II. LOCATION: Northerly and southerly of present Storrs St., along and parallel to the west side of the railroad tracks.

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  Timeliness  City Master Pl.  Corridor Improvements

DESCRIPTION: The purpose of this project is to provide municipal infrastructure in accordance with the 2006 "Opportunity Corridor Master Plan" in order to promote and encourage economic redevelopment in the Corridor.

SERVICE IMPACT: Moderate increases in highway operation and maintenance costs.

IMPACT IF NOT FUNDED: Delays economic development/redevelopment in the south end development corridor, prohibits of achieving long-standing goal of connecting Horseshoe Pond Office Park and former South End Rail Yard to Downtown.

IV PREVIOUS FISCAL YEAR AUTHORIZED: Oct. 1998 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	250,000	2,500,000	2,750,000
Other	Tax Increment Financing	0	400,000	4,400,000	0	0	0	0	0	0	0	4,800,000
	Total	0	400,000	4,400,000	0	0	0	0	0	250,000	2,500,000	7,550,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #18-Storrs Street Extension, North & South

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Other Tax Increment Financing	400,000	Storrs Street Extension North (from the current north end of Storrs Street at the Holiday Inn to Constitution Avenue).
		\$400,000	2017 Subtotal
2018	Other Tax Increment Financing	4,400,000	Storrs Street Extension North construction from the current north end of Storrs Street at the Holiday Inn to Constitution Avenue. Assumes at grade crossing of High Speed Rail Corridor. Cost estimate to be refined as project schedule advances within the CIP.
		\$4,400,000	2018 Subtotal
2024	General G.O. Bonds	250,000	Storrs Street Extension South design from Storrs Street at the intersection of Theatre Street southerly beneath the Water Street bridge to Langdon Avenue.
		\$250,000	2024 Subtotal
2025	General G.O. Bonds	2,500,000	Storrs Street Extension South construction southerly from Theatre Street beneath the Water Street bridge to Langdon Avenue.
		\$2,500,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$7,550,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #19-Loudon Road (Rte. 9) Corridor Improvements

I. PROJECT TYPE: Street Corridor Improvements

II. LOCATION: Loudon Road (From Airport Road to Branch Turnpike)

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> H Safety	<input type="checkbox"/> M Facility Cond.	<input type="checkbox"/> M Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> L Mandates	<input type="checkbox"/> H Service Def.	<input type="checkbox"/> N/A Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> L O + M Costs	<input type="checkbox"/> M Council Goals	<input type="checkbox"/> H Timeliness	Corridor Improvements
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The Loudon Road Corridor Study was presented to the City Council in December 2001. The project goal is to implement a plan that will provide safe comfortable travel for vehicles, pedestrians and cyclists, that will be responsive to business and resident needs, and that will add aesthetic and quality of life improvements. The project will be constructed in several phases and include the upgrade of Loudon Road to two through lanes and a center turn lane in designated locations, the construction of a new signalized intersection opposite Northeast Village Drive and placement of streetscape enhancements along the corridor.

Additional improvements include access management controls such as gating Chenell Drive at its intersection with Pembroke Road and discontinuing Pembroke Road at Chenell Drive to encourage thru-traffic on Regional Drive.

Design and planning funds will allow staff to update of the 2001 study and work with the community on refining the design elements.

SERVICE IMPACT: Reduce maintenance costs for rehabilitation portions off-set increased operations and maintenance costs associated with roadway widening.

IMPACT IF NOT FUNDED: Continued traffic congestion, decreased pedestrian safety, increased motor vehicle accidents and failure to promote and implement guiding principles outlined in the Vision 20/20 Study.

IV PREVIOUS FISCAL YEAR AUTHORIZED: Sept 1996 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #19-Loudon Road (Rte. 9) Corridor Improvements

**VI. PROJECT FUND SUMMARY**

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	1,000,000	0	1,000,000	0	0	0	2,000,000
	Total	0	0	0	0	1,000,000	0	1,000,000	0	0	0	2,000,000

**VII. PROJECT FUND DETAIL**

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	1,000,000	Phase 2 - Realign Branch Turnpike/Loudon Road intersection and construct a new Branch Turnpike terminus including traffic signals and discontinuance of Branch Turnpike travel way.
		\$1,000,000	2020 Subtotal
2022	General G.O. Bonds	1,000,000	Phase 3 - Final traffic, pavement and streetscape improvements including the permanent pedestrian signals/islands and streetscape enhancements.
		\$1,000,000	2022 Subtotal
	<b>TOTAL</b>	<b>\$2,000,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #24-Exit 16 / Mountain Road / Shawmut Street Roundabout

I. PROJECT TYPE: Intersections

II. LOCATION: Mountain Road, Shawmut Street, I-93

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="L"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="L"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="M"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="M"/> Council Goals	<input type="checkbox" value="H"/> Timeliness	Intersection Improvement
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Exit 16 was fully reconstructed by the State of NH in 2001. The project included reconfiguration of the interstate ramps and access road with the intersection with Mountain Road. The final configuration of the intersection was designed to accommodate a future traffic signal at Mountain Road.

In March 2003, traffic signal warrant analyses were performed indicating that signal warrants were met. Following public input, two improvement options including traffic signals and a modern roundabout were considered.

In November 2007, City Council approved the roundabout improvement option following public hearing.

SERVICE IMPACT: Improved pedestrian and vehicle safety and increase capacity.

IMPACT IF NOT FUNDED: Increased congestion and reduced safety.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 1999

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

20

Expected Bond Term (in Years) 20

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Impact Fees Traf Dist 2	45,712	0	0	0	0	0	0	0	0	0	45,712
General	G.O. Bonds	850,000	0	0	0	0	0	0	0	0	0	850,000
	Total	895,712	0	0	0	0	0	0	0	0	0	895,712



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #24-Exit 16 / Mountain Road / Shawmut Street Roundabout

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	850,000	Final design and construction of a modern roundabout at the 4-leg intersection of Mountain Road, East Side Drive, Shawmut Street and Exit 16 Ramp Road (West Portsmouth Street).
	General Impact Fees Traf Dist 2	45,712	
		\$895,712	2016 Subtotal
	TOTAL	\$895,712	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #30-Hoit Road / Whitney Road Intersection Signalization

I. PROJECT TYPE: Intersections

II. LOCATION: Hoit Road, Whitney Road Intersection

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:

<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.  
Intersection Improvement

DESCRIPTION: Related to continue growth and development along the Hoit Road and Whitney Road commercial and industrial districts, this project includes the construction of a signalized intersection to provide coordinated turning and through movements at the intersection of Hoit Road (US Route 4) and Whitney Road.

SERVICE IMPACT: Provide appropriate level of service (when required) for Economic Development. Increased operating and maintenance costs associated with new signal.

IMPACT IF NOT FUNDED: Not necessary until warrants are met.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2004

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Impact Fees Traf Dist 1	0	0	0	0	0	0	0	0	0	200,000	200,000
General	Donations	0	0	0	0	0	0	0	0	0	2,050,000	2,050,000
	Total	0	0	0	0	0	0	0	0	0	2,250,000	2,250,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #30-Hoit Road / Whitney Road Intersection Signalization

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	General Donations	2,050,000	Donation share
	General Impact Fees Traf Dist 1	200,000	Design and construction of traffic signal and related improvements at intersection of Hoit and Whitney roads.
		\$2,250,000	2025 Subtotal
	TOTAL	\$2,250,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #31-Broadway / West Street Intersection (McKee Square) Signalization

I. PROJECT TYPE: Intersections

II. LOCATION: Broadway / West Street Intersection (McKee Square)

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> L	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> L	Mandates	<input type="checkbox"/> L	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> M City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> L	O + M Costs	<input type="checkbox"/> L	Council Goals	<input type="checkbox"/> L	Timeliness	Intersection Improvement
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: As a result of traffic improvements recommended by Vanasse, Hangen, Brustlin, Inc. (VHB) in their 1990 Traffic Operations Improvement Plan, this project is intended to minimize congestion and improve safety by adding lane capacity at the intersection, providing orderly turning and through traffic movement capability along with pedestrian access and crosswalk improvements at the McKee Square intersection.

The intersection was recently studied as part of the Conant/Rundlett Safe Routes to School Travel Plan by the Central NH Regional Planning Commission and concluded that pedestrian improvements is a priority at this intersection.

The McKee Square intersection will be examined in a broader context to include not only the immediate McKee Square area but also the West Street/Broadway intersection, the South Street/Downing Street intersection, as well as the South Street/West Street intersection to determine what measures should be taken to improve traffic flow and safety.

SERVICE IMPACT: Slight increase in O&M costs associated with signal. Improved levels of service through intersection.

IMPACT IF NOT FUNDED: Increased traffic congestion and delays.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2000

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

20

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #31-Broadway / West Street Intersection (McKee Square) Signalization

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	1,125,000	1,125,000
General	Impact Fees Traf Dist 3	0	0	0	0	0	0	0	0	150,000	0	150,000
	Total	0	0	0	0	0	0	0	0	150,000	1,125,000	1,275,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2024	General Impact Fees Traf Dist 3	150,000	Traffic assessment and final design of intersection improvements including traffic signalization at West Street and Broadway and modifications to the existing traffic signal at McKee Square. Design includes public outreach with neighborhood.
		\$150,000	2024 Subtotal
2025	General G.O. Bonds	1,125,000	Construction of intersection improvements including traffic signalization at West Street and Broadway and modifications to the existing traffic signal at McKee Square.
		\$1,125,000	2025 Subtotal
	TOTAL	\$1,275,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #34-North Main Street / Storrs Street Intersection Signalization

I. PROJECT TYPE: Intersections

II. LOCATION: North Main at Storrs Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	<input type="checkbox"/> Intersection Improvement
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Construct traffic signals for the purpose of improving circulation as well as safety factors at the presently non-signalized intersection. In 2005, the Planning Board recommended this project be accelerated to accommodate increased traffic projected with the Capital Commons Project.

As part of this project Pitman Street would be realigned to complete the forth leg of the intersection.

Cost includes design and construction. An advanced traffic study component is included to examine new traffic patterns and demands as a result of the opening of Capital Commons Parking Garage and associated development.

It is anticipated that this project will be undertaken in conjunction with CIP 18 Storrs Street North Extension.

SERVICE IMPACT: Increase level of service and reduce delays for south bound, left turn movements from Storrs Street. Increased O & M costs for signal.

IMPACT IF NOT FUNDED: Increased traffic congestion and delays.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2001

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

20

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #34-North Main Street / Storrs Street Intersection Signalization

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	200,000	500,000	0	0	0	0	0	0	0	700,000
General	Impact Fees Traf Dist 3	0	5,000	0	0	0	0	0	0	0	0	5,000
	Total	0	205,000	500,000	0	0	0	0	0	0	0	705,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	200,000	Preliminary design, legal review and negotiation for right-of-way to construct traffic signal for the purpose of improving traffic circulation. In 1990, North Main Street was widened with the reconstruction of the Holiday Inn property to accommodate for future turning lanes at Storrs Street. Signal hardware needs to be installed to accommodate turning movements from Storrs Street on to Main Street.
	General Impact Fees Traf Dist 3	5,000	Impact Fee share
		<u>\$205,000</u>	2017 Subtotal
2018	General G.O. Bonds	500,000	Final design and construction of traffic signals at North Main Street and Storrs Street as well as the realignment of Pitman Street to complete the fourth leg of the intersection.
		<u>\$500,000</u>	2018 Subtotal
	TOTAL	<u>\$705,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #36-Manchester Street / Route 3 South

I. PROJECT TYPE: Street Corridor Improvements

II. LOCATION: Manchester Street from Exit 13 Terminus to Pembroke Town Line

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> L	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> H	Mandates	<input type="checkbox"/> H	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> M	O + M Costs	<input type="checkbox"/> H	Council Goals	<input type="checkbox"/> L	Timeliness	Corridor Improvements
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: The purpose of this project is to widen Manchester Street from 2 to 3 lanes between Garvins Falls Road to Airport Road. In 2012 the Airport Road / Manchester Street intersection was fully reconstructed. The remaining corridor improvement project includes a three lane travel section with new sidewalk on both sides of Manchester Street, vertical curbing and a drainage infiltration system.

The State's participation in the project shall include reconstruction of that portion of Manchester Street from Airport Road (Urban Compact) to the Pembroke town line. Cost share will be as follows: 2/3 State; 1/3 City.

Future traffic modeling projects volumes over 50,000 vehicles per day on this corridor. These improvements will improve traffic flow, minimize congestion and increase safety. In addition, this project is needed to support future development within the Garvins Falls Urban Reserve Area Plan.

In 2005, City Council approved to proceed with the improvements to Manchester Street consisting of a three lane section from Garvins Falls Road to Banks Chevrolet, acquisition of additional right of way (from an existing 66 feet to 82 feet) to accommodate the relocation of private utilities and the new signalized intersection at Airport Road and Integra Drive (to include five lane approach at the intersection).

To support full redevelopment of the Garvins Falls area, Manchester Street and traffic volumes a five lane widening will be necessary. See Project #43 (Garvins Falls) for additional improvements to the corridor at Old Suncook Road and Manchester Street.

SERVICE IMPACT: Improved traffic flow and reduced delays, as well as safety improvements for vehicles and pedestrians. Increased operational and maintenance costs for new signalized intersections and snow plowing operations. Decreased long term operational and maintenance costs for road repairs.

IMPACT IF NOT FUNDED: Increased congestion, lower level of service and more travel delays. Also, without project, long term development of Garvins Falls Urban Reserve Area and over all redevelopment of the Manchester Street Corridor will be limited.



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #36-Manchester Street / Route 3 South

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	0	0	0	0	110,000	0	0	0	0	0	110,000
General	G.O. Bonds	0	0	0	0	3,550,000	0	0	0	0	0	3,550,000
Sewer	G.O. Bonds	0	0	0	0	170,000	0	0	0	0	0	170,000
	Total	0	0	0	0	3,830,000	0	0	0	0	0	3,830,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	Sewer G.O. Bonds	170,000	Replace approximately 1,100 feet of 15 inch sewer main with a new 18 inch main to provide for future capacity of the municipal system. Recommended in the 2004 Garvin's Falls Reserve Area Sewer Feasibility Report. Replacing deteriorated sanitary sewer service mains and installing new service mains.
	Water G.O. Bonds	110,000	Replace deteriorated service mains, install new service mains, hydrants and valves.
	General G.O. Bonds	2,750,000	Manchester Street reconstruction to three lanes from Garvin's Falls Road to Airport Road. Improvements include installation of a new storm water conveyance system.
	General G.O. Bonds	800,000	Construction of the signalized intersection of Manchester Street and Old Suncook Road (\$250,000). Discontinue Garvin's Falls Road (\$50,000). Construction of the signalized intersection of Manchester Street and Jensen's Mobile Home Park together with related road improvements (\$500,000) . Previously approved by City Council in 2005.
		\$3,830,000	2020 Subtotal
	TOTAL	\$3,830,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #40-Langley Parkway

I. PROJECT TYPE: Streets New Construction

II. LOCATION: Clinton-Pleasant Street; Penacook/Auburn Street; North State Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	<input type="checkbox"/> Corridor Improvements
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: In the 1950's, the City began planning the construction of a new collector road from Clinton Street in the vicinity of White Farm to North State Street at Penacook Street (3.0 miles) in an effort to alleviate congestion and cut-through traffic in the downtown and central core neighborhood areas by diverting trips which originate and arrive at destinations outside the City proper to the bypass roadway.

Phase I of this connector roadway was initiated in 1995 and included a new signal at the intersection of Pleasant Street and Langley Parkway and associated turn lanes. Phase II of the project involved the completion of the southerly leg of the bypass (approximately 0.75 miles) from Clinton Street to the new signalized intersection at Pleasant Street and Langley Parkway. Construction was completed in 2008.

Phase III includes the northerly extension of the bypass (approximately 2.25 miles) from Pleasant Street (via Langley Parkway) to Rumford and Penacook Streets. In January 2008 and again in January 2010, City Council listed this project as one of their top ten priorities.

SERVICE IMPACT: Phase II has proven to reduce traffic congestion on South Fruit, Pleasant and Clinton Streets. Provides alternative access to Central Regional Medical Complex.

Phase III reduces traffic congestion and through traffic in residential areas north and south of Pleasant Street.

Increased O&M and snow plowing operational costs.

IMPACT IF NOT FUNDED: Regional Medical facility remains with single access. Additional corridor improvements needed along Pleasant, South Fruit and Clinton Streets at 100% city cost.

IV PREVIOUS FISCAL YEAR AUTHORIZED: May 1996

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

20

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #40-Langley Parkway

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Impact Fees Traf Dist 3	0	0	337,500	0	0	0	0	0	0	0	337,500
General	Donations	1,000,000*	0	337,500	2,860,400	0	0	0	0	0	0	4,197,900
General	G.O. Bonds	0	0	0	2,860,400	6,795,000	0	0	0	0	0	9,655,400
	Total	1,000,000	0	675,000	5,720,800	6,795,000	0	0	0	0	0	14,190,800

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General Donations	1,000,000	Modification intersection of Pleasant Street and Concord Hospital's East Driveway to allow for 2 way traffic at East Driveway.
		\$1,000,000	2016 Subtotal
2018	General Donations	337,500	Private contribution portion of project (1/2).
	General Impact Fees Traf Dist 3	337,500	Final design, permitting and right-of-way easement acquisition for Phase III construction. City portion of project (1/2).
		\$675,000	2018 Subtotal
2019	General Donations	2,860,400	Private contribution portion of project (1/2).
	General G.O. Bonds	2,860,400	Phase III-A Construction - Construction of Langley Parkway from Pleasant Street to Auburn/Penacook Street. City portion of project (1/2).
		\$5,720,800	2019 Subtotal
2020	General G.O. Bonds	6,795,000	Phase III-B Construction - Construction of Langley Parkway from Auburn/Penacook Street to Boutin Street/North State Street.
		\$6,795,000	2020 Subtotal
	TOTAL	\$14,190,800	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #51-White Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: White Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> L	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> N/A	Mandates	<input type="checkbox"/> H	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> M City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> N/A	O + M Costs	<input type="checkbox"/> N/A	Council Goals	<input type="checkbox"/> M	Timeliness	Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: In FY2001, funds were appropriated to construct upgrades to the parking lot and hockey rink. At the request of the Friends of White Park and the Recreation and Parks Advisory Committee (RPAC), the design and construction was postponed pending completion of a park master plan. The park master plan was completed in 2005 resulting in the preparation of a multi-year, phased capital project program.

While a number of components to the park master plan have been completed, this project is intended to implement the remaining elements of the 2005 White Park Master Plan in phases incorporating needed repairs and replacement facilities and/or construction of new facilities to serve existing and future needs of the neighborhood. Improvements include construction of a new multi-purpose building (designed in 2012 by the HL Turner Group), upgrades of the walkways to meet accessibility standards, and dredging the pond's edge for future enjoyment.

SERVICE IMPACT: Improved usability, appearance and community satisfaction as well as potentially decreased liability.

IMPACT IF NOT FUNDED: Deterioration of facilities will accelerate, increasing community dissatisfaction, disuse, and avoidance of this recreational asset. Also, deferred maintenance will result in higher repair costs in the future.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #51-White Park

**VI. PROJECT FUND SUMMARY**

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	90,000	85,000	525,000	125,000	0	0	600,000	0	1,425,000
General	Donations	0	0	90,000	0	400,000	0	0	0	0	0	490,000
General	Capital Transfer	0	0	0	0	0	0	0	0	0	10,000	10,000
	Total	0	0	180,000	85,000	925,000	125,000	0	0	600,000	10,000	1,925,000

**VII. PROJECT FUND DETAIL**

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	90,000	Replace Monkey Around Playground. City share.
	General Donations	90,000	Replace Monkey Around Playground. Community Donation Share
		\$180,000	2018 Subtotal
2019	General G.O. Bonds	60,000	Full depth reconstruction of basketball court.
	General G.O. Bonds	25,000	Replace basketball / hockey lights with energy efficient units.
		\$85,000	2019 Subtotal
2020	General G.O. Bonds	400,000	Multi-Purpose Building & Pond Project.
	General Donations	400,000	Build new Multi-Purpose Building at White Park. Full design services were donated in FY13. New facility included restrooms, small maintenance equipment storage, skate house, and patio.
	General G.O. Bonds	125,000	Phase I of perimeter ornamental fence replacement.
		\$925,000	2020 Subtotal
2021	General G.O. Bonds	125,000	Phase II of perimeter ornamental fence replacement.
		\$125,000	2021 Subtotal
2024	General G.O. Bonds	600,000	Acquisition of abutting private property for park expansion.
		\$600,000	2024 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	REC-GROUNDS	#51-White Park		
2025	General Capital Transfer		10,000	Crack seal & surface coat basketball court.
			\$10,000	2025 Subtotal
	TOTAL		\$1,925,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #52-Keach Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Loudon and Canterbury Roads and Newton Avenue

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> H	Safety	<input type="checkbox"/> M	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> N/A	Mandates	<input type="checkbox"/> M	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> H	O + M Costs	<input type="checkbox"/> N/A	Council Goals	<input type="checkbox"/> M	Timeliness	Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: The purpose of this project is to establish a capital improvement program for Keach Park.

SERVICE IMPACT: Routine repair and replacement of park amenities will maintain customer service, reduce operating cost, and minimize liability associated with deteriorated facilities.

IMPACT IF NOT FUNDED: The park will not meet the growing needs of the community and neighborhood if improvements are not made to keep pace with demands.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	175,000	0	0	0	0	0	0	0	0	175,000
General	Capital Transfer	0	0	0	0	0	0	30,000	0	0	0	30,000
	Total	0	175,000	0	0	0	0	30,000	0	0	0	205,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:            REC-GROUNDS    #52-Keach Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	75,000	Replace Playground Equipment, Timing subject to CIP 443 City Wide Community Center Project.
	General G.O. Bonds	75,000	Resurface and stripe parking lot at Keach Park. Timing subject to CIP 443 City Wide Community Center Project.
	General G.O. Bonds	25,000	Crack seal and resurface 3 basketball and tennis courts at Keach Park.
		\$175,000	2017 Subtotal
2022	General Capital Transfer	30,000	Replace irrigation system pump and appurtenances.
		\$30,000	2022 Subtotal
	TOTAL	\$205,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #54-Russell Martin Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Iron Works Road and Birch Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
	<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.  
 Parks

DESCRIPTION: The purpose of this project is to establish a capital improvement program for Russell Martin Park. Some improvements described herein stem from a design meeting of landscape professionals held in late 1996. In FY1998 access drives and parking were configured for interim use. Phase I prepared hardscape, paved parking areas and installed water sewer and electric utilities. Phase II will develop playing fields (including under drainage) and perimeter landscaping items. Phase III will complete parking lot pavement, driveways, timber rail, and additional drainage improvements. Phase IV will develop and complete concession and pavilion area, playground area, and infrastructure.

SERVICE IMPACT: Significant enhancement and coordination of underutilized recreation area to meet community requirements in the southern part of the City

IMPACT IF NOT FUNDED: Shortfall of fields for youth sports and community requirements will continue to grow.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	400,000	650,000	0	0	1,050,000
	Total	0	0	0	0	0	0	400,000	650,000	0	0	1,050,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:            REC-GROUNDS    #54-Russell Martin Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	400,000	Phase II Design and Construction - playing fields (including under drainage), perimeter landscaping items, as well as enhancements to pedestrian and bicycle access way from Rolinda Avenue via City easement.
		\$400,000	2022 Subtotal
2023	General G.O. Bonds	425,000	Phase III Construction - complete design, develop plans and specifications and construct parking lot pavement, driveways, timber rail, and additional drainage improvements.
	General G.O. Bonds	225,000	Phase IV Construction - develop and complete concession and pavilion area, playground area, final landscaping and infrastructure.
		\$650,000	2023 Subtotal
	<b>TOTAL</b>	<b>\$1,050,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #55-Rolfe Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Center Street, Penacook

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	<input type="text" value="L"/> Safety	<input type="text" value="M"/> Facility Cond.	<input type="text" value="N/A"/> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="M"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="H"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="text" value="N/A"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="M"/> Timeliness	Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to establish a capital improvement program for Rolfe Park.

In 2001, the parking area was reshaped and paved. New fencing was installed at the tennis courts. New perimeter fencing was installed along southwest corner of park. Expansion of tennis court was co-funded by Merrimack Valley School District. An irrigation system is proposed for the athletic fields, a picnic shelter is to be provided, as is a shade structure adjacent to the pool, and lighting for the baseball field will be evaluated and if warranted, installed in order to expand usage.

SERVICE IMPACT: Improved usability and community satisfaction as well as potentially decreased liability.

IMPACT IF NOT FUNDED: Deterioration of facilities will accelerate, increasing community dissatisfaction, disuse, and avoidance of this recreational asset. Also, deferred maintenance will result in higher repair costs in the future.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	100,000	75,000	0	0	0	0	175,000
	Total	0	0	0	0	100,000	75,000	0	0	0	0	175,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:            REC-GROUNDS    #55-Rolfe Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	100,000	Reconstruction of Basketball and Tennis Courts.
		\$100,000	2020 Subtotal
2021	General G.O. Bonds	75,000	Replace playground equipment
		\$75,000	2021 Subtotal
	TOTAL	\$175,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #56-Rollins Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Bow Street and Broadway

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="L"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="H"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="M"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to establish a capital improvement program for Rollins Park in order to implement recommendations of the 2005 Park Master Plan. Projects are intended to repair and refurbish existing infrastructure, as well as construct new amenities to serve existing and future residents. Improvements include upgrades to the parking lot, landscaping, the baseball and softball fields, the playground area, as well as upgrades of the walkways to meet accessibility standards.

SERVICE IMPACT: Improved usability, appearance, and community satisfaction, as well as potentially decreased liability for the premier recreational facility of the South End.

IMPACT IF NOT FUNDED: Deterioration of facilities will accelerate, increasing community dissatisfaction, disuse, and avoidance of this recreational asset. Also, deferred maintenance will result in higher repair costs in the future.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	0	0	0	0	25,000	0	0	0	0	25,000
General	G.O. Bonds	0	20,000	0	100,000	75,000	775,000	0	0	0	0	970,000
	Total	0	20,000	0	100,000	75,000	800,000	0	0	0	0	995,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:            REC-GROUNDS    #56-Rollins Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	20,000	Repoint stone walls along Broadway.
		\$20,000	2017 Subtotal
2019	General G.O. Bonds	100,000	Reconstruct existing Basketball and Tennis Courts per master plan.
		\$100,000	2019 Subtotal
2020	General G.O. Bonds	75,000	Design of the Phase I park improvements including the reconstruction of the baseball and softball fields, irrigation, walkways and a picnic area.
		\$75,000	2020 Subtotal
2021	General G.O. Bonds	400,000	Construction of Phase I park improvements including the reconstruction of the baseball and softball fields, irrigation, walkways and a picnic area.
	General G.O. Bonds	300,000	Design and construction of Phase II improvements including access and parking areas.
	General G.O. Bonds	75,000	Replace playground equipment.
	General Capital Transfer	25,000	Replace baseball field backstop.
		\$800,000	2021 Subtotal
	TOTAL	\$995,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #57-Gustaf H. Lehtinen Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Horse Hill Road

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.  
 Parks

DESCRIPTION: Maintenance of multi-purpose bridge installed over the Contoocook River in 2008/2009.

SERVICE IMPACT: Maintenance of the bridge will ensure that it remains a safe and useful asset for residents.

IMPACT IF NOT FUNDED: Condition of bridge could deteriorate thereby causing liability for the City.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2009 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	0	0	50,000	0	0	0	0	0	0	50,000
	Total	0	0	0	50,000	0	0	0	0	0	0	50,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General Capital Transfer	50,000	Structural inspection and maintenance of recreation bridge structure and trail approaches.
		<u>\$50,000</u>	2019 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#57-Gustaf H. Lehtinen Park
TOTAL		\$50,000



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #59-Terrill Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Old Turnpike Road at Manchester Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> L	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> N/A	Mandates	<input type="checkbox"/> N/A	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> N/A	O + M Costs	<input type="checkbox"/> N/A	Council Goals	<input type="checkbox"/> M	Timeliness	Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: In 2005, Groundwork Concord prepared a park master plan outlining opportunities to expand park uses. This project is intended to implement those recommendations including the design and construction of trails, parking areas, picnicking area, as well as a new athletic field. Street lighting will be added adjacent to the park on Old Turnpike Road in order to improve public safety.

In 2009, staff coordinated a review of the previous master plan and presented options to the Recreation and Parks Advisory Committee (RPAC). The park plan recognized the need for expanded athletic field capacity at this location and now includes the design and construction of a premiere synthetic turf multi-purpose athletic field, grandstands, supportive team rooms, concessions, and storage buildings, sports lighting along with parking facilities and related utilities.

SERVICE IMPACT: Provide additional appropriate recreation facilities at previously under-utilized park.

IMPACT IF NOT FUNDED: Continued community dissatisfaction, disuse, and avoidance of this recreational asset, and increased future costs associated with delayed improvements.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2010

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Donations	0	0	0	0	0	0	0	0	900,000	0	900,000
General	G.O. Bonds	0	0	0	0	0	0	120,000	0	1,500,000	0	1,620,000
	Total	0	0	0	0	0	0	120,000	0	2,400,000	0	2,520,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:            REC-GROUNDS    #59-Terrill Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	120,000	Design multi-purpose athletic facility as identified in the 2009 park master plan including a multi-purpose synthetic turf field, grandstands, concessions, team rooms, storage buildings, related parking and utility infrastructure and connecting sidewalks, paths and trails.
		\$120,000	2022 Subtotal
2024	General Donations	900,000	Donations share of project costs.
	General G.O. Bonds	900,000	Phase 1 - Construct multi-purpose playing field, grandstands, parking areas and related utilities.
	General G.O. Bonds	600,000	Phase 2 - Design and construct concession concourse, team rooms, storage buildings and related park improvements.
		\$2,400,000	2024 Subtotal
	<b>TOTAL</b>	<b>\$2,520,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #60-Kiwanis (Waterfront) Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Loudon Road (Adjacent to Everett Arena)

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> L Safety	<input type="checkbox"/> N/A Facility Cond.	<input type="checkbox"/> N/A Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> N/A Mandates	<input type="checkbox"/> L Service Def.	<input type="checkbox"/> N/A Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> M O + M Costs	<input type="checkbox"/> N/A Council Goals	<input type="checkbox"/> M Timeliness	<input type="checkbox"/> Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: In 2009, staff coordinated a review of a previous master plan and presented options to the Arena Advisory Committee (AAC) as well as the Recreation and Parks Advisory Committee (RPAC). The park plan recognized the need for expanded athletic field capacity at this location and now includes the design and construction of a multi-purpose athletic field, storage buildings, sports lighting along with parking facilities and related utilities.

In 2008, City Council approved the construction of a boat house by Concord Crew Club on the Waterfront Park property and construction was completed in 2009.

This project is intended to implement the 2009 Master Plan for Kiwanis Park. Specifically, projects described herein shall be intended to repair existing infrastructure as well as provide additional amenities to serve current and future needs. All projects herein are subject to relocation of the Fire Training Facility.

SERVICE IMPACT: Long range plan for expansion and full utilization of this City owned property.

IMPACT IF NOT FUNDED: A significant recreational asset will be underdeveloped in Concord.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #60-Kiwanis (Waterfront) Park

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	500,000	0	0	500,000
General	Impact Fees Rec Dist 4	0	0	0	0	0	0	100,000	0	0	0	100,000
	Total	0	0	0	0	0	0	100,000	500,000	0	0	600,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General Impact Fees Rec Dist 4	100,000	Final design and permitting of park improvements based on the 2009 park master plan. Project includes conversion of Fire Training Grounds into park space for field based recreation.
		\$100,000	2022 Subtotal
2023	General G.O. Bonds	500,000	Construction of park improvements based on 2009 park master plan.
		\$500,000	2023 Subtotal
	TOTAL	\$600,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #63-City Wide Recreation Facility Improvements

I. PROJECT TYPE: Public Buildings

II. LOCATION: Various City Locations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="M"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="H"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Public Facilities
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to provide for renovation and repair of Recreation Facilities throughout the city, including 7 neighborhood pools and 4 community centers.

Any proposed repairs to the West Street Ward House and existing Heights Community Center are subject to change due to the potential "Multigenerational Community Center Project" (CIP 443), which calls for the closure and consolidation of those facilities to a new center located at Keach Park. See CIP 443 for more detail.

SERVICE IMPACT: Increased usability and reduced maintenance.

IMPACT IF NOT FUNDED: Deterioration of buildings will accelerate.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years) 20

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Close-out	26,229	0	0	0	0	0	0	0	0	0	26,229
General	G.O. Bonds	365,000	395,000	400,000	88,000	95,000	405,000	107,000	300,000	350,000	375,000	2,880,000
	Total	391,229	395,000	400,000	88,000	95,000	405,000	107,000	300,000	350,000	375,000	2,906,229

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:               GS-PUBLIC PROPERTIES   #63-City Wide Recreation Facility Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	365,000	Rolfe pool replacement
	General Capital Close-out	26,229	Close-out Share.
		\$391,229	2016 Subtotal
2017	General G.O. Bonds	395,000	Kimball pool replacement
		\$395,000	2017 Subtotal
2018	General G.O. Bonds	400,000	Keach pool replacement
		\$400,000	2018 Subtotal
2019	General G.O. Bonds	50,000	Replace slate roof at West Street Ward House.
	General G.O. Bonds	25,000	Repair granite stairs and concrete foundation at West Street Ward House.
	General G.O. Bonds	13,000	Replace heating system at West Street Ward House.
		\$88,000	2019 Subtotal
2020	General G.O. Bonds	45,000	Replace wood floor in dance studio at Green Street Community Center.
	General G.O. Bonds	25,000	Replace restroom partitions at all City pools.
	General G.O. Bonds	25,000	Chlorinators and pumps at 3 (three) pools
		\$95,000	2020 Subtotal
2021	General G.O. Bonds	405,000	Merrill pool replacement
		\$405,000	2021 Subtotal
2022	General G.O. Bonds	75,000	Replace Green Street Community Center roof (last done in 1997).
	General G.O. Bonds	32,000	Chlorinators and pumps at 4 (four) pools
		\$107,000	2022 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-PUBLIC PROPERTIES		#63-City Wide Recreation Facility Improvements	
2023	General G.O. Bonds	300,000	White Park pool replacement	
		\$300,000	2023 Subtotal	
2024	General G.O. Bonds	350,000	Garrison pool replacement	
		\$350,000	2024 Subtotal	
2025	General G.O. Bonds	350,000	Rollins pool replacement	
	General G.O. Bonds	25,000	Chlorinators and pumps at 4 (four) pools	
		\$375,000	2025 Subtotal	
	TOTAL	\$2,906,229		

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #64-Arena Improvements

I. PROJECT TYPE: Arena

II. LOCATION: Everett Arena

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	<input type="text" value="L"/> Safety	<input type="text" value="M"/> Facility Cond.	<input type="text" value="L"/> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="L"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="text" value="L"/> O + M Costs	<input type="text" value="M"/> Council Goals	<input type="text" value="M"/> Timeliness	Public Facilities
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Provides for the continued rehabilitation and needed capital investments in the arena to ensure a viable facility into the future. Improvements include, but are not limited to, repair / reconstruction of parking lots, electrical up-grades, chiller unit replacement, as well as periodic replacement of roofing and exterior siding.

SERVICE IMPACT: Regular capital improvements will help maintain the facility, improve safety, decrease escalations in operating and maintenance expenses, and help keep the facility competitive in the market place.

IMPACT IF NOT FUNDED: The Arena is competing in a very competitive market that has seen dramatic growth in recent years. If the City does not make investments in the property, the arena's market share could be negatively affected, thereby reducing revenues and threatening its ability to remain financially self sufficient.

IV PREVIOUS FISCAL YEAR AUTHORIZED: June 1997 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Arena	Capital Transfer	0	0	0	0	20,000	0	10,000	0	0	0	30,000
Arena	G.O. Bonds	0	100,000	0	0	100,000	100,000	0	650,000	150,000	0	1,100,000
	Total	0	100,000	0	0	120,000	100,000	10,000	650,000	150,000	0	1,130,000



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-PUBLIC PROPERTIES   #64-Arena Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Arena G.O. Bonds	100,000	Replace Zamboni
		\$100,000	2017 Subtotal
2020	Arena G.O. Bonds	100,000	Replace chiller system compressors, 1960 vintage. Project identified in Dubois & King facilities report.
	Arena Capital Transfer	20,000	Architectural services for a conceptual new lobby plan.
		\$120,000	2020 Subtotal
2021	Arena G.O. Bonds	100,000	Replace Munters Dehumidification Unit
		\$100,000	2021 Subtotal
2022	Arena Capital Transfer	10,000	Replace Zamboni batteries
		\$10,000	2022 Subtotal
2023	Arena G.O. Bonds	650,000	Design and construction of a new lobby.
		\$650,000	2023 Subtotal
2024	Arena G.O. Bonds	150,000	Pave parking lot and re-stripe markings
		\$150,000	2024 Subtotal
	<b>TOTAL</b>	<b>\$1,130,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #65-City Hall Renovations

I. PROJECT TYPE: Public Buildings

II. LOCATION: City Hall - Green Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	<input type="checkbox"/> Public Facilities
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to make routine investments to preserve, restore, and maintain City Hall, Police, Annex and Audi. Structural components, exterior integrity, service systems and the appearance of City Hall have deteriorated due to age and myriad of interim fixes. Deterioration is an ongoing issue, which must be continuously addressed in order to prevent more expensive repairs in the future, eliminate potential hazards and liabilities, as well as to maintain employee morale.

SERVICE IMPACT: Routine capital investment in City Hall and associated buildings will improve energy efficiency, reduce long-term operating costs, as well as strengthen employee morale and civic pride.

IMPACT IF NOT FUNDED: Deterioration, energy inefficiency and high maintenance costs.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15 Expected Bond Term (in Years) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	697,000	185,000	115,000	35,000	175,000	20,000	30,000	100,000	60,000	0	1,417,000
	Total	697,000	185,000	115,000	35,000	175,000	20,000	30,000	100,000	60,000	0	1,417,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-PUBLIC PROPERTIES   #65-City Hall Renovations

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	600,000	Conversion of City Hall Complex from Steam to Natural Gas. Includes City Hall, City Hall Annex, Police Station, Green Street Community Center, Auditorium, and Library.
	General G.O. Bonds	50,000	Upgrades to interior finishes at City Hall and Annex.
	General G.O. Bonds	22,000	Annex rear entry repair; including replacement of stairs and landing.
	General G.O. Bonds	20,000	Install re-heat coils into the fresh air make up systems at City Hall.
	General G.O. Bonds	5,000	Police mechanical roof SE corner vibration isolators.
		\$697,000	2016 Subtotal
2017	General G.O. Bonds	25,000	Paint interior, carpet and flooring in City Hall Annex.
	General G.O. Bonds	160,000	Design and refurbishment of sidewalks within and around Municipal Complex including Green and Prince St.
		\$185,000	2017 Subtotal
2018	General G.O. Bonds	100,000	Carpet replacement throughout areas displaying major wear.
	General G.O. Bonds	15,000	Annex pre-cast panels repair.
		\$115,000	2018 Subtotal
2019	General G.O. Bonds	35,000	Paint interior and replace carpet in Council Chambers.
		\$35,000	2019 Subtotal
2020	General G.O. Bonds	175,000	Replace the elevator at City Hall.
		\$175,000	2020 Subtotal
2021	General G.O. Bonds	20,000	Paint and ceiling tiles in select areas of significant wear.
		\$20,000	2021 Subtotal
2022	General G.O. Bonds	30,000	Placeholder for general serviceability of functional areas within the City Hall complex.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-PUBLIC PROPERTIES	#65-City Hall Renovations	
		\$30,000	2022 Subtotal
2023	General G.O. Bonds	100,000	Service and upgrade HVAC system and refresh EMS system installed in 2006.
		\$100,000	2023 Subtotal
2024	General G.O. Bonds	50,000	Security system installation. Door hardware and card reader system compatible with police building
	General G.O. Bonds	10,000	Replace re-heat coils at City Hall at outside air intake.
		\$60,000	2024 Subtotal
	TOTAL	\$1,417,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: LIBRARY #68-Library

I. PROJECT TYPE: Public Buildings

II. LOCATION: 45 Green Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="L"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="text" value="M"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="checkbox"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="H"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="N/A"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="text" value="M"/> Timeliness	Public Facilities
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: In 1995, Tappe and Associates completed a comprehensive architectural survey of the library building at 45 Green Street. Identified in the architectural survey were needed improvements to the roof of the library, windows, exterior surfaces and mechanical systems designed to protect the integrity of the structure. In addition, handicap accessibility related issues were identified and corrections proposed.

In October 2007 an updated library needs assessment was completed by J. Stewart Roberts Associates, Inc. This report, which was accepted by the City Council in December 2007, recommended that the City pursue construction of a new 40,000 SF public library in downtown Concord with associated parking areas. In September 2008 the City Council directed the formation of the 21st Century Library Task Force to conduct a fundraising feasibility study, develop estimates of operating costs for a new facility, as well as formal site selection study. The Task Force presented its findings to the City Council in January 2011. The Task Force's report reaffirmed the findings of the 2007 needs assessment and recommended that the City pursue acquisition of property in downtown for construction of a new facility.

SERVICE IMPACT: A new building would facilitate improved library services for the community. The project would allow for a greater portion of the Library's collection to be displayed (much is currently in storage). The project would also feature more seating, meeting and programming space, an expanded supply of computers for public use, as well as provide for a more efficient use of building space and better access to parking for patrons. By relocating the Library to a new site within the Downtown, the facility will serve as an important institutional anchor and activity generator thereby providing a positive economic impact for the community.

IMPACT IF NOT FUNDED: Inability of library to expand its service or collection to meet the growing needs of the community.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: LIBRARY #68-Library

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	2,250,000	0	0	0	2,250,000
	Total	0	0	0	0	0	0	2,250,000	0	0	0	2,250,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	2,250,000	Funding for property acquisition for future construction of a new Concord Public Library.
		\$2,250,000	2022 Subtotal
	<b>TOTAL</b>	<b>\$2,250,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #71-Runway Protection Zones: Property Acquisition

I. PROJECT TYPE: Airport

II. LOCATION: Concord Municipal Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> H Safety	<input type="checkbox"/> L Facility Cond.	<input type="checkbox"/> L Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> H Mandates	<input type="checkbox"/> L Service Def.	<input type="checkbox"/> N/A Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> L O + M Costs	<input type="checkbox"/> L Council Goals	<input type="checkbox"/> N/A Timeliness	Airport
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The 2006 Airport Master Plan outlined a capital improvement program to acquire property available in the runway protection zone of runway 17/35 on Grant and Greeley Streets. Property acquisition began in 2005. The City has acquired seven of the eight targeted properties using 2008 FAA Grant. Owner of the eighth property did not wish to sell. City will revisit this possible acquisition with the property owner in the future.

SERVICE IMPACT: Provides for compliance with Federal Aviation Administration mandated control of safety areas.

IMPACT IF NOT FUNDED: Possible loss of future Federal funding for Airport capital projects due to noncompliance with Federal Aviation Administration safety mandates.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	Federal	0	0	0	0	0	0	0	0	0	427,500	427,500
Other	State	0	0	0	0	0	0	0	0	0	23,750	23,750
Airport	Capital Transfer	0	0	0	0	0	0	0	0	0	23,750	23,750
	Total	0	0	0	0	0	0	0	0	0	475,000	475,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #71-Runway Protection Zones: Property Acquisition

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	Other Federal	427,500	Acquire available property in Runway 17 protection zone. Federal Share.
	Airport Capital Transfer	23,750	City share of acquisition project.
	Other State	23,750	State share of acquisition project.
		\$475,000	2025 Subtotal
	TOTAL	\$475,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #72-Runway Pavement Improvements

I. PROJECT TYPE: Airport

II. LOCATION: Concord Municipal Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED  New  Safety  Facility Cond.  Productivity  
 SERVED:  Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness  Airport  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: Reclaim runways 17/35 and 3/21 as recommended in the 2006 Airport Master Plan.

SERVICE IMPACT: Routine preventative maintenance shall extend the useful life of the asset, as well as reduce long-term maintenance and repair costs.

IMPACT IF NOT FUNDED: Decreased life of pavement resulting in functional obsolete facility and potential loss of market share to other local general aviation airports.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Airport	G.O. Bonds	0	0	0	0	147,778	147,778	50,000	0	0	0	345,556
Other	Federal	0	0	0	400,000	2,660,000	2,660,000	900,000	0	0	0	6,620,000
Airport	Capital Transfer	0	0	0	22,223	0	0	0	0	0	0	22,223
Other	State	0	0	0	22,223	147,778	147,778	50,000	0	0	0	367,779
	Total	0	0	0	444,446	2,955,556	2,955,556	1,000,000	0	0	0	7,355,558

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #72-Runway Pavement Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Other Federal	400,000	Design the reclaim runway 17/35 and upgrade signage and lighting on the airfield to comply with current FAA regulations. Complete drainage repairs in the vicinity of the ramp area as recommended in the Airport Master Plan, SWPPP. The runway will be shifted 300 feet to the south to comply with Runway Safety Determination Study.
	Other State	22,223	Design the reclaim runway 17/35. State share.
	Airport Capital Transfer	22,223	Design the reclaim runway 17/35. City share.
		\$444,446	2019 Subtotal
2020	Other Federal	2,660,000	Reclaim runway 17/35 and upgrade signage and lighting on the airfield to comply with current FAA regulations. Complete drainage repairs in the vicinity of the ramp area as recommended in the Airport Master Plan, SWPPP. North side.
	Airport G.O. Bonds	147,778	Reclaim runway 17/35. City share.
	Other State	147,778	Reclaim runway 17/35. State share
		\$2,955,556	2020 Subtotal
2021	Other Federal	2,660,000	Reclaim runway 17/35 and upgrade signage and lighting on the airfield to comply with current FAA regulations. Complete drainage repairs in the vicinity of the ramp area as recommended in the Airport Master Plan, SWPPP. South side. Shift runway 300 feet to the south to comply with Runway Determination Safety Study.
	Other State	147,778	Reclaim runway 17/35. State share
	Airport G.O. Bonds	147,778	Reclaim runway 17/35. City Share.
		\$2,955,556	2021 Subtotal
2022	Other Federal	900,000	Design and Reclaim taxiway on abandoned runway 3/21, north section. Federal share.
	Airport G.O. Bonds	50,000	Reclaim taxiway on abandoned runway 3/21, north section. City share.
	Other State	50,000	Reclaim taxiway on abandoned runway 3/21, north section. State share.
		\$1,000,000	2022 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#72-Runway Pavement Improvements
TOTAL		\$7,355,558

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #75-General Airport Repairs

I. PROJECT TYPE: Airport

II. LOCATION: Concord Municipal Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="N/A"/> Safety	<input type="text" value="M"/> Facility Cond.	<input type="text" value="N/A"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="N/A"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="H"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="L"/> O + M Costs	<input type="text" value="M"/> Council Goals	<input type="text" value="M"/> Timeliness	Airport
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Project entails general maintenance of city-owned infrastructure at the airport which are not reimbursable by the Federal Aviation Administration or State of New Hampshire. Typical projects include hanger repairs, refurbishment of parking areas, etc.

SERVICE IMPACT: Routine maintenance of infrastructure is required in order avoid potential liability with deteriorated facilities as well as to create an environment to spur growth and economic development at the airport.

IMPACT IF NOT FUNDED: Potential health / safety / welfare liabilities to the City due to deteriorated buildings and facilities.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Airport	G.O. Bonds	25,000	0	0	0	0	0	60,000	0	30,000	0	115,000
Airport	Capital Close-out	12,287	0	0	0	0	0	0	0	0	0	12,287
Airport	Capital Transfer	10,000	0	15,000	10,000	0	15,000	0	25,000	0	10,000	85,000
	Total	47,287	0	15,000	10,000	0	15,000	60,000	25,000	30,000	10,000	212,287

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-PUBLIC PROPERTIES   #75-General Airport Repairs

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Airport G.O. Bonds	25,000	Hangar 3 roof replacement.
	Airport Capital Close-out	12,287	Hangar 3 roof replacement.
	Airport Capital Transfer	10,000	Tree removal. Master Plan recommendation
		\$47,287	2016 Subtotal
2018	Airport Capital Transfer	15,000	Hangar maintenance and repairs.
		\$15,000	2018 Subtotal
2019	Airport Capital Transfer	10,000	Tree removal. Ongoing maintenance item to meet FAA requirements.
		\$10,000	2019 Subtotal
2021	Airport Capital Transfer	15,000	Hangar maintenance and repairs.
		\$15,000	2021 Subtotal
2022	Airport G.O. Bonds	60,000	Hangar roof replacement.
		\$60,000	2022 Subtotal
2023	Airport Capital Transfer	15,000	Hangar maintenance and repairs.
	Airport Capital Transfer	10,000	Tree removal. Ongoing maintenance item to meet FAA requirements.
		\$25,000	2023 Subtotal
2024	Airport G.O. Bonds	30,000	Refurbish/replace outdated heating equipment in the terminal building.
		\$30,000	2024 Subtotal
2025	Airport Capital Transfer	10,000	Tree removal. Ongoing maintenance item to meet FAA requirements.
		\$10,000	2025 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-PUBLIC PROPERTIES	#75-General Airport Repairs
TOTAL		\$212,287

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #77-Airport Snow Removal Equipment (SRE) & Equipment Storage Facility

I. PROJECT TYPE: Airport

II. LOCATION: Concord Municipal Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox"/> M Safety	<input type="checkbox"/> N/A Facility Cond.	<input type="checkbox"/> M Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> M Mandates	<input type="checkbox"/> M Service Def.	<input type="checkbox"/> N/A Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> L O + M Costs	<input type="checkbox"/> N/A Council Goals	<input type="checkbox"/> M Timeliness	Airport
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Purchase new winter operations equipment for the Airport to replace deteriorated aging equipment with high maintenance and failure rates that jeopardize ability to keep the airport open during inclement weather.

SERVICE IMPACT: Replacement and upgrade of equipment to insure snow removal at airport to comply with grant assurances. Also to improve productivity of staff.

IMPACT IF NOT FUNDED: Potential loss of FAA grant money participation. Inability to remove snow from airport to meet grant assurances.

IV PREVIOUS FISCAL YEAR AUTHORIZED: July 1999 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	State	0	25,639	0	0	0	18,750	0	0	0	0	44,389
Airport	Capital Transfer	0	25,639	0	0	0	18,750	0	0	0	0	44,389
Other	Federal	0	461,500	0	0	0	337,500	0	0	0	0	799,000
	Total	0	512,778	0	0	0	375,000	0	0	0	0	887,778

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #77-Airport Snow Removal Equipment (SRE) & Equipment Storage Facility

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Other Federal	250,000	Add a drive through garage bay to the snow removal equipment storage building.
	Other Federal	211,500	Purchase new 10 wheeler dump truck with plow and 2 wings. Federal Share.
	Airport Capital Transfer	13,889	City portion.
	Other State	13,889	State portion.
	Airport Capital Transfer	11,750	City portion.
	Other State	11,750	State portion.
		\$512,778	2017 Subtotal
2021	Other Federal	337,500	Purchase new snow blower (\$250,000), tow-behind sweeper (\$60,000), sander with liquid system (\$15,000) and ice spreader for dump truck with plow (\$15,000) snow removal equipment. Federal Share.
	Other State	18,750	State share
	Airport Capital Transfer	18,750	City Share.
		\$375,000	2021 Subtotal
	<b>TOTAL</b>	\$887,778	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-HIGHWAY / UTILITIES #78-Annual Highway Improvement Program

I. PROJECT TYPE: Street Rehabilitation

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> M	Facility Cond.	<input type="checkbox"/> L	Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> N/A	Mandates	<input type="checkbox"/> H	Service Def.	<input type="checkbox"/> L	Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> N/A	O + M Costs	<input type="checkbox"/> M	Council Goals	<input type="checkbox"/> M	Timeliness	Road Resurfacing
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: To complete various surface repairs on existing infrastructure or construct minor alterations to improve traffic flow. Cold plane/overlay replaces the surface and adjusts roadway's profile. Rubblization involves cold plane/overlay with in-place crushing and recycling of underlying asphalt roadway. Crack sealing and drainage repairs to extend the life and protect the investment.

SERVICE IMPACT: Improved ride-ability and reduced maintenance. Extend life of road infrastructure.

IMPACT IF NOT FUNDED: Deterioration will accelerate to total failure requiring a more expensive remedy.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

15

Expected Bond Term (in Years) 20

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Highway Reserve	1,319,000	1,475,500	1,675,000	1,850,000	2,050,000	2,215,000	2,375,000	2,550,000	2,710,000	2,710,000	20,929,500
General	G.O. Bonds	4,000,000	0	0	0	0	0	0	0	0	0	4,000,000
	Total	5,319,000	1,475,500	1,675,000	1,850,000	2,050,000	2,215,000	2,375,000	2,550,000	2,710,000	2,710,000	24,929,500

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:               GS-HIGHWAY / UTILITIES   #78-Annual Highway Improvement Program

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	4,000,000	The \$4,000,000 bond is to be spent over two fiscal years. These funds being appropriated in FY16 and FY17 purposefully do not match the planned expenditures for those years. The bond is dedicated towards the roadwork identified in both the FY 16 and FY 17 programs.
	General Highway Reserve	1,009,000	MAINTENANCE OVERLAYS: J. Bartlett Rd; Full Length Old Loudon Rd; Full Length. Shall include realignment of skewed Old Loudon and Portsmouth St intersection (formerly CIP 520/2016). South St; Avon to Bow T/L West Portsmouth St; Locke Road to End. Portsmouth St; E Side Dr. to Old Loudon Rd COLDPLANE: Manchester St; From Merrimack River Bridge to Garvins Falls RECLAIM: Blevens Dr.; Full Length Chestnut Crt.; Full Length District #5 Rd; Full Length Edward Dr.; Full Length Fogg St; Full Length Irving Dr.; Full Length King St; Full Length Quail Ridge; Full Length Rockland Rd; Full Length Silk Farm Rd; Clinton St to Bow T/L Spaulding St; Full Length St. Johns St; Full Length Sulloway; Full Length Sundance; Full Length Vernon St; Full Length
	General Highway Reserve	200,000	Crack Sealing various streets.
	General Highway Reserve	85,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-HIGHWAY / UTILITIES	#78-Annual Highway Improvement Program	
		\$5,319,000	2016 Subtotal
2017	General Highway Reserve	1,165,500	MAINTENANCE OVERLAYS: Cemetery St; Full Length Ferrin Rd; Full Length S Main St; Wilfred to Joffre W Parish Rd; Full Length Garvins Falls Rd; Full Length Wilson Ave; South St to Norwich RECLAIM: Country Club Lane; Full Length Eastman St; Full Length Fairview Dr.; Full Length Foxcross Circle; Full Length Jennifer Dr.; Full Length Judith Dr.; Full Length Oakmont Dr.; Full Length S. Curtisville Rd; Portsmouth St. to Frost (minus school)
	General Highway Reserve	200,000	Crack Sealing various streets.
	General Highway Reserve	85,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$1,475,500	2017 Subtotal
2018	General Highway Reserve	1,365,000	Reclaim and Cold Plane/Overlay and Maintenance Overlay selected streets.
	General Highway Reserve	200,000	Crack Sealing various streets.
	General Highway Reserve	85,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$1,675,000	2018 Subtotal
2019	General Highway Reserve	1,525,000	Reclaim and Cold Plane/Overlay and Maintenance Overlay selected streets.
	General Highway Reserve	200,000	Crack Sealing various streets.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-HIGHWAY / UTILITIES	#78-Annual Highway Improvement Program	
	General Highway Reserve	100,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$1,850,000	2019 Subtotal
2020	General Highway Reserve	1,725,000	Reclaim and Cold Plane/Overlay and Maintenance Overlay selected streets.
	General Highway Reserve	200,000	Crack Sealing various streets.
	General Highway Reserve	100,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$2,050,000	2020 Subtotal
2021	General Highway Reserve	1,890,000	Reclaim and Cold Plane/Overlay and Maintenance Overlay selected streets.
	General Highway Reserve	200,000	Crack Sealing various streets.
	General Highway Reserve	100,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$2,215,000	2021 Subtotal
2022	General Highway Reserve	2,050,000	Reclaim and Cold Plane/Overlay and Maintenance Overlay selected streets.
	General Highway Reserve	200,000	Crack Sealing various streets.
	General Highway Reserve	100,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$2,375,000	2022 Subtotal
2023	General Highway Reserve	2,225,000	Reclaim and Cold Plane/Overlay and Maintenance Overlay selected streets.
	General Highway Reserve	200,000	Crack Sealing various streets.
	General Highway Reserve	100,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$2,550,000	2023 Subtotal

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**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-HIGHWAY / UTILITIES	#78-Annual Highway Improvement Program	
2024	General Highway Reserve	2,385,000	Reclaim and Cold Plane/Overlay and Maintenance Overlay selected streets.
	General Highway Reserve	200,000	Crack Sealing Various Streets.
	General Highway Reserve	100,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$2,710,000	2024 Subtotal
2025	General Highway Reserve	2,385,000	Reclaim and Cold Plane/Overlay and Maintenance Overlay selected streets.
	General Highway Reserve	200,000	Crack Sealing Various Streets.
	General Highway Reserve	100,000	Drainage Repairs.
	General Highway Reserve	25,000	Emergency Overlays to hold roads together.
		\$2,710,000	2025 Subtotal
	TOTAL	\$24,929,500	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #83-Storm Water Improvements

I. PROJECT TYPE: Storm Sewer

II. LOCATION: Concord/Penacook - City Proper and Downtown location areas with closed drainage systems would be prioritized for initial construction.

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> N/A Safety	<input type="checkbox"/> N/A Facility Cond.	<input type="checkbox"/> N/A Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> M Mandates	<input type="checkbox"/> H Service Def.	<input type="checkbox"/> N/A Tax Base Exp.	<input type="checkbox"/> M City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> H O + M Costs	<input type="checkbox"/> N/A Council Goals	<input type="checkbox"/> M Timeliness	Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: A City-wide master plan of existing storm drainage facilities was completed and approved by City Council in 2007. The study includes a comprehensive field assessment of existing conditions, location surveys and mapping of the entire drainage system/drainage areas in the GIS system. Results of the study are being used to prioritize maintenance activities and provide a plan for storm drainage replacement and/or expansion of the system including potential for development of a storm sewer enterprise fund (CIP 479).

The purpose of this project is to design and construct significant improvements to the City's storm water drainage system, to be potentially funded by creation of a storm water enterprise fund.

SERVICE IMPACT: Provides for long-term prioritization of storm sewer repairs and replacement and evaluation of system adequacy to meet regulatory requirements.

IMPACT IF NOT FUNDED: Potential for system failures and regulatory violations.

IV PREVIOUS FISCAL YEAR AUTHORIZED: June 1997 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years) 20

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #83-Storm Water Improvements

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	G.O. Bonds	0	0	1,000,000	1,000,000	1,000,000	1,000,000	1,250,000	1,250,000	1,250,000	1,500,000	9,250,000
General	G.O. Bonds	400,000	250,000	0	0	0	0	0	0	0	0	650,000
	Total	400,000	250,000	1,000,000	1,000,000	1,000,000	1,000,000	1,250,000	1,250,000	1,250,000	1,500,000	9,900,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	400,000	Design, permitting, and construction of culvert replacement on Portsmouth Street (Mill Stream).
		<u>\$400,000</u>	2016 Subtotal
2017	General G.O. Bonds	250,000	Design, permitting, and construction of culvert replacement on Alder Creek Drive (Beaver meadow
		<u>\$250,000</u>	2017 Subtotal
2018	Other G.O. Bonds	1,000,000	Placeholder: Major drainage infrastructure improvements. Subject to CIP 479 (Storm Water Enterprise Fund).
		<u>\$1,000,000</u>	2018 Subtotal
2019	Other G.O. Bonds	1,000,000	Placeholder: Major drainage infrastructure improvements. Subject to CIP 479 (Storm Water Enterprise Fund).
		<u>\$1,000,000</u>	2019 Subtotal
2020	Other G.O. Bonds	1,000,000	Placeholder: Major drainage infrastructure improvements. Subject to CIP 479 (Storm Water Enterprise Fund).
		<u>\$1,000,000</u>	2020 Subtotal
2021	Other G.O. Bonds	1,000,000	Placeholder: Major drainage infrastructure improvements. Subject to CIP 479 (Storm Water Enterprise Fund).
		<u>\$1,000,000</u>	2021 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#83-Storm Water Improvements	
2022	Other G.O. Bonds	1,250,000	Placeholder: Major drainage infrastructure improvements. Subject to CIP 479 (Storm Water Enterprise Fund).
		\$1,250,000	2022 Subtotal
2023	Other G.O. Bonds	1,250,000	Placeholder: Major drainage infrastructure improvements. Subject to CIP 479 (Storm Water Enterprise Fund).
		\$1,250,000	2023 Subtotal
2024	Other G.O. Bonds	1,250,000	Placeholder: Major drainage infrastructure improvements. Subject to CIP 479 (Storm Water Enterprise Fund).
		\$1,250,000	2024 Subtotal
2025	Other G.O. Bonds	1,500,000	Placeholder: Major drainage infrastructure improvements. Subject to CIP 479 (Storm Water Enterprise Fund).
		\$1,500,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$9,900,000</b>	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #84-Water Main Cleaning & Lining

I. PROJECT TYPE: Water Distribution System

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Safety  Facility Cond.  Productivity  
 Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness Water  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this project is to provide for routine cleaning and lining of potable water mains throughout the City.

SERVICE IMPACT: Routine cleaning and lining helps to maintain water quality as well as water pressure. Project will also help eliminate leaks.

IMPACT IF NOT FUNDED: Decreased quality of water for users. Higher costs to repair or replace water mains in the future. Potential loss of water due to leaks in systems.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 50

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	Capital Transfer	0	0	20,000	0	20,000	0	20,000	0	20,000	0	80,000
Water	G.O. Bonds	0	800,000	0	650,000	0	1,040,000	0	700,000	0	400,000	3,590,000
	Total	0	800,000	20,000	650,000	20,000	1,040,000	20,000	700,000	20,000	400,000	3,670,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #84-Water Main Cleaning & Lining

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Water G.O. Bonds	800,000	Line Fernald, 532 LF; Lawrence, 1,150 LF; Ormond, 650 LF; Winthrop, 720 LF; Elliott, 450 LF; Fifield, 200 LF; Hullbakers, 365 LF and Welch St, 285 LF.
		\$800,000	2017 Subtotal
2018	Water Capital Transfer	20,000	Design Orion Street, Kensington Road, Warren Street, and Westbourne Street.
		\$20,000	2018 Subtotal
2019	Water G.O. Bonds	650,000	Line approximately 3,700 LF of main on Kensington, Warren, Orion and Westbourne Streets.
		\$650,000	2019 Subtotal
2020	Water Capital Transfer	20,000	Design of Ridge, School and Valley Streets.
		\$20,000	2020 Subtotal
2021	Water G.O. Bonds	1,040,000	Lining of approximately 5,500 LF of water mains on Ridge, School and Valley Streets.
		\$1,040,000	2021 Subtotal
2022	Water Capital Transfer	20,000	Design Curtice, Edgemont, Engle, Ferry, Foster, Prospect, Blanchard, N. Essex and Rowell.
		\$20,000	2022 Subtotal
2023	Water G.O. Bonds	700,000	Lining of approximately 4,000 LF of water mains on Curtice, Edgemont, Engle, Ferry, Foster, Prospect, Blanchard, N. Essex and Rowel.
		\$700,000	2023 Subtotal
2024	Water Capital Transfer	20,000	Design approximately 2,000 LF of 12" water mains on Pembroke Road, 120 LF of 4" on Perkins Court and 600 LF of 6" on Grant Street.
		\$20,000	2024 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#84-Water Main Cleaning & Lining	
2025	Water G.O. Bonds	400,000	Line approximately 2,000 LF of 12" water mains on Pembroke Road, 120 LF of 4" on Perkins Court and 600 LF of 6 " on Grant Street.
		\$400,000	2025 Subtotal
	TOTAL	\$3,670,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #85-Water Main Replacement

I. PROJECT TYPE: Water Distribution System

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.  
 Water

DESCRIPTION: The purpose of this project is to routinely replace existing water mains, which are either undersized or in too poor of condition to clean and line, with new pipe.

SERVICE IMPACT: Corrects inadequacies in and improves hydraulic configuration of distribution system. Corrects water quality deficiencies when cleaning and lining would be ineffective or of limited value.

IMPACT IF NOT FUNDED: Decreased quality of water for users. Higher costs to repair or replace water mains in the future. Potential loss of water due to leaks in systems.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 90 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	Capital Close-out	62,998	0	0	0	0	0	0	0	0	0	62,998
Water	Capital Transfer	0	20,000	0	20,000	0	20,000	0	20,000	0	20,000	100,000
Water	G.O. Bonds	1,600,000	0	1,500,000	0	1,000,000	0	1,900,000	0	2,470,000	0	8,470,000
	Total	1,662,998	20,000	1,500,000	20,000	1,000,000	20,000	1,900,000	20,000	2,470,000	20,000	8,632,998

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #85-Water Main Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water G.O. Bonds	1,270,000	Replace 6" mains on Rolfe, Cross, Mill and Rockland Road with 8" mains and eliminate active bleeders.
	Water G.O. Bonds	330,000	Replace 8" main on Allen Street with 12" main.
	Water Capital Close-out	62,998	Closeout Share
		\$1,662,998	2016 Subtotal
2017	Water Capital Transfer	20,000	Design of Community and Walnut Streets project.
		\$20,000	2017 Subtotal
2018	Water G.O. Bonds	1,500,000	Replace 6" mains on Walnut Street and Community Drive with 8" mains.
		\$1,500,000	2018 Subtotal
2019	Water Capital Transfer	20,000	Design of Allen St., Sanders and High St. project.
		\$20,000	2019 Subtotal
2020	Water G.O. Bonds	1,000,000	Replace 6" mains on Allen Street with 8" mains. Replace 6" main on High Street with 12" main. Replace an 1.75" main on Sanders Street with a 6 inch main, hydrant installed.
		\$1,000,000	2020 Subtotal
2021	Water Capital Transfer	20,000	Design North Fruit St., Woodman St, and Minot St. project.
		\$20,000	2021 Subtotal
2022	Water G.O. Bonds	1,900,000	Construct North Fruit Street (1,100 LF of 8" main); Woodman Street (370 LF of 8" main), and Minot Street (780 LF of 8" main).
		\$1,900,000	2022 Subtotal
2023	Water Capital Transfer	20,000	Design Lawrence Street, Bee Street, Heights Road, Commercial Street, Vernon, and Wiggins Street (South Main to Donovan Street).

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#85-Water Main Replacement		
		\$20,000	2023 Subtotal	
2024	Water G.O. Bonds	2,470,000		Construct Lawrence Street (414 LF of 2" main); Bee Street, Heights Road; Commercial Street (1,000 LF of 8" main); Vernon (323 LF of 2" main) and Wiggins Street (South Main to Donovan Street).
		\$2,470,000	2024 Subtotal	
2025	Water Capital Transfer	20,000		Design Portsmouth Street (East Side Drive to water tank), Industrial Park Drive (entire length), Oak and Fuller Streets.
		\$20,000	2025 Subtotal	
	<b>TOTAL</b>	<b>\$8,632,998</b>		

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #86-Water Main Construction

I. PROJECT TYPE: Water Distribution System

II. LOCATION: See Attached List

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  Timeliness

City Master Pl.  Water

DESCRIPTION: Construct new water mains to strengthen the transmission and distribution systems.

SERVICE IMPACT: Improves water quality, increases efficiency of system, expands the distribution network throughout the City.

IMPACT IF NOT FUNDED: Existing service deficiencies will remain unchanged.

IV. PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 90

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	950,000	0	0	1,000,000	1,500,000	0	0	0	0	0	3,450,000
	Total	950,000	0	0	1,000,000	1,500,000	0	0	0	0	0	3,450,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water G.O. Bonds	950,000	Construction of water main on Sewalls Falls Road from Manor Road to Concord Monitor Driveway / Whitney Road Ext. in conjunction with the Sewalls Falls Bridge Replacement Project - 2,600LF of 16" main.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#86-Water Main Construction		
		\$950,000	2016 Subtotal	
2019	Water G.O. Bonds	1,000,000		Construct 2,700LF of 12 inch main from Black Hill Road and Manchester Street to Garvins Falls Road. Project to be coordinated with CIP #36.
		\$1,000,000	2019 Subtotal	
2020	Water G.O. Bonds	1,500,000		Constitution Avenue from South Commercial Street to Higgins Place, 1,900LF of 8" main. Project to be coordinated with CIP #18 "Storrs Street Extension North".
		\$1,500,000	2020 Subtotal	
	TOTAL	\$3,450,000		



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #88-Water Plant Improvements

I. PROJECT TYPE: Water Treatment

II. LOCATION: Water Plant

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  L Safety  M Facility Cond.  N/A Productivity  
 Replace  N/A Mandates  M Service Def.  N/A Tax Base Exp.  M City Master Pl.  
 Rebuild  M O + M Costs  N/A Council Goals  M Timeliness Water  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The project will allow for various equipment improvements as recommended by Phase II of the Water Master Plan completed in 2007.

SERVICE IMPACT: Increased reliability and efficiency of Water Treatment Plan equipment.

IMPACT IF NOT FUNDED: It is becoming increasing difficult to find replacement parts for obsolete equipment. Consequently, equipment failures could result in significant or prolonged service interruptions. Limited pumping capacity will cause continuation of inefficient operating configurations that may not meet forecasted demand.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	325,000	340,000	200,000	100,000	600,000	250,000	100,000	200,000	290,000	1,000,000	3,405,000
	Total	325,000	340,000	200,000	100,000	600,000	250,000	100,000	200,000	290,000	1,000,000	3,405,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water G.O. Bonds	300,000	Filter to Waste system for filter backwashing. NHDES Sanitary Survey recommendation.
	Water G.O. Bonds	25,000	Floating Working Platform. Equipment for source water monitoring, sampling and lake security. Replacement of current 1968 Boston Whaler boat.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-WATER	#88-Water Plant Improvements		
			\$325,000	2016 Subtotal
2017	Water G.O. Bonds		300,000	Raw water pump improvements. Last refurbishments 2008 and 2009.
	Water G.O. Bonds		40,000	CO2 tank and control replacement.
			\$340,000	2017 Subtotal
2018	Water G.O. Bonds		200,000	Pump station # 4 chemical process improvements design. Master Plan Phase II recommendation.
			\$200,000	2018 Subtotal
2019	Water G.O. Bonds		100,000	Resurface the concrete deck over the exterior sedimentation basins. Last resurfaced in 1997.
			\$100,000	2019 Subtotal
2020	Water G.O. Bonds		600,000	Pump station # 4. Construct chemical process improvements. Master Plan Phase II recommendation.
			\$600,000	2020 Subtotal
2021	Water G.O. Bonds		250,000	Pump Station. # 4 refurbishment, structural and architectural improvements. Master Plan Phase II recommendation.
			\$250,000	2021 Subtotal
2022	Water G.O. Bonds		100,000	Install baffles in the clear well to prevent short circuiting and improve critical chemical contact time.
			\$100,000	2022 Subtotal
2023	Water G.O. Bonds		200,000	Pilot testing for a new water treatment system at Hutchins Street Facility. Master Plan recommendation.
			\$200,000	2023 Subtotal
2024	Water G.O. Bonds		150,000	Pipe gallery valve replacement.
	Water G.O. Bonds		100,000	Rebuilding four treatment trains. Concrete work.
	Water G.O. Bonds		40,000	Fence replacement.
			\$290,000	2024 Subtotal

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**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-WATER	#88-Water Plant Improvements	
2025	Water G.O. Bonds	1,000,000	Design of new water treatment system at Hutchins Street. Master Plan recommendation.
		\$1,000,000	2025 Subtotal
	TOTAL	\$3,405,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #89-Hall Street Waste Water Treatment Plant Odor Control

I. PROJECT TYPE: Sewer Treatment

II. LOCATION: 125 Hall Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Replace	<input type="checkbox"/> Rebuild	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis	<input type="checkbox"/> Safety	<input type="checkbox"/> Mandates	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Productivity	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> Timeliness	<input type="checkbox"/> City Master Pl.	<input type="checkbox"/> Sewer
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DESCRIPTION: In FY2005 the engineering firm Fay, Spofford and Thorndike conducted an evaluation of odor sources at the Hall St. Waste Water Treatment Plant. Per the findings of this evaluation, a multiphase implementation plan was created in order to construct improvements at the plant to reduce the impact of odors on the surrounding neighborhood. This project provides funding for design and construction of various odor control systems for both the solids and liquids treatment processes conducted at the facility.

SERVICE IMPACT: Further odor abatement in surrounding neighborhoods should be achieved. O&M costs will increase due to additional power, chemical and maintenance requirements.

IMPACT IF NOT FUNDED: Forgo reduction in odor emissions as well as energy consumption.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	G.O. Bonds	0	175,000	2,800,000	0	0	275,000	4,300,000	100,000	0	0	7,650,000
	Total	0	175,000	2,800,000	0	0	275,000	4,300,000	100,000	0	0	7,650,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #89-Hall Street Waste Water Treatment Plant Odor Control

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Sewer G.O. Bonds	175,000	Design engineering services for phase 2 liquid stream odor control improvements. Phase 2 includes full surface covers for the primary clarifiers and associated ductwork and fans to connect to the odor control system constructed in phase 1 improvements.
		\$175,000	2017 Subtotal
2018	Sewer G.O. Bonds	2,800,000	Construction engineering services and construction of odor control improvements designed in FY17.
		\$2,800,000	2018 Subtotal
2021	Sewer G.O. Bonds	275,000	Design of 2nd bio tower refurbishment. Project includes structural repair, new media, distribution system and enclosure for odor control.
		\$275,000	2021 Subtotal
2022	Sewer G.O. Bonds	4,300,000	Construct bio tower improvements designed in FY21.
		\$4,300,000	2022 Subtotal
2023	Sewer G.O. Bonds	100,000	Sludge holding tank scrubber refurbishment.
		\$100,000	2023 Subtotal
TOTAL		\$7,650,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #91-Sewer Main Rehabilitation and Construction

I. PROJECT TYPE: Sewer Collection

II. LOCATION: See Explanation Below

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Safety  Facility Cond.  Productivity  
 Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness Sewer  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this project is to line or replace sewer mains which are in poor condition. This project also includes maintenance of the sewer interceptors access roads.

SERVICE IMPACT: Reduced maintenance and improved service.

IMPACT IF NOT FUNDED: Continued deterioration of sewer system will result in increasing ongoing maintenance costs, potential health and safety liabilities, and more expensive permanent repairs in the future.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 50 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	Capital Transfer	100,000	30,000	50,000	30,000	65,000	45,000	65,000	45,000	45,000	45,000	520,000
Sewer	G.O. Bonds	0	300,000	0	350,000	0	175,000	0	225,000	400,000	0	1,450,000
	Total	100,000	330,000	50,000	380,000	65,000	220,000	65,000	270,000	445,000	45,000	1,970,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #91-Sewer Main Rehabilitation and Construction

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Sewer Capital Transfer	80,000	Interceptor access road design and maintenance east of 426 - 513 North State Street. Culvert design and replacement, brush and tree removal, reclaim, rip rap, loam and seed.
	Sewer Capital Transfer	20,000	Design Putney, B and Forest streets project.
		\$100,000	2016 Subtotal
2017	Sewer G.O. Bonds	300,000	Replace 480 LF of 8" main and existing domestic gates in Putney Street. Replace 8" main in B Street. Replace 155 LF of sewer main in Forest St. (cross country).
	Sewer Capital Transfer	30,000	Interceptor access road maintenance Hall Street north of I-93. Approximately 800LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$330,000	2017 Subtotal
2018	Sewer Capital Transfer	30,000	Interceptor access road maintenance Hall Street north of I-93. Approximately 800 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
	Sewer Capital Transfer	20,000	Design 2,820 LF of lining on Merrimack, Village (from Stark to Beede) and Chandler
		\$50,000	2018 Subtotal
2019	Sewer G.O. Bonds	350,000	Line 24" and 8" sewer main Merrimack( #90 to Penacook St), Village (Stark to Beede) and Chandler(town line to Elm St.).
	Sewer Capital Transfer	30,000	Interceptor access road maintenance South Main Street north of I-93. Approximately 630 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$380,000	2019 Subtotal
2020	Sewer Capital Transfer	45,000	Interceptor access road maintenance Dunbarton Road to Langley Parkway. Approximately 1,450 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
	Sewer Capital Transfer	20,000	Design Rumford Street, Sexton Ave., Vernon/Liberty Street (#10 Vernon, southeast to Liberty St, then north to White Park), Chestnut Street and Valley Street (#4 North to 109 Liberty).
		\$65,000	2020 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#91-Sewer Main Rehabilitation and Construction	
2021	Sewer G.O. Bonds	175,000	Lining approximately 1,400LF of main on Rumford Street, Sexton Ave., Vernon/Liberty Street (#10 Vernon, southeast to Liberty St, then north to White Park), Chestnut Street and Valley Street (#4 North to 109 Liberty).
	Sewer Capital Transfer	45,000	Interceptor access road maintenance Dunbarton Road to Langley Parkway. Approximately 1,450 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$220,000	2021 Subtotal
2022	Sewer Capital Transfer	45,000	Interceptor access road maintenance Langley Parkway to Memorial Field. Approximately 1,500 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
	Sewer Capital Transfer	20,000	Design Granite, North State, Martin, Prospect and Jennings.
		\$65,000	2022 Subtotal
2023	Sewer G.O. Bonds	225,000	Line 2,300LF of 8, 10 and 12 inch main on Granite, North State, Martin, Prospect and Jennings.
	Sewer Capital Transfer	45,000	Interceptor access road maintenance Langley Parkway to Memorial Field. Approximately 1,500 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$270,000	2023 Subtotal
2024	Sewer G.O. Bonds	400,000	Upgrade 1,500 feet of 15" sewer main on Manchester Street in the vicinity of Old Turnpike Road to accommodate Garvins Falls development and New Hampshire Department of Environmental Services sewer capacity requirements.
	Sewer Capital Transfer	45,000	Interceptor access road maintenance #40 Elm Street to Village Street. Approximately 1,060 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$445,000	2024 Subtotal
2025	Sewer Capital Transfer	45,000	Interceptor access road maintenance.
		\$45,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$1,970,000</b>	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #97-Low Avenue Improvements

I. PROJECT TYPE: Downtown

II. LOCATION: Low Avenue, Phenix Avenue, and Dubois Avenue

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="N/A"/> Safety	<input type="text" value="L"/> Facility Cond.	<input type="text" value="N/A"/> Productivity	
	<input type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="M"/> Service Def.	<input type="text" value="L"/> Tax Base Exp.	<input type="text" value="M"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="H"/> O + M Costs	<input type="text" value="H"/> Council Goals	<input type="text" value="L"/> Timeliness	Economic Development
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to design and construct streetscape improvements proposed for Low Avenue as originally proposed in the 1997 Downtown Master Plan. In 2005 the City completed the Opportunity Corridor Master Plan which further refined this concept. In 2006, with financial support from the City and Concord 20/20, Main Street Concord updated Downtown Streetscape and Signage Improvements Program which also examined improvements for Low and Phenix Avenues.

Minor improvements to the westerly section of Phenix Avenue will occur as part of CIP 460 "Downtown Complete Streets Project" during FY2016. However, improvements to Low and Dubois Avenue will likely not occur until such time as redevelopment of the Phenix Theatre, the CVS Pharmacy building, or other surrounding properties moves forward.

SERVICE IMPACT: Improved usability and appearance of, as well as community satisfaction with these public ways, and potential for redevelopment of adjacent private properties resulting in tax base expansion.

IMPACT IF NOT FUNDED: An opportunity for tax base expansion and the enhancement of downtown business activity would not be exploited.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	Tax Increment Financing	0	0	0	0	0	0	0	0	400,000	4,000,000	4,400,000
	Total	0	0	0	0	0	0	0	0	400,000	4,000,000	4,400,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #97-Low Avenue Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2024	Other Tax Increment Financing	400,000	Conceptual and final design, as well as legal services to determine layout of Low Avenue and other affected streets. The final design will link Eagle Square to Depot Street and Kennedy Lane. Designs will be based on concepts included within 1997 Downtown Master Plan, 2006 Opportunity Corridor Master Plan, 2006 Main Street Concord Downtown Streetscape Plan, and 2013 Downtown Complete Street Project Design. Project anticipates expansion of the Sears Block TIF District in order to use new incremental tax revenues associated with redevelopment of Phenix Theatre, the CVS Building, and surrounding properties.
		\$400,000	2024 Subtotal
2025	Other Tax Increment Financing	4,000,000	Construct improvements to Low, Phenix, and Dubois Avenues. Project anticipates burying aerial utilities and acquisition of private property rights within Low Avenue.
		\$4,000,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$4,400,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #104-Hall Street Waste Water Treatment Plant Improvements

I. PROJECT TYPE: Sewer Treatment

II. LOCATION: 125 Hall Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> H	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> L	Mandates	<input type="checkbox"/> M	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> M City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> L	O + M Costs	<input type="checkbox"/> N/A	Council Goals	<input type="checkbox"/> H	Timeliness	Sewer
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: The purpose of this project is to implement a variety of improvements as recommended in the 2002 Comprehensive Facility Evaluation prepared by Woodard and Curran. Projects address code and safety issues, as well as immediate and long-term capital needs.

SERVICE IMPACT: Provides planned upgrade and renovation of existing infrastructure to provide short-term and long-term reliability, meet code and regulation modifications established since the plant was built, and improve overall efficiency.

IMPACT IF NOT FUNDED: Potential for increased O&M costs over time; potential for costly emergency repairs or replacements as outdated components fail; potential for citations or fines for failure to meet life safety or building codes.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	G.O. Bonds	3,870,000	1,950,000	2,130,000	1,325,000	375,000	3,505,000	1,880,000	1,175,000	1,500,000	12,000,000	29,710,000
Sewer	Capital Transfer	0	0	0	0	0	0	0	15,000	0	0	15,000
	Total	3,870,000	1,950,000	2,130,000	1,325,000	375,000	3,505,000	1,880,000	1,190,000	1,500,000	12,000,000	29,725,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #104-Hall Street Waste Water Treatment Plant Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Sewer G.O. Bonds	1,550,000	Building systems improvements - construction of electrical distribution system improvements designed in FY15.
	Sewer G.O. Bonds	945,000	Equipment/process improvements - construction of equipment/process upgrades designed in FY15.
	Sewer G.O. Bonds	850,000	Building/structural improvements - necessary structural concrete repairs at bio tower, chlorine contact tank, aeration tanks, and administration building.
	Sewer G.O. Bonds	300,000	Equipment/process improvements - design engineering allowance for anticipated upgrade/refurbishment of RDP sludge stabilization process equipment.
	Sewer G.O. Bonds	125,000	Equipment/process improvements - upgrade SCADA system software to coincide with IT planned replacement of SCADA hardware.
	Sewer G.O. Bonds	100,000	Fire alarm improvements at Hall Street Waste Water Treatment Plant
		\$3,870,000	2016 Subtotal
2017	Sewer G.O. Bonds	1,200,000	Equipment/process improvements - construction of RDP sludge stabilization system upgrade designed in FY16.
	Sewer G.O. Bonds	210,000	Building systems improvements - replacement of influent building standby generator set.
	Sewer G.O. Bonds	200,000	Electrical system upgrades
	Sewer G.O. Bonds	150,000	Equipment/process improvements - design engineering of trucked liquid waste receiving facility.
	Sewer G.O. Bonds	75,000	Building systems improvements - boiler flue exhaust piping modifications and combustion air system upgrade.
	Sewer G.O. Bonds	75,000	Building system improvements - design engineering for HVAC system upgrade
	Sewer G.O. Bonds	40,000	Building systems improvements - upgrade service elevator controls.
		\$1,950,000	2017 Subtotal
2018	Sewer G.O. Bonds	700,000	Equipment/process improvements - construction administration and construction of trucked liquid waste receiving facility designed in FY17.
	Sewer G.O. Bonds	440,000	Building systems improvements - HVAC system upgrade in sludge process area, truck bays, maintenance shop, electrical shop, secondary pump station and tunnel. Project includes code required separation of tunnel and sludge pump rooms.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	GS-SEWER	#104-Hall Street Waste Water Treatment Plant Improvements		
	Sewer G.O. Bonds		410,000	Electrical system upgrades.
	Sewer G.O. Bonds		300,000	Building/structural improvements - refurbishment of first of two sludge holding tanks. Project entails repair of deteriorating concrete and recoating of interior concrete surfaces.
	Sewer G.O. Bonds		210,000	Building systems improvements - replacement of administration building standby generator set.
	Sewer G.O. Bonds		70,000	Equipment/process improvements - replacement of two sodium hypochlorite storage tanks and sodium hypochlorite flash mixer.
			\$2,130,000	2018 Subtotal
2019	Sewer G.O. Bonds		490,000	Building systems improvements - replacement of intermediate pump station MCC's.
	Sewer G.O. Bonds		310,000	Building/structural improvements - refurbishment of second of two sludge holding tanks. Project entails repair of deteriorating concrete and recoating of interior concrete surfaces.
	Sewer G.O. Bonds		200,000	Site/security improvements - installation of 6,000 LF of 8' chain link security fencing around entire process area. Includes allowance for necessary tree and brush removal.
	Sewer G.O. Bonds		150,000	Building systems improvements - influent building HVAC upgrades.
	Sewer G.O. Bonds		100,000	Building/structural improvements - replacement of roof on Admin GBT room with EDPM membrane roof system.
	Sewer G.O. Bonds		75,000	Site/security improvements - allowance for necessary pavement repairs.
			\$1,325,000	2019 Subtotal
2020	Sewer G.O. Bonds		200,000	Equipment/process improvements - replacement of clarifier drive mechanisms.
	Sewer G.O. Bonds		175,000	Building systems improvements - intermediate building and chlorine building HVAC upgrades.
			\$375,000	2020 Subtotal
2021	Sewer G.O. Bonds		2,100,000	Equipment/process improvements - replacement of last of 3 original secondary clarifier drive mechanisms.
	Sewer G.O. Bonds		350,000	Equipment/process improvements - aeration blower repair/replacement.
	Sewer G.O. Bonds		300,000	Building/structural improvements - renovation of administration area to include flooring, ceilings, partitions, doors & frames, cabinets, and plumbing fixtures. Also provides for improvements to meet accessibility code requirements.
	Sewer G.O. Bonds		300,000	Building systems improvements - administration building offices and lab HVAC upgrades.
	Sewer G.O. Bonds		250,000	Equipment/process improvements - sludge truck loading conveyor upgrade.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	GS-SEWER	#104-Hall Street Waste Water Treatment Plant Improvements		
	Sewer G.O. Bonds		130,000	Equipment/process improvements - sludge dewatering polymer batch system upgrade.
	Sewer G.O. Bonds		75,000	Equipment/process improvements - grit tank and sludge holding tank blower replacement.
			\$3,505,000	2021 Subtotal
2022	Sewer G.O. Bonds		750,000	Building systems improvements - replacement of 35KV switchgear and 3 pad mounted transformers.
	Sewer G.O. Bonds		525,000	Equipment/process improvements - replacement of 3rd of three original equipment screw pumps.
	Sewer G.O. Bonds		250,000	Equipment/process improvements - sludge holding tank mixing system upgrade.
	Sewer G.O. Bonds		210,000	Equipment/process improvements - replacement of aeration tank isolation gates.
	Sewer G.O. Bonds		95,000	Equipment/process improvements - replacement of waste activated sludge pumps and drives.
	Sewer G.O. Bonds		50,000	Equipment/process improvements - replacement of scum processing equipment.
			\$1,880,000	2022 Subtotal
2023	Sewer G.O. Bonds		500,000	Building/structural improvements - allowance for necessary concrete/structural repairs.
	Sewer G.O. Bonds		135,000	Equipment/process improvements - replacement of primary clarifier isolation gates.
	Sewer G.O. Bonds		135,000	Equipment/process improvements - replacement of secondary clarifier drain valves and inlet gates.
	Sewer G.O. Bonds		130,000	Equipment/process improvements - replacement of primary sludge grinders, primary scum pump and clarifier drain valves.
	Sewer G.O. Bonds		105,000	Building systems improvements - lighting systems upgrades at head works, intermediate, secondary, chlorine, and sludge processing areas.
	Sewer G.O. Bonds		95,000	Equipment/process improvements - lime storage/transfer system upgrade.
	Sewer G.O. Bonds		60,000	Building/structural improvements - replacement of 5 garage bay insulated rolling doors.
	Sewer Capital Transfer		15,000	Equipment/process improvements - replacement of 4wd mower.
	Sewer G.O. Bonds		15,000	Equipment/process improvements - replacement of influent flow box mixer.
			\$1,190,000	2023 Subtotal
2024	Sewer G.O. Bonds		1,500,000	Equipment/process improvements - design engineering of sludge stabilization and dewatering system upgrade.
			\$1,500,000	2024 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-SEWER	#104-Hall Street Waste Water Treatment Plant Improvements	
2025	Sewer G.O. Bonds	12,000,000	Equipment/process improvements - construction of sludge stabilization and dewatering system upgrade designed in FY24.
		<u>\$12,000,000</u>	2025 Subtotal
	TOTAL	<u>\$29,725,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #107-Golf Course Club House and Maintenance Buildings

I. PROJECT TYPE: Golf

II. LOCATION: Beaver Meadow Golf Course

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="L"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="H"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="M"/> Service Def.	<input type="checkbox" value="L"/> Tax Base Exp.	<input type="checkbox" value="M"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="M"/> O + M Costs	<input type="checkbox" value="L"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Various facility improvements to Beaver Meadow Clubhouse and associated accessory buildings, including upgrades and continued improvements to the Pro Shop, Clubhouse, Maintenance Facility, Cart Storage Building and Irrigation Pump House. Funding is contingent upon sufficient net operating revenues within the Golf Enterprise Fund to support capital investments.

SERVICE IMPACT: Routine investment in the golf course will preserve and improve the quality of the course thereby maintaining customer satisfaction and market share.

IMPACT IF NOT FUNDED: Without routine investments, the facility will deteriorate causing loss of market share and requiring more expensive repairs and renovations in the future.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Golf	Capital Close-out	5,169	0	0	0	0	0	0	0	0	0	5,169
Golf	Capital Transfer	0	0	0	0	0	0	20,000	0	0	0	20,000
Golf	G.O. Bonds	15,000	0	0	0	0	15,000	15,000	0	0	0	45,000
	Total	20,169	0	0	0	0	15,000	35,000	0	0	0	70,169



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:            REC-GROUNDS    #107-Golf Course Club House and Maintenance Buildings

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Golf G.O. Bonds	15,000	Maintenance Barn Improvements.
	Golf Capital Close-out	5,169	
		\$20,169	2016 Subtotal
2021	Golf G.O. Bonds	15,000	Carpet and floor treatment replacements throughout the clubhouse.
		\$15,000	2021 Subtotal
2022	Golf Capital Transfer	20,000	Replace Kitchen equipment.
	Golf G.O. Bonds	15,000	Replace clubhouse furniture.
		\$35,000	2022 Subtotal
TOTAL		\$70,169	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #114-Penacook Lake Dam and Spillway Rehabilitation

I. PROJECT TYPE: Water Treatment

II. LOCATION: 53 Hutchins St.

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  M Safety  M Facility Cond.  N/A Productivity  
 Replace  L Mandates  M Service Def.  N/A Tax Base Exp.  N/A City Master Pl.  
 Rebuild  N/A O + M Costs  N/A Council Goals  M Timeliness Water  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: An engineering study has preliminarily identified deficiencies in the dam and spillway configuration and some age related deterioration of the structure. A more refined construction cost estimate will be available once final design is completed.

SERVICE IMPACT: The dam provides retention for the main source of water for the City. Either physical or regulatory restriction on the dam would effect water service.

IMPACT IF NOT FUNDED: Age deterioration of dam will continue. Strengthened mandates for design and capacity may require construction or reduced operating capacity. The City could be at risk of legal action for operating and unsafe facility or, at worst, liability from a dam breach or spillway failure.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 50

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	0	0	0	0	0	0	0	175,000	0	2,000,000	2,175,000
	Total	0	0	0	0	0	0	0	175,000	0	2,000,000	2,175,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:           GS-WATER   #114-Penacook Lake Dam and Spillway Rehabilitation

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2023	Water G.O. Bonds	175,000	Engineering forensic investigation, report and design of the Penacook Lake dam and spillway.
		<u>\$175,000</u>	2023 Subtotal
2025	Water G.O. Bonds	2,000,000	Rehabilitation/replacement of dam and spillway. Initial estimate only. Engineering design will determine extent and cost of construction.
		<u>\$2,000,000</u>	2025 Subtotal
	TOTAL	<u>\$2,175,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-HIGHWAY / UTILITIES #121-Vehicle & Equipment Replacement Program

I. PROJECT TYPE: GSD Vehicles

II. LOCATION: City-wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="N/A"/> Facility Cond.	<input type="checkbox" value="L"/> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="M"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="H"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="L"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Motor Vehicle Equipment
	<input checked="" type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: This project establishes a long-range replacement plan for City Highway/Utilities, Water Treatment Plant, Waste Water Treatment Plants, as well as Parks and Recreation vehicles and heavy equipment. Vehicle and equipment replacement for the Police and Fire Departments are addressed through other CIP projects or the operating budget. Phased replacement of vehicles and equipment will minimize potential service interruptions due to break downs / failures and provides for cost savings through economies of scale which are made possible from multiple vehicle procurement where applicable. Restructuring of the fleet to a more efficient blend of vehicles will coincide with vehicle replacement.

SERVICE IMPACT: Establishes long range replacement plan that improves service with more reliable vehicles, lower costs due to multi-vehicle procurements and maintenance support. Supports appropriate reassignment of some serviceable vehicles to less critical tasks instead of replacement.

IMPACT IF NOT FUNDED: Fix when fail replacement program with high procurement and maintenance costs.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	G.O. Bonds	38,000	94,000	110,000	498,000	180,000	190,000	150,000	450,000	0	75,000	1,785,000
Water	G.O. Bonds	38,000	60,000	80,000	157,000	95,000	290,000	150,000	0	100,000	110,000	1,080,000
General	G.O. Bonds	592,000	700,000	800,000	900,000	1,000,000	1,100,000	1,200,000	1,300,000	1,400,000	1,400,000	10,392,000
General	Equip Replace Reserve	300,000	0	0	0	0	0	0	0	0	0	300,000
	Total	968,000	854,000	990,000	1,555,000	1,275,000	1,580,000	1,500,000	1,750,000	1,500,000	1,585,000	13,557,000

**CITY OF CONCORD, NEW HAMPSHIRE**

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-HIGHWAY / UTILITIES #121-Vehicle & Equipment Replacement Program

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	202,000	New tractor and pickup truck with plow and sander
	General G.O. Bonds	150,000	Replace 6 wheel dump truck units #057
	General Equip Replace Reserve	150,000	Replace one (1) six wheel dump truck unit # 056
	General Equip Replace Reserve	150,000	Replace 6 wheel dump truck (highways) unit #425
	General G.O. Bonds	150,000	Replace 6 wheel dump truck units #058
	General G.O. Bonds	60,000	Replace two king cab pick up trucks, CD Dept./Engineering. 455, 456
	Water G.O. Bonds	38,000	Replace 1 water utility 4X4 pick-up truck (2006) unit #821
	Sewer G.O. Bonds	38,000	Replace 4x4 pick-up unit #702 F250
	General G.O. Bonds	30,000	Replace 2 stainless steel 5cy sanders (2002, 2002) units 0056SS, 0058SS
			\$968,000
2017	General G.O. Bonds	295,000	Replace 1 street sweeper (2002) unit #014
	General G.O. Bonds	86,000	Replace 4x4 pick-up truck with dump body (2006) unit #1106
	General G.O. Bonds	78,000	Replace 2 - F250 4x4 pick-up trucks (2006, 2006) units 654, 655
	General G.O. Bonds	66,000	Replace F350 4x4 with tool body and lift gate (2004) unit #088
	Sewer G.O. Bonds	62,000	Replace 1 4x2 F350 crew cab (2006) unit #703
	General G.O. Bonds	60,000	Replace 4x4 1-ton dual wheel F350 (2003) unit 038
	Water G.O. Bonds	60,000	Replace vacuum excavator (2002) unit #134
	General G.O. Bonds	50,000	Replace 2WD 1-ton pick-up truck with 1-ton 4WD unit with plow (2001). F350 crew cab unit #200 (Parks / Cemeteries)
	Sewer G.O. Bonds	32,000	One 5 door hatchback sedan (2009) unit #876
	General G.O. Bonds	20,000	Replace tilt top trailer (1966) unit #065
	General G.O. Bonds	20,000	Replace landscape trailer (1995) unit #184
	General G.O. Bonds	15,000	Replace 1 stainless steel 5cy sander (1998) unit #0045SS
	General G.O. Bonds	10,000	Replace 3.4cy stainless steel spreader for one ton (2002) 1106SS

**CITY OF CONCORD, NEW HAMPSHIRE**

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program	
		\$854,000	2017 Subtotal
2018	General G.O. Bonds	420,000	Replace 3 highway backhoes (2006, 2007) unit #086, 1342 & 1343,
	General G.O. Bonds	120,000	Replace 1988 snow blower. Unit #001 HWY
	General G.O. Bonds	100,000	Replace gang mower 164 unit #670
	Sewer G.O. Bonds	70,000	Replace one ton crew cab "brick" truck (2004) 135
	General G.O. Bonds	58,000	Replace cemetery F450 pick-up with dump body (2006) unit #601
	General G.O. Bonds	54,000	Replace skid steer tractor with accessories (2002) unit #098
	Water G.O. Bonds	40,000	Replace 1 c1500 4x2 pick-up truck (2006) unit #871
	Sewer G.O. Bonds	40,000	Replace 1 4x4 pick-up with supercab body (2008) unit #751
	Water G.O. Bonds	40,000	Replace 1 4x4 pick-up truck with extended cab (2008) unit #872
	General G.O. Bonds	38,000	Replace 1 4-ton asphalt hauler (1999) unit #066
	General G.O. Bonds	10,000	Replace stainless steel 1.5cy sander (2000) unit #0601SS
		\$990,000	2018 Subtotal
2019	Sewer G.O. Bonds	342,000	Replace truck sludge hauler (2001) unit #112
	General G.O. Bonds	292,000	Replace 4- F450 4x4 pick-up trucks (2009,2009,2009,2009) 1103,1104,1105, 669
	General G.O. Bonds	270,000	Replace wheel loader #90
	General G.O. Bonds	150,000	Replace Cemetery back-hoe. (2004) 616
	Sewer G.O. Bonds	120,000	Replace 4wd utility tractor unit # 752 WWHALL
	Water G.O. Bonds	76,000	Replace 2 pick-up trucks with supercab bodies (2010, 2010 units #802 & 803
	Water G.O. Bonds	45,000	Replace 4x2 super cab F150 #801
	General G.O. Bonds	40,000	Replace 1 3/4-ton crew cab pick-up truck (2008) unit #653
	General G.O. Bonds	40,000	Replace 1 K2500 3/4-ton 4x4 pick-up truck (2006) unit #651
	General G.O. Bonds	40,000	Replace 3/4-ton 4x4 pick up and plow (2006) 1101
	Sewer G.O. Bonds	36,000	Replace 1 tow behind compressor (1993) unit #422
	General G.O. Bonds	36,000	Replace tow behind air compressor (2001) 407
	Water G.O. Bonds	36,000	Replace tow behind compressor (2001) 409

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:		GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program
	General G.O. Bonds	32,000	Replace 5-ton roller (1991) 072
		\$1,555,000	2019 Subtotal
2020	General G.O. Bonds	190,000	Replace 1 tree bucket truck (2008) unit #667
	Sewer G.O. Bonds	180,000	Replace 6 wheel dump truck unit #753 S UTIL/COM
	General G.O. Bonds	99,000	Replace 1 shop fork truck (1997) unit #149
	Water G.O. Bonds	95,000	Replace 1 F550 2wd pick-up truck (2008) unit #822
	General G.O. Bonds	80,000	Replace 2 leaf blowers and boxes (1999,1998). 049, 050 HWY
	General G.O. Bonds	65,000	Replace John Deere Tractor. Grounds/COMF 665
	General G.O. Bonds	62,000	Replace airport/properties 1-ton pick-up truck with dump body. (2005) 901
	General G.O. Bonds	60,000	Replace 1 4x4 1-ton pick-up truck (2008) unit #656
	General G.O. Bonds	60,000	Replace vibratory roller (2001) unit #071
	General G.O. Bonds	56,000	Replace one (1) skid steer unit #1360
	General G.O. Bonds	55,000	Replace 1 2wd 3500 series pick-up truck (2008) unit #902
	General G.O. Bonds	42,000	Replace 1 4x4 2500 series pick-up truck (2008) unit #903
	General G.O. Bonds	40,000	Replace Tarco Leaf Loader Unit #197 Hwy/COMF
	General G.O. Bonds	40,000	Replace leaf loader (2000) CEM unit #190
	General G.O. Bonds	36,000	Replace 1 1/2-ton supercar pick-up truck (2008) unit #904
	General G.O. Bonds	33,000	Replace 4X2 1 supercab pick-up truck (2010) unit #458
	General G.O. Bonds	25,000	Replace 1 5-ton tandem trailer (2000) unit #064
	General G.O. Bonds	21,000	Replace 1 low bed tilt top trailer (2004) unit #185
	General G.O. Bonds	21,000	Replace 1 sweeper trailer (2003) unit #188
	General G.O. Bonds	15,000	Replace 1- 20' trailer (2002) unit #189
		\$1,275,000	2020 Subtotal
2021	General G.O. Bonds	380,000	Replace two 6-wheel dump trucks units #1225 & 1227
	General G.O. Bonds	380,000	Replace two 6-wheel dump trucks (2008, 2008) units 1228,1229
	Sewer G.O. Bonds	190,000	Replace one 6-wheel dump truck (2008) unit 704

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program
	General G.O. Bonds	190,000 Replace 1 six wheel dump (2006) unit #1224
	Water G.O. Bonds	190,000 Replace 1 six wheel dump truck "D79" (2006) unit 1226
	General G.O. Bonds	132,000 Snow blower unit #004
	Water G.O. Bonds	50,000 Replace Transit Connect compressed natural gas (CNG) van #754
	Water G.O. Bonds	50,000 Replace Transit Connect CNG van #804
	General G.O. Bonds	18,000 Replace 1 stainless 6cy sander (2008) unit 704SS
		\$1,580,000            2021 Subtotal
2022	General G.O. Bonds	370,000 Replace two (2) Trackless Sidewalk Tractors HWY/COMF Units #1365,1366
	General G.O. Bonds	225,000 Replace one 10-wheel dump truck (2009) unit 1230
	Sewer G.O. Bonds	150,000 Replace Case Loader/Backhoe #723
	Water G.O. Bonds	150,000 Replace Case Loader/Backhoe #823
	General G.O. Bonds	132,000 Snow blower unit #1375
	General G.O. Bonds	100,000 Replace two (2) skid steer units # 1361 & 1362
	General G.O. Bonds	66,000 Stump grinder unit #666
	General G.O. Bonds	62,000 Chipper unit #668
	General G.O. Bonds	57,000 Slide in hot box unit #1404
	General G.O. Bonds	45,000 Tow behind sweeper unit #1390
	General G.O. Bonds	42,000 Cargo van unit #602
	General G.O. Bonds	40,000 Leaf loader unit #1378
	General G.O. Bonds	40,000 Replace trailer #1401
	General G.O. Bonds	21,000 Replace 11 cy sander #1230SS
		\$1,500,000            2022 Subtotal
2023	General G.O. Bonds	780,000 Replace four (4) 6 wheel dump trucks units # 1231,1232,1233,1234
	Sewer G.O. Bonds	450,000 Replace 10 wheel vactor truck #711
	General G.O. Bonds	280,000 Replace 1 front end bucket loader (2001) unit #025
	General G.O. Bonds	100,000 Service truck unit #009



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program
	General G.O. Bonds	50,000 Replace 20 ton low bed trailer (1989) unit #082
	General G.O. Bonds	30,000 Atlantic trailer unit #1403
	General G.O. Bonds	25,000 Replace saltmarsh trailer unit #115 (GSD/Public Properties)
	General G.O. Bonds	25,000 Tandem trailer unit #061
	General G.O. Bonds	10,000 Utility trailer unit #1402
		\$1,750,000            2023 Subtotal
2024	General G.O. Bonds	286,000 Replace wheel loader unit #1301
	General G.O. Bonds	160,000 Replace 2 Crew Cab rack body F350 #1107 & #1108
	General G.O. Bonds	156,000 Band wagon unit #180
	General G.O. Bonds	100,000 Replace 4x4 pickup/dump F550 #1109
	General G.O. Bonds	100,000 Replace John Deere Tractor #673
	General G.O. Bonds	96,000 Replace F550 carpenter van #905
	General G.O. Bonds	60,000 Replace 3/4 ton cargos van #459
	Water G.O. Bonds	60,000 Replace Crew Cab utility body F350 #825
	General G.O. Bonds	40,000 replace 4x2 super cab pickup # 1110
	General G.O. Bonds	40,000 replace 4x2 super cab pickup # 906
	General G.O. Bonds	40,000 Replace sign board & trailer unit #445 CD/COMF
	General G.O. Bonds	40,000 Replace sign board & trailer unit #447 CD/COMF
	General G.O. Bonds	40,000 Replace sign board & trailer unit #444 HWY/COMF
	Water G.O. Bonds	40,000 Replace Extra Cab pickup #824
	General G.O. Bonds	40,000 Replace sign board & trailer unit #450 CD/COMF
	General G.O. Bonds	40,000 Replace sign board & trailer unit #446 HWY/COMF
	General G.O. Bonds	40,000 Replace sign board & trailer unit #449 CD/COMF
	General G.O. Bonds	36,000 Replace 2 (two) 6 CY sanders #1231SS & 1232SS
	General G.O. Bonds	21,000 Replace 11 CY sander #054SS
	General G.O. Bonds	20,000 Replace 6 ton utility trailer GRNDS/COMF unit #652
	General G.O. Bonds	15,000 Replace 3.4 CY sander #901SS

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program		
	General G.O. Bonds	15,000	Replace 3.4 CY sander #1109SS	
	General G.O. Bonds	15,000	Replace 1 spreader 1.5 CY (2004) unit #0875SS	
		\$1,500,000	2024 Subtotal	
2025	General G.O. Bonds	675,000	Replace 3 (three) ten wheel dumps #1235, #1236 & #1237	
	General G.O. Bonds	410,000	Replace 2 (two) sidewalk tractors #1367 & #1368	
	General G.O. Bonds	90,000	Replace 3 (three) 11CY sanders #1235SS, #1236SS & 1237SS	
	General G.O. Bonds	86,000	Replace welder unit # 398	
	General G.O. Bonds	75,000	Replace 4x4 pickup/dump # 691	
	Sewer G.O. Bonds	75,000	Replace Ford F-350 pickup # 755	
	Water G.O. Bonds	65,000	Replace Ford F- 350 pickup # 877	
	General G.O. Bonds	64,000	Replace 4 (four) 3.4 cy sanders #0669SS, #1103SS, #1104SS & 1105SS	
	Water G.O. Bonds	45,000	Replace Ford F-150 extra cab pickup # 826	
		\$1,585,000	2025 Subtotal	
	TOTAL	\$13,557,000		

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #124-Water System SCADA Improvements

I. PROJECT TYPE: Water Treatment

II. LOCATION: 53 Hutchins St. and pump stations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
	<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

DESCRIPTION: The SCADA (Supervisory, Control and Data Acquisition) system will provide for more efficient collection of operations information from the Water Plant and all remote pumping stations and tanks. It provides monitoring capability and controls equipment based upon information that is transmitted to a central control station. All information is stored on a database to provide easy retrieval.

SERVICE IMPACT: Increase efficiency of operations by being able to monitor and control all facilities from a central station. The system allows for collection of historical data, which can be analyzed to improve operations and react knowledgably to changing conditions. This also has a potential to reduce operating costs.

IMPACT IF NOT FUNDED: Continuation of current system with only partial and uncoordinated implementation. Reliance on manual operations and manual input of all information will continue. The existing data collection system is proprietary and will not convert to an industry standard SCADA system.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	Capital Transfer	30,000	0	0	30,000	0	0	25,000	0	30,000	0	115,000
	Total	30,000	0	0	30,000	0	0	25,000	0	30,000	0	115,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-WATER   #124-Water System SCADA Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water Capital Transfer	30,000	SCADA equipment and software needs assessment update. Project shall review existing conditions and make recommendations for future growth.
		\$30,000	2016 Subtotal
2019	Water Capital Transfer	30,000	SCADA equipment and software updates.
		\$30,000	2019 Subtotal
2022	Water Capital Transfer	25,000	SCADA equipment and software updates.
		\$25,000	2022 Subtotal
2024	Water Capital Transfer	30,000	SCADA equipment and software updates.
		\$30,000	2024 Subtotal
	<b>TOTAL</b>	<b>\$115,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FINANCE PURCHASING #130-Multi-Function Photocopy Machines

I. PROJECT TYPE: Information Technology & Communications

II. LOCATION: City Hall, City Hall Annex, COMF, Water Treatment Plant, Parks & Recreation, Library, Police Department and Prosecutor's Office.

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="N/A"/> Safety	<input type="text" value="M"/> Facility Cond.	<input type="text" value="H"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="L"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="L"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="M"/> Timeliness	<input type="text" value="MIS"/>
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Programmed replacement of 24 photocopiers city-wide, which support all departments. Networkable multi-function units for photocopying, printing from the desktop and scanning to the desktop. Replacement of black & white units with color multi-function units and eliminating color desktop printers as resources allow. Staff are encouraged to print from these networked multi-function units as the cost per page is substantially less than printing from a stand alone LaserJet printer.

SERVICE IMPACT: Loss in productivity as older technology multi-function units continue to require repeated service calls during the end of their projected life cycle of 5 - 7 years. Service becomes more expensive after 5 years and repair parts are not readily available.

IMPACT IF NOT FUNDED: Increased costs for maintenance and printing. Less functionality and decreased productivity.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2015 PREVIOUS AMOUNT: 9,100

V. PROJECT USEFUL LIFE (In Years): 6 Expected Bond Term (in Years) 6

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	43,500	28,500	31,500	33,000	20,000	15,000	24,000	60,000	40,500	26,500	322,500
	Total	43,500	28,500	31,500	33,000	20,000	15,000	24,000	60,000	40,500	26,500	322,500

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FINANCE PURCHASING #130-Multi-Function Photocopy Machines

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General Capital Transfer	43,500	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): City Clerk (City Hall), Fire (Fire HQs), General Services, Equipment Services (COMF); General Services, Water Supply (Water Treatment Plant), Human Services (Commercial St), Multiple departments (2nd floor City Hall), Library, Admin (2nd floor Library) and Police, Administration (CPD HQs, 3rd Floor).
		\$43,500	2016 Subtotal
2017	General Capital Transfer	28,500	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): Finance, Purchasing (COMF), General Services, Wastewater Treatment (Hall St WWTF), Legal (Prosecutor's Office).
		\$28,500	2017 Subtotal
2018	General Capital Transfer	31,500	Replace networked multifunctional copier/printer/scanner for the following City departments (locations): Assessing (City Hall), Fire (Fire HQs), Library (Main Floor), Multiple departments (3rd floor of City Hall).
		\$31,500	2018 Subtotal
2019	General Capital Transfer	33,000	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): General Services Admin (COMF); Community Development Code Enforcement (City Hall Annex); Parks & Recreation (Heights Community Center) and Police, Records (CPD Headquarters).
		\$33,000	2019 Subtotal
2020	General Capital Transfer	20,000	Replace networked multi-functional copier/printer/scanner for the following City department (location): Finance, Collections (City Hall), Finance, OMB (City Hall), Finance, Accounting (City Hall)
		\$20,000	2020 Subtotal
2021	General Capital Transfer	15,000	Replace networked multi-functional copier/printer/scanner for the following City department (location): Multiple departments (2nd floor City Hall)
		\$15,000	2021 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	FINANCE PURCHASING	#130-Multi-Function Photocopy Machines	
2022	General Capital Transfer	24,000	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): Finance, Purchasing (COMF), Legal (Prosecutor's Office).
		\$24,000	2022 Subtotal
2023	General Capital Transfer	60,000	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): Assessing (City Hall), City Clerk (City Hall), Fire (Fire HQs), General Services, Equipment Services (COMF); General Services, Water Supply (Water Treatment Plant), Human Services (Commercial St), Multiple departments (3rd floor City Hall), Library, Admin (2nd floor Library) and Police, Administration (CPD HQs, 3rd Floor).
		\$60,000	2023 Subtotal
2024	General Capital Transfer	40,500	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): General Services Admin (COMF); Community Development Code Enforcement (City Hall Annex), General Services, Wastewater Treatment (Hall St WWTF), Parks & Recreation (Heights Community Center) and Police, Records (CPD Headquarters).
		\$40,500	2024 Subtotal
2025	General Capital Transfer	26,500	Replace networked multi-functional copier/printer/scanner for the following City department (location): Finance, Collections (City Hall); Finance, OMB (City Hall); Finance, Accounting (City Hall) and Library (Main Floor).
		\$26,500	2025 Subtotal
	<b>TOTAL</b>	<b>\$322,500</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #230-Opticom Replacement

I. PROJECT TYPE: Public Safety

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="N/A"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="H"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: This project provides funding for systematic replacement of "Opticom" units throughout the City. Opticom units allow for emergency vehicles to control traffic signals when responding to emergencies. Opticom units are located at 56 intersections, 4 fire stations and 5 Loudon Road Pedestrian Crossings.

SERVICE IMPACT: Routine replacement of units allows for safe and efficient responses to emergency calls by City Fire Department and Police Department.

IMPACT IF NOT FUNDED: Opticom traffic control equipment could fail resulting in motorist confusion and increasing accident potential.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Highway Reserve	10,000	0	15,000	0	15,000	0	15,000	0	15,000	0	70,000
	Total	10,000	0	15,000	0	15,000	0	15,000	0	15,000	0	70,000



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #230-Opticom Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General Highway Reserve	10,000	Opticom replacement (City Wide)
		\$10,000	2016 Subtotal
2018	General Highway Reserve	15,000	Opticom replacement (City Wide)
		\$15,000	2018 Subtotal
2020	General Highway Reserve	15,000	Opticom replacement (City Wide)
		\$15,000	2020 Subtotal
2022	General Highway Reserve	15,000	Opticom Replacement (city wide)
		\$15,000	2022 Subtotal
2024	General Highway Reserve	15,000	Opticom Replacement (city wide)
		\$15,000	2024 Subtotal
	TOTAL	\$70,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #235-Golf Course Grounds Improvements

I. PROJECT TYPE: Golf

II. LOCATION: Beaver Meadow Golf Course

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:

<input type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.

DESCRIPTION: The purpose of this project it is make routine investments to preserve and improve the golf course. Improvements typically consist of greens rehabilitation (begun in FY1999), tee renovations (1999 user survey item), resurfacing of golf cart paths, and irrigation improvements.

SERVICE IMPACT: Routine investments maintain the quality of the course and player satisfaction, thereby preserving market share and financial viability of the course.

IMPACT IF NOT FUNDED: Course conditions and player satisfaction will erode, resulting in loss of market share and potential threat to the long-term viability of the facility.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

15

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Golf	G.O. Bonds	0	160,000	160,000	200,000	0	160,000	100,000	0	110,000	0	890,000
	Total	0	160,000	160,000	200,000	0	160,000	100,000	0	110,000	0	890,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #235-Golf Course Grounds Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Golf G.O. Bonds	150,000	Parking Lot improvements. (Grind and repave).
	Golf G.O. Bonds	10,000	Expand Tee boxes.
		\$160,000	2017 Subtotal
2018	Golf G.O. Bonds	150,000	Phase implementation of irrigation pump station and control system improvements recommended in the 2008 report.
	Golf G.O. Bonds	10,000	Expand Tee boxes.
		\$160,000	2018 Subtotal
2019	Golf G.O. Bonds	150,000	Construct 3 season outdoor recreational pavilion.
	Golf G.O. Bonds	40,000	Improve awnings and design 3 season room.
	Golf G.O. Bonds	10,000	Expand Tee boxes
		\$200,000	2019 Subtotal
2021	Golf G.O. Bonds	100,000	Reconstruct the 4th green.
	Golf G.O. Bonds	50,000	Improvements to the irrigation piping system.
	Golf G.O. Bonds	10,000	Design of improvements for the 4th Green.
		\$160,000	2021 Subtotal
2022	Golf G.O. Bonds	50,000	Improvements to the irrigation piping system.
	Golf G.O. Bonds	50,000	Reconstruction of cart paths.
		\$100,000	2022 Subtotal
2024	Golf G.O. Bonds	100,000	Rebuild the 9th green complex.
	Golf G.O. Bonds	10,000	Design of the 9th Green improvements.
		\$110,000	2024 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	REC-GROUNDS	#235-Golf Course Grounds Improvements	
	TOTAL		\$890,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #244-Water Meter Replacement Program

I. PROJECT TYPE: Water Distribution System

II. LOCATION: City-wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Provides for the replacement of existing automatic meter reading devices and meters.

SERVICE IMPACT: The meters and reading devices provide the only means of accurately measuring a consumers use. The accuracy of these components is critical to insure fair and accurate billing for water and sewer customers.

IMPACT IF NOT FUNDED: Potential increase for inaccurate billing and loss of revenue for water and sewer funds.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	Capital Transfer	185,000	165,000	160,000	125,000	100,000	100,000	125,000	125,000	125,000	150,000	1,360,000
	Total	185,000	165,000	160,000	125,000	100,000	100,000	125,000	125,000	125,000	150,000	1,360,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water Capital Transfer	185,000	Phased installation of meters and reading devices. 800 units.
		<u>\$185,000</u>	2016 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-WATER	#244-Water Meter Replacement Program		
2017	Water Capital Transfer		165,000	Phased installation of meters and reading devices. 600 units.
			\$165,000	2017 Subtotal
2018	Water Capital Transfer		160,000	Phased installation of meters and reading devices. 500 units.
			\$160,000	2018 Subtotal
2019	Water Capital Transfer		125,000	Phased installation of meters and reading devices. 500 units.
			\$125,000	2019 Subtotal
2020	Water Capital Transfer		100,000	Phased installation of meters and reading devices. 500 units.
			\$100,000	2020 Subtotal
2021	Water Capital Transfer		100,000	Phased installation of meters and reading devices. 600 units.
			\$100,000	2021 Subtotal
2022	Water Capital Transfer		125,000	Phased installation of meters and reading devices. 800 units.
			\$125,000	2022 Subtotal
2023	Water Capital Transfer		125,000	Phased installation of meters and reading devices. 600 units.
			\$125,000	2023 Subtotal
2024	Water Capital Transfer		125,000	Phased installation of meters and reading devices. 600 units.
			\$125,000	2024 Subtotal
2025	Water Capital Transfer		150,000	Phased installation of meters and reading devices. 600 units.
			\$150,000	2025 Subtotal
	TOTAL		\$1,360,000	

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**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #245-Emergency Sewage Treatment Plant Repairs

I. PROJECT TYPE: Sewer Treatment

II. LOCATION: Wastewater Treatment Facilities

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  M Safety  H Facility Cond.  N/A Productivity  
 Replace  L Mandates  L Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  H O + M Costs  Council Goals  H Timeliness  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: Provides for unanticipated capital expenditures at the Hall Street and Penacook Wastewater Treatment Plants and eight sewer pump stations city-wide.

SERVICE IMPACT: Allows for expedient major repair/replacement of necessary process equipment. Funding previously carried in operating budget.

IMPACT IF NOT FUNDED: Potential service interruptions, unsafe or hazardous working conditions for employees, increased costs to accommodate system or process deficiencies.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	Capital Outlay	54,500	56,000	58,000	59,500	61,500	63,500	65,500	67,500	69,500	71,500	627,000
	Total	54,500	56,000	58,000	59,500	61,500	63,500	65,500	67,500	69,500	71,500	627,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Sewer Capital Outlay	54,500	Emergency/unanticipated capital equipment replacement.
		<u>\$54,500</u>	2016 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-SEWER	#245-Emergency Sewage Treatment Plant Repairs		
2017	Sewer Capital Outlay	56,000		Emergency/unanticipated capital equipment replacement.
		\$56,000		2017 Subtotal
2018	Sewer Capital Outlay	58,000		Emergency/unanticipated capital equipment replacement.
		\$58,000		2018 Subtotal
2019	Sewer Capital Outlay	59,500		Emergency/unanticipated capital equipment replacement.
		\$59,500		2019 Subtotal
2020	Sewer Capital Outlay	61,500		Emergency/unanticipated capital equipment replacement.
		\$61,500		2020 Subtotal
2021	Sewer Capital Outlay	63,500		Emergency/unanticipated capital equipment replacement.
		\$63,500		2021 Subtotal
2022	Sewer Capital Outlay	65,500		Emergency/unanticipated capital equipment replacement.
		\$65,500		2022 Subtotal
2023	Sewer Capital Outlay	67,500		Emergency/unanticipated capital equipment replacement.
		\$67,500		2023 Subtotal
2024	Sewer Capital Outlay	69,500		Emergency/unanticipated capital equipment replacement.
		\$69,500		2024 Subtotal
2025	Sewer Capital Outlay	71,500		Emergency/unanticipated capital equipment replacement.
		\$71,500		2025 Subtotal
	TOTAL	\$627,000		



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #252-Fire Station Improvements

I. PROJECT TYPE: Public Safety

II. LOCATION: All Stations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	<input type="checkbox"/> Public Facilities
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to provide funding for a variety of repairs and improvements to the four existing fire stations on an annual basis. The 4 stations plus the Headquarters facility total approximately 49,000SF, combined. A summary of each station is below:

The Broadway Station is located at 15 Broadway. The facility was constructed in 1984 and is 5,716 SF set on 0.72 Acres.

The Manor Station is located at 46 Village Street. The facility was constructed in 1974 and is 11,376SF set on 1.28 Acres.

The Heights Station is located at 74 Loudon Rd. The facility was constructed in 1965 and is 5,016SF set on 1.02 Acres.

The Central Station is located at 150 N. State Street. The facility was constructed in 1977 and features 11,260SF.

The Concord Fire Department Headquarters is located at 24 Horseshoe Pond Lane. The facility contains 15,290SF set on 1.52 Acres.

SERVICE IMPACT: Routine repairs and improvements help to prolong the useful life of facilities, as well as provide a safe and pleasant working environmental for employees thereby helping to maintain morale.

IMPACT IF NOT FUNDED: Increased cost for repairs due to deferred maintenance.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #252-Fire Station Improvements

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	275,000	0	0	0	0	0	0	0	0	275,000
	Total	0	275,000	0	0	0	0	0	0	0	0	275,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	175,000	Replacement of Manor Station roof. Temporary repairs completed in 2014.
	General G.O. Bonds	65,000	Comprehensive facilities needs assessment / master plan for the 4 fire stations.
	General G.O. Bonds	35,000	Study of station locations citywide to develop fire station location master plan.
		<u>\$275,000</u>	2017 Subtotal
	TOTAL	<u>\$275,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #254-Water System Emergency/Unanticipated Equipment Replacement

I. PROJECT TYPE: Water Treatment

II. LOCATION: Water Treatment Plant and Pump Stations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Safety  Facility Cond.  Productivity  
 Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: Funding to provide for emergency/unanticipated replacement of capital equipment. Previously distributed in various operating accounts.

SERVICE IMPACT: Provides for timely replacement of capital components failing before their predicted life expectancy.

IMPACT IF NOT FUNDED: Without contingency funding replacements could be delayed with degradation of service.

IV. PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	Capital Outlay	52,000	54,000	56,000	58,000	60,000	62,000	64,000	66,000	68,000	70,000	610,000
	Total	52,000	54,000	56,000	58,000	60,000	62,000	64,000	66,000	68,000	70,000	610,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water Capital Outlay	52,000	Emergency/unanticipated replacement of capital equipment.
		<u>\$52,000</u>	2016 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-WATER	#254-Water System Emergency/Unanticipated Equipment Replacement	
2017	Water Capital Outlay	54,000	Emergency/unanticipated replacement of capital equipment.
		\$54,000	2017 Subtotal
2018	Water Capital Outlay	56,000	Emergency/unanticipated replacement of capital equipment.
		\$56,000	2018 Subtotal
2019	Water Capital Outlay	58,000	Emergency/unanticipated replacement of capital equipment.
		\$58,000	2019 Subtotal
2020	Water Capital Outlay	60,000	Emergency/unanticipated replacement of capital equipment.
		\$60,000	2020 Subtotal
2021	Water Capital Outlay	62,000	Emergency/unanticipated replacement of capital equipment.
		\$62,000	2021 Subtotal
2022	Water Capital Outlay	64,000	Emergency/unanticipated replacement of capital equipment.
		\$64,000	2022 Subtotal
2023	Water Capital Outlay	66,000	Emergency/unanticipated replacement of capital equipment.
		\$66,000	2023 Subtotal
2024	Water Capital Outlay	68,000	Emergency/unanticipated replacement of capital equipment.
		\$68,000	2024 Subtotal
2025	Water Capital Outlay	70,000	Emergency/unanticipated replacement of capital equipment.
		\$70,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$610,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #275-Sewer Pump Station Improvements

I. PROJECT TYPE: Sewer Collection

II. LOCATION: Various Pump Stations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> H	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> L	Mandates	<input type="checkbox"/> M	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> L City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> N/A	O + M Costs	<input type="checkbox"/> N/A	Council Goals	<input type="checkbox"/> M	Timeliness	Sewer
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: Provides for planned replacement, upgrade and refurbishment of aging equipment at sewer pump stations before disruptive failures occur. The City has a total of 8 waste water pump stations, as follows: East Concord, Loudon Road, Chenell Drive, Antrim Avenue, Hannah Dustin, Mountain Green South, Mountain Green North, and the Steeplegate Mall.

SERVICE IMPACT: Critical reliability of pump stations will be maintained and accelerating maintenance costs will be avoided.

IMPACT IF NOT FUNDED: Potential for unanticipated failure of equipment that could disrupt service and result in significant costs to repair or replace.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	G.O. Bonds	0	340,000	0	565,000	257,500	0	90,000	85,000	90,000	70,000	1,497,500
Sewer	Mountain Green Reserve	250,000	0	0	0	0	50,000	300,000	0	0	0	600,000
	Total	250,000	340,000	0	565,000	257,500	50,000	390,000	85,000	90,000	70,000	2,097,500

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-SEWER   #275-Sewer Pump Station Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Sewer Mountain Green Reserve	250,000	Equipment/process improvements - construction of Mountain Green south pump station improvements designed in FY15. 1990 original equipment.
		\$250,000	2016 Subtotal
2017	Sewer G.O. Bonds	290,000	East Concord pump station improvements - standby generator replacement; electrical system upgrade. 1981 original equipment.
	Sewer G.O. Bonds	50,000	Loudon Road pump station emergency generator.
		\$340,000	2017 Subtotal
2019	Sewer G.O. Bonds	490,000	Equipment/process improvements - Hannah Dustin pump station renovations to include installation of above grade pumps, replacement of standby generator, and upgrade of electrical service.
	Sewer G.O. Bonds	75,000	Mall pump station Variable Speed Drives for the pumps.
		\$565,000	2019 Subtotal
2020	Sewer G.O. Bonds	200,000	East Concord pump station improvements - roof replacement.
	Sewer G.O. Bonds	57,500	Building systems improvements - East Concord pump station space heating system upgrade to replace existing steam boiler with condensing hot water boiler. Will include new hot water unit heaters, piping, and auxiliary components.
		\$257,500	2020 Subtotal
2021	Sewer Mountain Green Reserve	50,000	Equipment/process improvements - design engineering services for Mountain Green north pump station and standby generator replacement.
		\$50,000	2021 Subtotal
2022	Sewer Mountain Green Reserve	300,000	Equipment/process improvements - construction of Mountain Green north pump station improvements designed in FY21.
	Sewer G.O. Bonds	50,000	Replace grinders at East Concord and Chenell Drive pump stations.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-SEWER	#275-Sewer Pump Station Improvements		
	Sewer G.O. Bonds	40,000		Equipment/process improvements - install secondary valve vault, new isolation valves, pump guide rails, and discharge piping at Loudon Road pump station.
		\$390,000	2022 Subtotal	
2023	Sewer G.O. Bonds	85,000		Building systems improvements - electrical distribution system upgrades at Chenell Drive, Steeplegate Mall, and Antrim Ave. pump stations.
		\$85,000	2023 Subtotal	
2024	Sewer G.O. Bonds	75,000		Equipment/process improvements - Chenell Drive pump station pump/motor replacement.
	Sewer G.O. Bonds	15,000		Equipment/process improvements - Steeplegate Mall pump station grinder replacement.
		\$90,000	2024 Subtotal	
2025	Sewer G.O. Bonds	70,000		Building systems improvements - lighting system, electrical boxes & raceways, and plumbing system upgrades at East Concord pump station.
		\$70,000	2025 Subtotal	
	<b>TOTAL</b>	<b>\$2,097,500</b>		

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #276-Facility Needs Assessment & Renovation Plan

I. PROJECT TYPE: Public Buildings

II. LOCATION: City-owned properties maintained by Public Properties Division throughout the City

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="N/A"/> Safety	<input type="text" value="N/A"/> Facility Cond.	<input type="text" value="H"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="text" value="L"/> Mandates	<input type="text" value="L"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="text" value="M"/> O + M Costs	<input type="text" value="L"/> Council Goals	<input type="text" value="H"/> Timeliness	Public Facilities
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Engineering and architectural evaluation of Public Properties maintained structures (79 structures value at approximately \$70 million) to definitively quantify their physical condition as well as identify their current and projected restoration/renovation requirements. An integrated and prioritized maintenance plan with associated cost estimates will be developed to ensure effective investments are programmed. Information will also be used to support change of use, retirement and replacement decisions. Management of maintenance plan will require automated work order system for tracking and cost evaluations.

SERVICE IMPACT: Coordinated and prioritized renovation, restoration, and major maintenance will improve effectiveness of funds and labor efforts expenditures. Improved condition and life of facilities should result. Improved response, cost analysis and planning from work order system.

IMPACT IF NOT FUNDED: Maintenance will continue to be focused on infrastructure failures. Preventable deterioration may not be corrected.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2002

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	150,000	0	0	0	0	0	0	0	0	150,000
	Total	0	150,000	0	0	0	0	0	0	0	0	150,000



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:           GS-PUBLIC PROPERTIES   #276-Facility Needs Assessment & Renovation Plan

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	150,000	Contract consultant services for a complete municipal building assessment. DuBois & King report update.
		<u>\$150,000</u>	2017 Subtotal
	TOTAL	<u>\$150,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #283-Traffic Signals and Traffic Operations Improvements

I. PROJECT TYPE: Intersections

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="N/A"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="M"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="L"/> Tax Base Exp.	<input type="checkbox" value="H"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="L"/> O + M Costs	<input type="checkbox" value="H"/> Council Goals	<input type="checkbox" value="H"/> Timeliness	Corridor Improvements
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: In an effort improve vehicle, pedestrian and bicycle safety throughout the City, this project provides for traffic and pedestrian signal improvements resulting from the need for traffic operations improvements, safety enhancements, repairs, as well as addressing changing State and Federal regulatory requirements. Signal locations without pedestrian controls will be prioritized.

SERVICE IMPACT: Improved and enhanced vehicle and pedestrian safety throughout the City. A nominal increase in operating and maintenance costs is expected to accommodate new systems.

IMPACT IF NOT FUNDED: Increased neighborhood concern with vehicular and pedestrian safety City-wide resulting in the need for increased and dedicated police enforcement.

IV PREVIOUS FISCAL YEAR AUTHORIZED: Jan. 2000 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	150,000	75,000	150,000	175,000	0	150,000	0	0	0	700,000
	Total	0	150,000	75,000	150,000	175,000	0	150,000	0	0	0	700,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #283-Traffic Signals and Traffic Operations Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	150,000	<p>N Main/Bouton/I-393 - Replace existing traffic signal equipment with new equipment including controller cabinet, accessible pedestrian push buttons, video vehicle detection, blank-out sign and select wiring replacement.</p> <p>Signal Coordination Improvements - Investigate and implement signal timing and equipment changes to enhance traffic signal coordination along the N. Main/Bouton Street corridor including the signalized intersections at Washington Street, Ferry Street, I-393, N. State Street and Penacook Street, as well as the I-393/Commercial Street intersection.</p> <p>McKee Square signal controller replacement - Replace aging signal controller cabinet at South/Clinton/Broadway intersection. Interim update needed to maintain current signal operation until implementation of McKee Square Improvements Project (CIP31).</p> <p>Ft Eddy/Ft Eddy Plaza - Replace aging underground electrical wiring.</p> <p>N Main/Washington/Ferry - Replace four outdated programmable (and high wattage) signal heads with modern LED signal heads.</p>
		\$150,000	2017 Subtotal
2018	General G.O. Bonds	75,000	<p>Replace pedestrian WALK signal heads with new countdown-type signal heads at all downtown-area intersections not otherwise equipped. Locations include: S Main/Storrs; N State/Capital; N State/School; N State/Warren; N State/Pleasant; S State/West; Pleasant Ext/Storrs; Pleasant/Green; Pleasant/Spring; and Centre/Green.</p> <p>Modify the N State/Centre eastbound left-turn signal head to a flashing yellow arrow operation.</p>
		\$75,000	2018 Subtotal
2019	General G.O. Bonds	150,000	<p>Pleasant Street/State Street - Replace existing traffic signal mast arm supports, install new equipment including pedestrian pushbuttons, and improve sidewalk corners, crosswalk geometry and pavement graphics.</p>

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#283-Traffic Signals and Traffic Operations Improvements	
		\$150,000	2019 Subtotal
2020	General G.O. Bonds	175,000	Pleasant Street/Green Street - Replace existing traffic signal equipment with new equipment including pedestrian pushbuttons, blank out signs, audible pedestrian equipment, video detection and improve sidewalk corners, crosswalk geometry and pavement graphics.
		\$175,000	2020 Subtotal
2022	General G.O. Bonds	150,000	Pleasant Street/Spring Street - Replace existing traffic signal equipment with new equipment including pedestrian push buttons, blank out signs, audible pedestrian equipment, video detection and improve sidewalk corners, crosswalk geometry and pavement graphics.
		\$150,000	2022 Subtotal
	TOTAL	\$700,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #297-Geographic Information Systems (GIS)

I. PROJECT TYPE: Information Technology & Communications

II. LOCATION: City Agencies

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Replace	<input type="checkbox"/> Rebuild	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis	<input type="checkbox"/> Safety	<input type="checkbox"/> Mandates	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Productivity	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> Timeliness	<input type="checkbox"/> City Master Pl.	<input type="checkbox"/> Other
					N/A	N/A	H	N/A	M	L	M	N/A	N/A		

DESCRIPTION: The City's comprehensive Geographic Information System (GIS) Master Plan was completed and approved by ITAC and the City Council in 2006. The Master Plan was intended to define the long-term GIS capital needs.

Internet based GIS software has been operational since 2005 allowing access to the City's GIS network with a web browser. Property information, street, zoning, voting wards, aerial photos, and contours are now available on this public website.

Recent document management innovations added to the City GIS made property development plans and utility records available from interactive web maps. The digital tax map project was introduced to merge three existing versions of the City's tax maps into one single database of improved accuracy and efficiency in use.

SERVICE IMPACT: Investments in GIS technology are essential for the delivery of services to the internal and external customers. The need to share information has become so imperative to the way we do business that without access to the information many of the City's personnel would not be able to perform their job duties. The GIS fits into the category of delivering information (including digital aerial photos) across department boundaries and to the public through the internet.

IMPACT IF NOT FUNDED: The GIS data that the City has heavily invested in will deteriorate to the point where it will become functionally obsolete. The ability to capture and update the changes in the City as new development occurs will diminish. Propagation of GIS databases to the City's other departments will not happen as quickly or efficiently. The GIS will become a glorified drafting department and will not have the ability to accommodate the needs of other departments.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2006

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

5

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #297-Geographic Information Systems (GIS)

**VI. PROJECT FUND SUMMARY**

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	Capital Transfer	0	3,000	3,000	3,000	3,000	3,500	3,500	3,500	3,500	3,500	29,500
General	Capital Transfer	0	188,000	128,000	128,000	63,000	3,500	3,500	3,500	3,500	3,500	524,500
General	Capital Close-out	3,280	0	0	0	0	0	0	0	0	0	3,280
Sewer	Capital Close-out	3,280	0	0	0	0	0	0	0	0	0	3,280
Water	Capital Close-out	3,280	0	0	0	0	0	0	0	0	0	3,280
Sewer	Capital Transfer	0	3,000	3,000	3,000	3,000	3,500	3,500	3,500	3,500	3,500	29,500
Total		9,840	194,000	134,000	134,000	69,000	10,500	10,500	10,500	10,500	10,500	593,340

**VII. PROJECT FUND DETAIL**

Fiscal Year	Fund Type	Amount	Action
2016	General Capital Close-out	3,280	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
	Sewer Capital Close-out	3,280	
	Water Capital Close-out	3,280	
	Total	\$9,840	
2017	General Capital Transfer	125,000	Digital Tax Map Development - Phase 4
	General Capital Transfer	60,000	Digital Tax Map Development - Phase 3B

Develop digital tax map base with accurately defined property boundaries from surveyed plans and deed research. Part of a 6-phase, city-wide effort, the project will resolve discrepancies among the three versions of tax maps maintained by the City and consolidate the maps to a single digital base. Corrected parcels will be identified in preparation to Asset Management and Work Order ERP initiatives. The resulting digital tax maps will be easier to maintain and share with Departments and improve convenience to the public in terms of information research, map production and archiving.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#297-Geographic Information Systems (GIS)	
			resulting digital tax maps will be easier to maintain and share with Departments and improve convenience to the public in terms of information research, map production and archiving.
	Water Capital Transfer	3,000	GIS Layer Development (Water Portion)
	General Capital Transfer	3,000	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
	Sewer Capital Transfer	3,000	GIS Layer Development (Sewer Portion)
		\$194,000	2017 Subtotal
2018	General Capital Transfer	125,000	Digital Tax Map Development - Phase 5
			Develop digital tax map base with accurately defined property boundaries from surveyed plans and deed research. Part of a 6-phase, city-wide effort, the project will resolve discrepancies among the three versions of tax maps maintained by the City and consolidate the maps to a single digital base. Corrected parcels will be identified in preparation to Asset Management and Work Order ERP initiatives. The resulting digital tax maps will be easier to maintain and share with Departments and improve convenience to the public in terms of information research, map production and archiving.
	Sewer Capital Transfer	3,000	GIS Layer Development (Sewer Portion)
	Water Capital Transfer	3,000	GIS Layer Development (Water Portion)
	General Capital Transfer	3,000	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
		\$134,000	2018 Subtotal
2019	General Capital Transfer	125,000	Tax Map Update Phase 6
	Water Capital Transfer	3,000	GIS Layer Development (Water Portion)
	General Capital Transfer	3,000	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
	Sewer Capital Transfer	3,000	GIS Layer Development (Sewer Portion)
		\$134,000	2019 Subtotal
2020	General Capital Transfer	60,000	Survey Grade GPS System - Survey grade Global Positioning System (GPS) receiver and data collector for design data layout, control and mapping.
	Water Capital Transfer	3,000	GIS Layer Development (Water Portion)
	General Capital Transfer	3,000	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#297-Geographic Information Systems (GIS)	
	Sewer Capital Transfer	3,000	GIS Layer Development (Sewer Portion)
		\$69,000	2020 Subtotal
2021	Water Capital Transfer	3,500	GIS Layer Development (Water Portion)
	Sewer Capital Transfer	3,500	GIS Layer Development (Sewer Portion)
	General Capital Transfer	3,500	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
		\$10,500	2021 Subtotal
2022	General Capital Transfer	3,500	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
	Sewer Capital Transfer	3,500	GIS Layer Development (Sewer Portion)
	Water Capital Transfer	3,500	GIS Layer Development (Water Portion)
		\$10,500	2022 Subtotal
2023	General Capital Transfer	3,500	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
	Sewer Capital Transfer	3,500	GIS Layer Development (Sewer Portion)
	Water Capital Transfer	3,500	GIS Layer Development (Water Portion)
		\$10,500	2023 Subtotal
2024	General Capital Transfer	3,500	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
	Sewer Capital Transfer	3,500	GIS Layer Development (Sewer Portion)
	Water Capital Transfer	3,500	GIS Layer Development (Water Portion)
		\$10,500	2024 Subtotal
2025	Water Capital Transfer	3,500	GIS Layer Development (Water Portion)
	Sewer Capital Transfer	3,500	GIS Layer Development (Sewer Portion)
	General Capital Transfer	3,500	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
		\$10,500	2025 Subtotal
	<b>TOTAL</b>	<b>\$593,340</b>	

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**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #297-Geographic Information Systems (GIS)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: INFORMATION TECHNOLOGY #302-Enterprise Wide Information Systems Applications

I. PROJECT TYPE: Information Technology & Communications

II. LOCATION: All City Departments and Agencies

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox" value="H"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox" value="H"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="H"/> O + M Costs	<input type="checkbox" value="M"/> Council Goals	<input type="checkbox" value="H"/> Timeliness	MIS
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The increased use of technology brings with it both challenges and opportunities. Opportunity is created to serve customers and citizens better and more effectively at less costs. Challenges are also created. Customers demand more, better and faster service and information from the City. New citizens, taught and trained on new equipment also seek the means of doing business in the manner they have come accustomed. Old business methods and practices must be reexamined and altered if we are to take full advantage of the possibilities and respond to changing needs. Employees skills need to be altered and upgraded if they are to be ready and involved in the processes that will emerge.

The area of Web Development in particular holds the highest potential for change and improvement, with an improvement in Social Networking aspects to improve citizen data access.

It is estimated that between all the users, the net cost to the General Fund for these applications will be about 70% of the total cost of the project. Other City special revenue funds and enterprise funds will be responsible for about 30% of the cost.

These applications will be comprised of several components. Specialized computer hardware and software as well as enhanced servers will be needed to store, convert, retrieve and produce data and images. Analysis, comparison and documentation of existing versus appropriate business practices will have to be performed, and implemented. Employees will need to be trained and transitioned into these new methods.

Projected costs include all these expenses for each application.

SERVICE IMPACT: More efficient service delivery will be enabled as new and old data is more readily available, easily accessed, retrieved and stored, made available to anyone at any time they want it. Data will be shared organization-wide eliminating the parochial and limiting aspects of current departmentalized data ownership. Processing financial transactions will be more secure, less costly, faster and flexible to meet the many new and divergent needs of more sophisticated customers as well as the traditional visitor.

The City will be attractive to the people and business who bring the financial resources to provide for both a socially and financially well balanced community.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: INFORMATION TECHNOLOGY #302-Enterprise Wide Information Systems Applications

IMPACT IF NOT FUNDED: The potential of the investments made to date in technologically advanced systems will be underutilized. Continued productivity improvements will be unavailable to reduce costs of operation. Costs of maintaining several outdated and duplicative payroll systems will become increasingly burdensome. The potential for data mismanagement and lost records will persist. Privacy could become compromised thereby presenting liabilities.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	G.O. Bonds	36,500	0	0	0	0	0	0	0	0	0	36,500
Water	G.O. Bonds	36,500	0	0	0	0	0	0	0	0	0	36,500
Golf	G.O. Bonds	3,000	0	0	0	0	0	0	0	0	0	3,000
General	G.O. Bonds	103,000	0	800,000	0	0	0	0	0	0	0	903,000
Parking	G.O. Bonds	3,000	0	0	0	0	0	0	0	0	0	3,000
Arena	G.O. Bonds	3,000	0	0	0	0	0	0	0	0	0	3,000
	Total	185,000	0	800,000	0	0	0	0	0	0	0	985,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	103,000	Funds for payroll time keeping software. Software and implementation (\$160,000). Hardware (\$25,000).
	Sewer G.O. Bonds	36,500	Sewer Fund share.
	Parking G.O. Bonds	3,000	Parking Fund share.
	Golf G.O. Bonds	3,000	Golf Fund share.
	Arena G.O. Bonds	3,000	Arena Fund share.
	Water G.O. Bonds	36,500	Water Fund share.
		\$185,000	2016 Subtotal
2018	General G.O. Bonds	800,000	Replacement of the New World Systems "Logos" Program.
		\$800,000	2018 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	INFORMATION TECHNOLOGY	#302-Enterprise Wide Information Systems Applications
	TOTAL	\$985,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #305-Fire Department Communications Equipment

I. PROJECT TYPE: Public Safety

II. LOCATION: All Stations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  M Safety  L Facility Cond.  H Productivity  
 Replace  L Mandates  H Service Def.  N/A Tax Base Exp.  L City Master Pl.  
 Rebuild  N/A O + M Costs  L Council Goals  H Timeliness Other  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: Systematic and planned replacement of critical emergency communications equipment.

SERVICE IMPACT: Improved reliability on the emergency scene which improves safety and maintains operational efficiency.

IMPACT IF NOT FUNDED: Less reliable communication equipment results in increased threat to health and safety of City personnel as well as the general public.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 7

Expected Bond Term (in Years) 5

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	190,000	190,000	0	0	0	0	0	0	400,000	0	780,000
	Total	190,000	190,000	0	0	0	0	0	0	400,000	0	780,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	190,000	Phase 1: Systematic replacement of portable radios (57 units)
		\$190,000	2016 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	FIRE #305-Fire Department Communications Equipment		
2017	General G.O. Bonds	190,000	Phase 2: Systematic replacement of portable radios (58 units).
		<u>\$190,000</u>	2017 Subtotal
2024	General G.O. Bonds	400,000	Radio Replacement (115 units).
		<u>\$400,000</u>	2024 Subtotal
	TOTAL	<u>\$780,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #321-Water System Master Plan & Implementation

I. PROJECT TYPE: Water Treatment

II. LOCATION: General Services

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> L Safety	<input type="checkbox"/> N/A Facility Cond.	<input type="checkbox"/> N/A Productivity
	<input type="checkbox"/> Replace	<input type="checkbox"/> M Mandates	<input type="checkbox"/> L Service Def.	<input type="checkbox"/> N/A Tax Base Exp.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> N/A O + M Costs	<input type="checkbox"/> N/A Council Goals	<input type="checkbox"/> M Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

DESCRIPTION: The Water Master Plan was completed in 3 separate phases during 2006-2010. Part one looked at alternative water sources recommending a source of supply in the Merrimack River. Part two evaluated the existing water treatment facility and looked at future treatment options recommending the refurbishment of the existing treatment facility on Hutchinson Street. Part three reviewed the City's anticipated future distribution and storage needs and made recommendations associated therewith.

The purpose of this projects is to undertake a comprehensive update of the 2010 Water Master Plan.

SERVICE IMPACT: Periodic review and updating of the water master plan helps allows the City to adequately plan for future needs of the community, as well as prioritize investments in the water system.

IMPACT IF NOT FUNDED: Inadequate planning for the City's future water needs could result in water shortages, as well as a variety of negative economic development and fiscal impacts to the community.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 30

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	30,000	0	30,000	0	150,000	0	90,000	0	0	0	300,000
	Total	30,000	0	30,000	0	150,000	0	90,000	0	0	0	300,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-WATER   #321-Water System Master Plan & Implementation

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water G.O. Bonds	30,000	Update the supply study portion of Phase I of the 2006 Master Plan.
		\$30,000	2016 Subtotal
2018	Water G.O. Bonds	30,000	Update the water model developed in Phase III of the 2008 Water Master Plan.
		\$30,000	2018 Subtotal
2020	Water G.O. Bonds	150,000	Update the Master Plan completed in 2010.
		\$150,000	2020 Subtotal
2022	Water G.O. Bonds	90,000	Conduct a geophysical site investigation as recommended by the 2006 Water Master Plan to further explore potential feasibility of utilizing the Merrimack River in west as a new supply to support the City's long-term needs for potable water.
		\$90,000	2022 Subtotal
	<b>TOTAL</b>	<b>\$300,000</b>	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #323-Combined Operations & Maintenance Facility (COMF) Improvements

I. PROJECT TYPE: Public Buildings

II. LOCATION: COMF - 311 North State Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="L"/> Facility Cond.	<input type="checkbox" value="M"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="L"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Public Facilities
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: This provides for the capital improvements for the Combined Operations and Maintenance Facility (COMF) that houses General Services, as well as the Concord School District Bus Maintenance operations.

SERVICE IMPACT: Improvements necessary for existing operations, such as safety, upgrade/replacement, expansion due to population growth.

IMPACT IF NOT FUNDED: The facility will deteriorate and its useful life will be diminished.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15 Expected Bond Term (in Years) 20

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	255,000	50,000	80,000	90,000	190,000	210,000	50,000	50,000	30,000	100,000	1,105,000
Sewer	G.O. Bonds	102,000	25,000	40,000	35,000	70,000	70,000	25,000	25,000	15,000	50,000	457,000
Water	G.O. Bonds	102,000	25,000	40,000	35,000	70,000	70,000	25,000	25,000	15,000	50,000	457,000
	Total	459,000	100,000	160,000	160,000	330,000	350,000	100,000	100,000	60,000	200,000	2,019,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:               GS-PUBLIC PROPERTIES   #323-Combined Operations & Maintenance Facility (COMF) Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	100,000	Elastomeric Roof Coating for the standing seam roofs.
	General G.O. Bonds	80,000	Snow guards at vehicle storage
	General G.O. Bonds	75,000	Temper outside air for AC-4 and MAU-6, upgrades to MAU 1 & 2 and EMS system improvements
	Sewer G.O. Bonds	50,000	Elastomeric Roof Coating for the standing seam roofs.
	Water G.O. Bonds	50,000	Elastomeric Roof Coating for the standing seam roofs.
	Sewer G.O. Bonds	40,000	Snow guards at vehicle storage
	Water G.O. Bonds	40,000	Snow guards at vehicle storage
	Sewer G.O. Bonds	12,000	Temper outside air for AC-4 and MAU-6, upgrades to MAU 1 & 2 and EMS system improvements
	Water G.O. Bonds	12,000	Temper outside air for AC-4 and MAU-6, upgrades to MAU 1 & 2 and EMS system improvements
		\$459,000	2016 Subtotal
2017	General G.O. Bonds	50,000	Replace Public Properties facility roof at 115 Hall Street. ORIGINAL ROOF (1981)
	Water G.O. Bonds	25,000	Replace Public Properties facility roof at 115 Hall Street. ORIGINAL ROOF (1981)
	Sewer G.O. Bonds	25,000	Replace Public Properties facility roof at 115 Hall Street. ORIGINAL ROOF (1981)
		\$100,000	2017 Subtotal
2018	General G.O. Bonds	30,000	HVAC and Energy Management System upgrades. Original 2007 work performed by Siemens Company. Maintain energy efficiency. General Fund portion
	General G.O. Bonds	30,000	Crack seal and seal coat existing pavement. Pave gravel areas used for vehicle storage. General Fund share.
	General G.O. Bonds	20,000	Repaint walls and replace carpet in all principal areas of the facility. General Fund portion
	Water G.O. Bonds	15,000	HVAC and Energy Management System upgrades. Original 2007 work performed by Siemens Company. Maintain energy efficiency. Water Fund portion
	Sewer G.O. Bonds	15,000	HVAC and Energy Management System upgrades. Original 2007 work performed by Siemens Company. Maintain energy efficiency. Sewer Fund portion.
	Sewer G.O. Bonds	15,000	Crack seal and seal coat existing pavement. Pave gravel areas used for vehicle storage. General Fund share. Sewer Fund share.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES	#323-Combined Operations & Maintenance Facility (COMF) Improvements
	Water G.O. Bonds	15,000 Crack seal and seal coat existing pavement. Pave gravel areas used for vehicle storage. General Fund share. Water Fund share.
	Water G.O. Bonds	10,000 Repaint walls and replace carpet in all principal areas of the facility. Water Fund portion
	Sewer G.O. Bonds	10,000 Repaint walls and replace carpet in all principal areas of the facility. Sewer Fund portion
		\$160,000            2018 Subtotal
2019	General G.O. Bonds	30,000 Refurbish the drainage grates in vehicle storage building.
	Water G.O. Bonds	20,000 Phased plan to replace one-third of the overhead doors. (20 of the 57)
	Sewer G.O. Bonds	20,000 Phased plan to replace one-third of the overhead doors. (20 of the 57)
	Water G.O. Bonds	15,000 Refurbish floor drainage grates in vehicle storage building.
	Sewer G.O. Bonds	15,000 Refurbish floor drainage grates in vehicle storage building.
	General G.O. Bonds	40,000 Phased plan to replace one-third of the overhead doors. (20 of the 57)
	General G.O. Bonds	20,000 Replace furniture in common areas. Original equipment provided in 1992 when facility was first occupied.
		\$160,000            2019 Subtotal
2020	General G.O. Bonds	150,000 Replace underground fuel tanks
	Water G.O. Bonds	50,000 Replace underground fuel tanks
	Sewer G.O. Bonds	50,000 Replace underground fuel tanks
	Water G.O. Bonds	20,000 Phased plan to replace one-third of the overhead doors. (20 of the 57)
	Sewer G.O. Bonds	20,000 Phased plan to replace one-third of the overhead doors. (20 of the 57)
	General G.O. Bonds	40,000 Phased plan to replace one-third of the overhead doors. (20 of the 57)
		\$330,000            2020 Subtotal
2021	General G.O. Bonds	150,000 Replace underground fuel tanks
	Water G.O. Bonds	50,000 Replace underground fuel tanks
	Sewer G.O. Bonds	50,000 Replace underground fuel tanks
	General G.O. Bonds	40,000 Phased plan to replace one-third of the overhead doors. (17 of the 57)
	General G.O. Bonds	20,000 Replace original ceiling tiles throughout the facility. (30 years old)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-PUBLIC PROPERTIES	#323-Combined Operations & Maintenance Facility (COMF) Improvements		
	Water G.O. Bonds	20,000		Phased plan to replace one-third of the overhead doors. (17 of the 57)
	Sewer G.O. Bonds	20,000		Phased plan to replace one-third of the overhead doors. (17 of the 57)
		\$350,000	2021 Subtotal	
2022	General G.O. Bonds	50,000		Replace rubber tile in main hallway areas. 1990 original material. General Fund portion.
	Water G.O. Bonds	25,000		Replace rubber tile in main hallway areas. 1990 original material. Water Fund portion
	Sewer G.O. Bonds	25,000		Replace rubber tile in main hallway areas. 1990 original material. Sewer Fund Portion.
		\$100,000	2022 Subtotal	
2023	General G.O. Bonds	50,000		Pavement rehabilitation
	Water G.O. Bonds	25,000		Pavement rehabilitation
	Sewer G.O. Bonds	25,000		Pavement rehabilitation
		\$100,000	2023 Subtotal	
2024	General G.O. Bonds	30,000		Crack seal and seal coat existing pavement. General Fund share.
	Water G.O. Bonds	15,000		Crack seal and seal coat existing pavement. Water Fund share.
	Sewer G.O. Bonds	15,000		Crack seal and seal coat existing pavement. Sewer Fund share.
		\$60,000	2024 Subtotal	
2025	General G.O. Bonds	100,000		Refurbish HVAC system and controls
	Sewer G.O. Bonds	50,000		Refurbish HVAC system and controls. Sewer Fund share.
	Water G.O. Bonds	50,000		Refurbish HVAC system and controls. Water Fund share.
		\$200,000	2025 Subtotal	
	TOTAL	\$2,019,000		

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #335-Thermal Imaging Cameras

I. PROJECT TYPE: Public Safety

II. LOCATION: All Stations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="N/A"/> Facility Cond.	<input type="checkbox" value="H"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="H"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="H"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Systematic replacement of thermal imaging cameras for front line fire apparatus.

SERVICE IMPACT: Thermal imaging cameras are an important tool in fire fighting. They can assist in locating people and animals in burning buildings, as well as help locate hidden fire smoldering within building cavities, thereby helping to expedite emergency response efforts, as well as reduce un-necessary risk to personnel and damage to private property.

IMPACT IF NOT FUNDED: Increased life safety risk and inability to overhaul efficiently.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	0	0	30,000	30,000	0	0	0	0	0	60,000
	Total	0	0	0	30,000	30,000	0	0	0	0	0	60,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: FIRE #335-Thermal Imaging Cameras

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General Capital Transfer	30,000	Phase 1 of 2. Systematic replacement of thermal imaging cameras. Anticipated to replace cameras purchased from FY2012.
		<hr/>	
		\$30,000	2019 Subtotal
2020	General Capital Transfer	30,000	Phase 2 of 2. Systematic replacement of thermal imaging cameras. Anticipated to replace cameras purchased in FY2014
		<hr/>	
		\$30,000	2020 Subtotal
		<hr/>	
	TOTAL	\$60,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #345-Water Supply Well Field Maintenance

I. PROJECT TYPE: Water Treatment

II. LOCATION: Sanders Station (Pump Station 2), N. Pembroke Rd.

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="L"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="H"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="M"/> Tax Base Exp.	<input type="checkbox" value="L"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="M"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Maintaining an adequate water supply is important for the city. The purpose of this project is to properly maintain the City's well fields in Pembroke through regular investments thereby ensuring the facility will be available to produce approximately 1 million gallons per day on an as-needed basis. This project will comply with and help implement the recommendations of the 2006-2010 Water Master Plan

SERVICE IMPACT: Helps to maintain a diverse mix of supply sources for the City's water system and reduces dependence on Penacook Lake and the Contoocook River.

IMPACT IF NOT FUNDED: Drought conditions and a regulated restriction of Contoocook River usage may require that water restrictions be implemented throughout the City.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	0	0	0	0	0	0	150,000	1,500,000	0	0	1,650,000
	Total	0	0	0	0	0	0	150,000	1,500,000	0	0	1,650,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:           GS-WATER   #345-Water Supply Well Field Maintenance

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	Water G.O. Bonds	150,000	Design of a new pump house and appurtenances. Wright Pierce Engineers assessment and recommendations.
		<hr/>	
		\$150,000	2022 Subtotal
2023	Water G.O. Bonds	1,500,000	Place holder for future construction of new pump house at Station #2. Design effort will refine a replacement cost.
		<hr/>	
		\$1,500,000	2023 Subtotal
		<hr/>	
	TOTAL	\$1,650,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #347-Water Storage Tank Repairs

I. PROJECT TYPE: Water Treatment

II. LOCATION: Five sites around the City

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="L"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="text" value="N/A"/> Productivity	
	<input type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="H"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="text" value="N/A"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="H"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to establish a schedule of capital investments for the City's water tanks and related systems.

Routine investments will prolong the life of these facilities. Cleaning, crack sealing and re-application of the cementitious coatings to the exterior of the tanks will prevent corrosion and extend useful life each structure. Altitude valves and underground valve chambers will be repaired and rehabilitated while the tanks are out of service.

SERVICE IMPACT: Distribution tanks provide a readily available supply of water to meet the needs of the customers, but more importantly to provide needed fire protection volumes to the neighborhoods. Each tank represents a significant investment by the City and needs to be kept in a highly serviceable condition.

IMPACT IF NOT FUNDED: Lack of routine investments will decrease useful life of these facilities. In the extreme, lack of maintenance could cause tank failures thereby causing disruptions in water service (both domestic and fire protection).

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	30,000	0	70,000	0	0	50,000	50,000	50,000	100,000	4,000,000	4,350,000
	Total	30,000	0	70,000	0	0	50,000	50,000	50,000	100,000	4,000,000	4,350,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #347-Water Storage Tank Repairs

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water G.O. Bonds	30,000	Primrose Tank: Cleaning, crack sealing and re-application of cementitious coating and reconditioning/replacing altitudes valve and appurtenant controls.
		<u>\$30,000</u>	2016 Subtotal
2018	Water G.O. Bonds	70,000	Auburn Road Tank and Snow Pond Road Tank solar power improvements.
		<u>\$70,000</u>	2018 Subtotal
2021	Water G.O. Bonds	50,000	Cleaning, crack sealing and re-application of cementitious coating and reconditioning/replacing altitudes valve and appurtenant controls.
		<u>\$50,000</u>	2021 Subtotal
2022	Water G.O. Bonds	50,000	Cleaning, crack sealing and re-application of cementitious coating and reconditioning/replacing altitudes valve and appurtenant controls.
		<u>\$50,000</u>	2022 Subtotal
2023	Water G.O. Bonds	50,000	Cleaning, crack sealing and re-application of cementitious coating and reconditioning/replacing altitudes valve and appurtenant controls.
		<u>\$50,000</u>	2023 Subtotal
2024	Water G.O. Bonds	100,000	Design development of a new water storage tank to serve the Heights / Manchester Street Corridor. Recommendation of the Phase III Water Master Plan.
		<u>\$100,000</u>	2024 Subtotal
2025	Water G.O. Bonds	4,000,000	Place holder for construction of a new water tank to serve the Heights / Manchester Street Corridor. Costs will be confirmed by the design development in 2024.
		<u>\$4,000,000</u>	2025 Subtotal
	TOTAL	<u>\$4,350,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #352-Open Space Protection

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Facility Cond.  Productivity  
 Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 O + M Costs  Council Goals  Timeliness  Other

DESCRIPTION: The purpose of this project is to provide funding for the acquisitions of open space and conservation easements in accordance with the priorities of the Open Space Chapter of the 2030 Master Plan. Sources of funding include the proceeds from the Land Use Change Tax as deposited in the Conservation Fund, as well as the proceeds of a previously approved bond. The cost of appraisals of land for these purposes, as well as title work and closing expenses is included.

SERVICE IMPACT: Preserves the natural resources and environment of the City as well as the quality of life for residents. Provides economic benefits from increased land values adjacent to open space and the avoidance of costs to service development that would otherwise occur.

IMPACT IF NOT FUNDED: Critical parcels of open land will be developed and the benefits of the open space will be irrevocably lost.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 99

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	Trust	500,000*	500,000	0	0	0	0	0	0	0	0	1,000,000
	Total	500,000	500,000	0	0	0	0	0	0	0	0	1,000,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-COMMUNITY PLANNING #352-Open Space Protection

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Other Trust	500,000	Placeholder: Purchase of parcels or conservation easements on parcels. The funding will be from Conservation Fund and will be matched by other grants such as LCHIP to the greatest extent possible. Up to \$20,000 will be made available for appraisals, title work, and expenses in conjunction with land and easement acquisitions.
		\$500,000	2016 Subtotal
2017	Other Trust	500,000	Placeholder: Purchase of parcels or conservation easements on parcels. The funding will be from Conservation Fund and will be matched by other grants such as LCHIP to the greatest extent possible. Up to \$20,000 will be made available for appraisals, title work, and expenses in conjunction with land and easement acquisitions.
		\$500,000	2017 Subtotal
	<b>TOTAL</b>	<b>\$1,000,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #358-Garrison Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Hutchins Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	<input type="text" value="L"/> Safety	<input type="text" value="M"/> Facility Cond.	<input type="text" value="N/A"/> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<input type="text" value="L"/> Mandates	<input type="text" value="M"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="M"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="text" value="L"/> O + M Costs	<input type="text" value="M"/> Council Goals	<input type="text" value="N/A"/> Timeliness	Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: In 2005, the City completed a comprehensive Master Plan for Garrison Park. The purpose of the plan was to identify and prioritize short and long-term improvements for the facility.

SERVICE IMPACT: Proposed improvements will promote the use and enjoyment of the City's parks while ensuring efficiency in expenditure and the greatest return on investment.

IMPACT IF NOT FUNDED: Existing facilities will continue to deteriorate, and facility expansion potential will not be realized. Any City funding will not be utilized in a planned and coordinated manner resulting in waste and inefficiency. There will be a loss in utilization and enjoyment of this facility by the citizenry.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	175,000	65,000	0	0	0	240,000
General	Impact Fees Rec Dist 2	0	0	0	0	0	0	0	100,000	0	0	100,000
	Total	0	0	0	0	0	175,000	65,000	100,000	0	0	340,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:            REC-GROUNDS    #358-Garrison Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2021	General G.O. Bonds	100,000	Construction of accessible walkways and bridges within the southerly areas of the park as identified in the Park Improvement Plan for Garrison Park.
	General G.O. Bonds	75,000	Replacement of playground equipment.
		\$175,000	2021 Subtotal
2022	General G.O. Bonds	65,000	Basketball and tennis courts - renovation or reconstruction.
		\$65,000	2022 Subtotal
2023	General Impact Fees Rec Dist 2	100,000	Design and construction of parking lot and access improvements as identified in the Garrison Park Improvement Plan.
		\$100,000	2023 Subtotal
	<b>TOTAL</b>	<b>\$340,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #359-Merrill Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Eastman Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  L Safety  M Facility Cond.  N/A Productivity  
 Replace  L Mandates  M Service Def.  N/A Tax Base Exp.  M City Master Pl.  
 Rebuild  L O + M Costs  M Council Goals  N/A Timeliness Parks  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: In 2005, the City completed a comprehensive Master Plan for Merrill Park. The purpose of the plan was to identify and prioritize short and long-term improvements for the facility.

SERVICE IMPACT: Proposed improvements will promote the use and enjoyment of the City's parks while ensuring efficiency in expenditure and the greatest return on investment.

IMPACT IF NOT FUNDED: Existing facilities will continue to deteriorate, and facility expansion potential will not be realized. Any City funds will not be done in a planned and coordinated manner resulting in waste and inefficiency. There will be a loss in utilization and enjoyment of this facility by the citizenry.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	30,000	0	0	60,000	0	0	0	0	120,000	210,000
General	Capital Transfer	0	15,000	0	0	0	0	0	0	0	0	15,000
	Total	0	45,000	0	0	60,000	0	0	0	0	120,000	225,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:            REC-GROUNDS    #359-Merrill Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	30,000	Upgrade playground equipment to achieve handicap accessibility.
	General Capital Transfer	15,000	Softball field back stop replacement.
		\$45,000	2017 Subtotal
2020	General G.O. Bonds	60,000	Rehabilitate and stripe parking lot.
		\$60,000	2020 Subtotal
2025	General G.O. Bonds	120,000	Construct pedestrian access bridge over Mill Brook per Merrill Park Master Plan. (CDD-Engineering)
		\$120,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$225,000</b>	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #360-Kimball Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: North State Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
	<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.  
 Parks

DESCRIPTION: Kimball Park was the focus of an intensive planning and design effort undertaken with Groundwork Concord, Inc. (now defunct) to guide future maintenance and capital investment in that park. The planning process resulted in the Kimball Park Master Plan for the upgrade and improvement of the park that prioritizes the City's expenditures and encourage volunteerism and donations to benefit the park.

SERVICE IMPACT: The improvement plans will promote the use and enjoyment of the City's parks while ensuring efficiency in expenditure and the greatest return on investment.

IMPACT IF NOT FUNDED: Existing facilities will continue to deteriorate, and facility expansion potential will not be realized. Any City funds will not be done in a planned and coordinated manner resulting in waste and inefficiency. There will be a loss in utilization and enjoyment of this facility by the citizenry.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	125,000	0	0	0	0	125,000
	Total	0	0	0	0	0	125,000	0	0	0	0	125,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:            REC-GROUNDS    #360-Kimball Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2021	General G.O. Bonds	125,000	Playground equipment replacement.
		<u>\$125,000</u>	2021 Subtotal
	TOTAL	<u>\$125,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #361-Hooksett Turnpike Bridge Replacement

I. PROJECT TYPE: Bridges

II. LOCATION: Hooksett Turnpike Bridge over Bela Brook

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  M Safety  M Facility Cond.  N/A Productivity  
 Replace  H Mandates  M Service Def.  N/A Tax Base Exp.  M City Master Pl.  
 Rebuild  N/A O + M Costs  M Council Goals  M Timeliness  Other  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this project is to replace the existing substandard bridge over Bela Brook with a new bridge which complies with contemporary design standards.

This project will be funded through the State Municipal Bridge Aid program (80% state, 20% city).

SERVICE IMPACT: Continue use for public travel.

IMPACT IF NOT FUNDED: If not funded, the bridge could become subject to load limits. In the extreme, the bridge may have to be closed due to deficiencies.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2010

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	149,800	0	0	0	0	0	0	0	149,800
Other	State	0	0	599,200	0	0	0	0	0	0	0	599,200
	Total	0	0	749,000	0	0	0	0	0	0	0	749,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #361-Hooksett Turnpike Bridge Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Other State	599,200	Design and construction of bridge replacement. State share of project is 80%.
	General G.O. Bonds	149,800	Design and construction of bridge replacement. City share of project is 20%.
		\$749,000	2018 Subtotal
	TOTAL	\$749,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #368-Police Department Communications Equipment

I. PROJECT TYPE: Public Safety

II. LOCATION: Police

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="L"/> Safety	<input type="text" value="N/A"/> Facility Cond.	<input type="text" value="L"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="L"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="H"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="M"/> Timeliness	Long-Range Planning
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to make periodic investments to upgrade or replace communications equipment for the Police Department, including portable radios, as well as equipment within vehicles and the dispatch center.

In 2002, the Police Department completed the replacement of its radio system to a Motorola Astro Simulcast System. As part of this upgrade portable and mobile radios that were 10 to 15 years old were replaced.

Radio system upgrades shall include new console and point to point microwave capabilities.

SERVICE IMPACT: Portables and mobile radios should be replaced approximately every ten years in order to ensure reliability of equipment and to minimize risk of unforeseen communications problems, which could impact the department's ability to effectively respond to calls for assistance.

IMPACT IF NOT FUNDED: Safety and security of police officers and citizens could be compromised by inconsistent radio communications.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	290,000	260,000	0	0	0	0	0	0	0	550,000
	Total	0	290,000	260,000	0	0	0	0	0	0	0	550,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: POLICE - OPERATIONS #368-Police Department Communications Equipment

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	290,000	Console and Dispatch Furniture upgrades. 3 position console with specified channels, I/O's and furniture replacement.
		<hr/>	
		\$290,000	2017 Subtotal
2018	General G.O. Bonds	260,000	Point to Point microwave: Police Headquarters to Plausawa and Plausawa to Penacook. VHF Simulcast Voting System.
		<hr/>	
		\$260,000	2018 Subtotal
		<hr/>	
	TOTAL	\$550,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #370-Police Department Ballistic Vest Replacement Program

I. PROJECT TYPE: Public Safety

II. LOCATION: Police

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  L Safety  N/A Facility Cond.  N/A Productivity  
 Replace  N/A Mandates  L Service Def.  N/A Tax Base Exp.  N/A City Master Pl.  
 Rebuild  H O + M Costs  N/A Council Goals  M Timeliness Long-Range Planning  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: This project provides for the systematic replacement of Ballistic Vests (bullet proof vests) for the Police Department in accordance with industry standards.

SERVICE IMPACT: Ballistic Vests are on a 5 year replacement program per service standards. It is important to replace vests on a regular basis in order to keep up with latest ballistic technology. Ballistic Vests were last replaced in December 2011. This batch will need to be replaced on or about December 2016.

IMPACT IF NOT FUNDED: Safety for Police Officers could be compromised.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

5

Expected Bond Term (in Years) 5

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	70,000	0	0	0	0	75,000	0	0	0	0	145,000
	Total	70,000	0	0	0	0	75,000	0	0	0	0	145,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	70,000	Replace vests purchased in FY2011.
		\$70,000	2016 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	POLICE - OPERATIONS	#370-Police Department Ballistic Vest Replacement Program	
2021	General G.O. Bonds	75,000	Replace vests purchased in FY2016.
		<u>\$75,000</u>	2021 Subtotal
	TOTAL	<u>\$145,000</u>	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: GS-WATER #372-Water System Pump Station Improvements

I. PROJECT TYPE: Water Treatment

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="L"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="text" value="M"/> Productivity		
	<input checked="" type="checkbox"/> Replace	<input type="text" value="L"/> Mandates	<input type="checkbox"/> Service Def.	<input type="text" value="H"/> Tax Base Exp.	<input type="text" value="L"/> City Master Pl.	
	<input checked="" type="checkbox"/> Rebuild	<input type="text" value="M"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="M"/> Timeliness	Water	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis					

DESCRIPTION: This project provides for the planned improvements to the 3 pump stations which are part of the potable water distribution system, as follows:

Pump Station #3: Penacook Street  
Pump Station #5: Broad Cove Road (at the Contoocook River)  
Pump Station #6: Mountain Road

The other 2 water pump stations are part of the Water Plant and Pembroke well fields, and therefore are addressed separately by other capital improvement projects.

Phase II of the 2006 Water Master Plan Phase describes the need to boost the pressure and availability in an area north east of Portsmouth Street requiring an additional elevated pressure zone.

SERVICE IMPACT: Planned upgrades to existing stations ensures over all reliability of the water system.

IMPACT IF NOT FUNDED: The ability to effectively and efficiently distribute water to users will be compromised and could result in service disruptions. Service disruptions would not only cause inconvenience but could also result in life / safety issues due to potential inability to supply public and private fire suppression systems.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-WATER   #372-Water System Pump Station Improvements

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	200,000	50,000	0	0	350,000	0	0	0	0	1,200,000	1,800,000
	Total	200,000	50,000	0	0	350,000	0	0	0	0	1,200,000	1,800,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water G.O. Bonds	200,000	Penacook Street pump station motor and pump refurbishment, as well as motor control center and variable speed drive upgrades. Energy efficient design implementation.
		\$200,000	2016 Subtotal
2017	Water G.O. Bonds	50,000	Pump Station # 6 Mountain Road interim motor control center and pump upgrades.
		\$50,000	2017 Subtotal
2020	Water G.O. Bonds	350,000	Rebuild Mountain Road pump station. Structural, architectural, and site improvements.
		\$350,000	2020 Subtotal
2025	Water G.O. Bonds	1,200,000	Phase III of the Master Plan recommends a boosted pressure zone north east of Portsmouth Street.
		\$1,200,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$1,800,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #375-Fire Department Boats

I. PROJECT TYPE: Public Safety

II. LOCATION: City wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED  New  Safety  Facility Cond.  Productivity  
 SERVED:  Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: Systematic replacement of rescue boats located at all Fire Stations throughout the City. As of April 2015 the Department had 3 motorized watercraft.

SERVICE IMPACT: Aging water craft is less reliable for water rescues and requires increased maintenance costs.

IMPACT IF NOT FUNDED: Increased threat to health and safety for rescue personnel, as well as the general public due to unreliable equipment.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	0	0	0	0	0	0	0	0	30,000	30,000
General	G.O. Bonds	0	30,000	0	0	0	0	30,000	0	0	0	60,000
	Total	0	30,000	0	0	0	0	30,000	0	0	30,000	90,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: FIRE #375-Fire Department Boats

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	30,000	Systematic replacement of fire department boats.
		<u>\$30,000</u>	2017 Subtotal
2022	General G.O. Bonds	30,000	Systematic replacement of fire department boats
		<u>\$30,000</u>	2022 Subtotal
2025	General Capital Transfer	30,000	Replace Boat 7 (2010)
		<u>\$30,000</u>	2025 Subtotal
	TOTAL	<u>\$90,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #376-Fire Department Hose & Equipment Replacement

I. PROJECT TYPE: Public Safety

II. LOCATION: All Engines, Ladders, Rescue & Tanker

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Safety  Facility Cond.  Productivity  
 Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: Systematic replacement of fire hose and equipment carried on apparatus.

SERVICE IMPACT: Project is intended to fund equipment purchases to replace aging equipment during the equipping of new apparatus placed in service.

IMPACT IF NOT FUNDED: Inability to effectively outfit fire engines with required hose and associated equipment could compromise public safety.

IV. PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	30,000	0	30,000	0	30,000	0	30,000	0	0	120,000
	Total	0	30,000	0	30,000	0	30,000	0	30,000	0	0	120,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General Capital Transfer	30,000	Systematic replacement of fire hose and equipment.
		<u>30,000</u>	2017 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	FIRE #376-Fire Department Hose & Equipment Replacement		
2019	General Capital Transfer	30,000	Systematic replacement of fire hose and equipment.
		\$30,000	2019 Subtotal
2021	General Capital Transfer	30,000	Systematic replacement of fire hose and equipment.
		\$30,000	2021 Subtotal
2023	General Capital Transfer	30,000	Systematic replacement of fire hose and equipment.
		\$30,000	2023 Subtotal
	TOTAL	\$120,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #380-Neighborhood Safety Improvements

I. PROJECT TYPE: Sidewalks and Streetscapes

II. LOCATION: City-Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  Timeliness

City Master Pl.  Targeted Neighborhoods

DESCRIPTION: The purpose of this project is to implement pedestrian safety improvements throughout the City in order to improve the livability of neighborhoods, reduce traffic speeds, as well as enhance pedestrian and vehicular safety.

SERVICE IMPACT: Implemented city-wide, pedestrian safety improvements will reduce neighborhood traffic speeds and reduce the level of staffing commitment to police department traffic enforcement.

IMPACT IF NOT FUNDED: Continued community concern about neighborhood traffic speeds and pedestrian safety. Increased demand for police speed enforcement.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Donations	0	0	0	0	25,000	0	0	0	0	0	25,000
General	G.O. Bonds	0	0	0	0	40,000	0	0	0	0	0	40,000
	Total	0	0	0	0	65,000	0	0	0	0	0	65,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:            CD-ENGINEERING SERVICES    #380-Neighborhood Safety Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	40,000	Design and construction of pedestrian safety improvements along Warren Street and Westbourne Road at Concord High School.
	General Donations	25,000	School District share.
		\$65,000	2020 Subtotal
	TOTAL	\$65,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SOLID WASTE #381-Landfill Closure and Maintenance

I. PROJECT TYPE: Solid Waste Management

II. LOCATION: City wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> N/A	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
SERVED:	<input type="checkbox"/> Replace	<input type="checkbox"/> H	Mandates	<input type="checkbox"/> H	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> N/A City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> M	O + M Costs	<input type="checkbox"/> N/A	Council Goals	<input type="checkbox"/> H	Timeliness	Targeted Neighborhoods
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: The purpose of this project is to manage the closure and stewardship of the 10 +/- former landfills within the City. As part of this project, the City shall address environmental and regulatory issues, as well as examine the feasibility of converting some facilities into public recreational resources in order to improve quality of life.

Each site is unique and, therefore, the management approach for each facility is different. However, all sites are registered, characterized, and remediated in accordance with state and federal regulations.

When specifically directed by the City Council, opportunities for recreational re-use of these facilities shall be evaluated on a case by case basis in conjunction with regulatory agencies in order to properly guide the design and implementation of closure / remedial action plans.

SERVICE IMPACT: By proactively addressing this issue the City will its liability exposure and provide opportunities to potentially develop additional community open space and other recreation resources.

IMPACT IF NOT FUNDED: Environmental liability exposure.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 30

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-SOLID WASTE   #381-Landfill Closure and Maintenance

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	5,800,000	0	0	0	5,800,000
	Total	0	0	0	0	0	0	5,800,000	0	0	0	5,800,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	5,800,000	Construction of Old Suncook Road Landfill cap. Cost estimate is preliminary pending final design.
		<u>\$5,800,000</u>	2022 Subtotal
	<b>TOTAL</b>	<u>\$5,800,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #403-Parking Division Vehicle Replacement Program

I. PROJECT TYPE: Parking

II. LOCATION: Downtown Central Business District

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.

Motor Vehicle Equipment

DESCRIPTION: This project provides funding for routine replacement of Parking Division vehicles.

SERVICE IMPACT: Routine replacement insures that the Division will have reliable vehicles for enforcement efforts, as well as maintenance of meters and kiosks.

IMPACT IF NOT FUNDED: Vehicle repairs are becoming more frequent due to wear and tear. Chronic vehicle break downs will result in inefficient operation of the Parking System, including loss revenues due to inability to conduct daily enforcement operations.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Parking	Capital Transfer	0	0	0	0	40,000	0	0	0	0	0	40,000
Parking	G.O. Bonds	0	45,000	0	0	0	0	0	0	0	0	45,000
	Total	0	45,000	0	0	40,000	0	0	0	0	0	85,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: POLICE - OPERATIONS #403-Parking Division Vehicle Replacement Program

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Parking G.O. Bonds	45,000	Replacement of service / maintenance vehicle.
		<u>\$45,000</u>	2017 Subtotal
2020	Parking Capital Transfer	40,000	Replace Parking Jeep.
		<u>\$40,000</u>	2020 Subtotal
	TOTAL	<u>\$85,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #410-Sewer Video Inspection Equipment

I. PROJECT TYPE: Sewer Collection

II. LOCATION:

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="N/A"/> Safety	<input type="text" value="M"/> Facility Cond.	<input type="text" value="M"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="text" value="L"/> Mandates	<input type="text" value="M"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="N/A"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="M"/> Timeliness	Sewer
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The sewer inspection TV Video unit has been used extensively to investigate the City infrastructure. The main-line television camera unit is specifically designed for inspection of sanitary and storm sewers. This unit helps locate services and problem areas to set-up a maintenance schedule and capital improvement projects.

SERVICE IMPACT: This equipment serves as a valuable tool to help get real time information about the condition of sewer pipes throughout the City, thereby allowing staff to more efficiently plan repairs and replacement of pipe as needed.

IMPACT IF NOT FUNDED: The City will need to rely upon antiquated equipment that is more susceptible to failure.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 15 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	G.O. Bonds	0	0	0	0	0	0	80,000	0	0	0	80,000
Sewer	Capital Transfer	0	0	0	15,000	0	0	0	0	20,000	0	35,000
	Total	0	0	0	15,000	0	0	80,000	0	20,000	0	115,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:           GS-SEWER   #410-Sewer Video Inspection Equipment

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Sewer Capital Transfer	15,000	Replace lateral service line inspection camera, hardware and software.
		<u>\$15,000</u>	2019 Subtotal
2022	Sewer G.O. Bonds	80,000	Replace mainline and service line inspection camera, hardware and software.
		<u>\$80,000</u>	2022 Subtotal
2024	Sewer Capital Transfer	20,000	Replace lateral service line inspection camera, hardware and software.
		<u>\$20,000</u>	2024 Subtotal
	TOTAL	<u>\$115,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #432-Firehouse Block Parking Garage

I. PROJECT TYPE: Parking

II. LOCATION: Firehouse Parking Garage

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity
	<input type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="L"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="H"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="H"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.  
 Parking

DESCRIPTION: The purpose of this project is to provide funding for routine repairs and refurbishment of the Firehouse Block Parking Garage.

SERVICE IMPACT: Routine investment by the City will ensure the facility's long-term viability (both structurally and economically), improve safety and convenience for users, as well as support economic development efforts in downtown.

IMPACT IF NOT FUNDED: Deferred maintenance could render all or a portion of either garage unusable. This would result in a loss of revenue for the Parking Fund, as well as reduction in the supply of parking spaces downtown merchants, thereby potentially having a negative effect on nearby businesses. Continued deterioration of the facility will likely result in more costly and substantial repairs. In addition, failure to properly maintain the structure could, in the extreme, potentially require the City to close the facility due to safety concerns.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Parking	Capital Transfer	0	0	0	0	71,500	0	0	0	0	0	71,500
Parking	G.O. Bonds	0	120,000	0	0	0	0	0	962,500	0	183,700	1,266,200
	Total	0	120,000	0	0	71,500	0	0	962,500	0	183,700	1,337,700

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #432-Firehouse Block Parking Garage

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Parking G.O. Bonds	60,000	Signage improvements: Lease to Permit System: (\$19,950) Exterior Signage for Rebranding: (30,000) Bumpout for Signage on N. State Street (\$10,000)
	Parking G.O. Bonds	60,000	Surveillance System Upgrade.
		\$120,000	2017 Subtotal
2020	Parking Capital Transfer	71,500	Re-coat waterproofing membrane at drive lanes (\$52,000) Clean existing drainage system (\$5,000) New painted traffic striping (\$8,000) Design / Admin (\$6,500)
		\$71,500	2020 Subtotal
2023	Parking G.O. Bonds	962,500	Concrete Repairs / Maintenance (\$772,000) Waterproofing / Sealing (\$96,000) Landscaping (\$5,000) Design / Admin (\$87,500)
		\$962,500	2023 Subtotal
2025	Parking G.O. Bonds	183,700	Waterproofing / Sealing (\$144,000) Plumbing Repairs / Improvements (\$15,000) New painted traffic striping (\$8,000) Design / Admin (\$16,700)
		\$183,700	2025 Subtotal
	<b>TOTAL</b>	<b>\$1,337,700</b>	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #433-Durgin Block Parking Garage

I. PROJECT TYPE: Parking

II. LOCATION: Durgin Block Parking Garage

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity
	<input type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="L"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="H"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="H"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.  
 Parking

DESCRIPTION: The purpose of this project is to provide funding for routine repairs and refurbishment of the Durgin Block Parking Garage.

SERVICE IMPACT: Routine investment by the City will ensure the facility's long-term viability (both structurally and economically), improve safety and convenience for users, as well as support economic development efforts in downtown.

IMPACT IF NOT FUNDED: Deferred maintenance could render all or a portion of either garage unusable. This would result in a loss of revenue for the Parking Fund, as well as reduction in the supply of parking spaces downtown merchants, thereby potentially having a negative effect on nearby businesses. Continued deterioration of the facility will likely result in more costly and substantial repairs. In addition, failure to properly maintain the structure could, in the extreme, potentially require the City to close the facility due to safety concerns.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Parking	Capital Transfer	0	0	0	0	0	60,000	0	0	0	0	60,000
Parking	G.O. Bonds	0	2,665,000	0	0	0	0	0	0	0	0	2,665,000
	Total	0	2,665,000	0	0	0	60,000	0	0	0	0	2,725,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #433-Durgin Block Parking Garage

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Parking G.O. Bonds	2,375,000	Phase II repairs to structural steel and concrete deck, including membrane replacement as recommended by inspections completed in FY2012-2013 by the HL Turner Group. Phase I was funded in FY2013 (\$1.4 million). The work includes, but is not limited to, repairs to structural steel, waterproofing, repair of expansion joints, as well as drainage improvements.
	Parking G.O. Bonds	150,000	Install water service to garage for maintenance activities.
	Parking G.O. Bonds	75,000	Surveillance Improvements.
	Parking G.O. Bonds	40,000	Exterior Signage for Rebranding.
	Parking G.O. Bonds	25,000	ADA Improvements to School Street Driveways / Sidewalks.
		\$2,665,000	2017 Subtotal
2021	Parking Capital Transfer	60,000	Placeholder: Routine deck maintenance and repairs.
		\$60,000	2021 Subtotal
	<b>TOTAL</b>	<b>\$2,725,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #443-City-Wide Community Center

I. PROJECT TYPE: Public Buildings

II. LOCATION: Canterbury Road (Former Dame School Site)

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	N/A	Safety	H	Facility Cond.	L	Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	N/A	Mandates	H	Service Def.	N/A	Tax Base Exp.	L City Master Pl.
	<input type="checkbox"/> Rebuild	H	O + M Costs	N/A	Council Goals	N/A	Timeliness	Public Facilities
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: In July 2004, the City completed a Master Plan for the construction of a new Heights Community Center. The purpose of this effort was to identify a strategy to either expand or replace the existing Heights Community Center, a small 4,900 SF concrete block building adjacent to Dame School constructed in the 1970s. The study was also aimed at identifying service deficiencies in the City's existing community center system.

Based upon the recommendations of this Study, the City acquired a residence at #28 Canterbury Road in August 2004 for \$290,000 in order to provide land to help site a new Heights Community Center.

Since the completion of the 2004 Study, the underlying concept for this project has grown from a "neighborhood" center for the Heights to a "city-wide multigenerational" community center.

In FY2011, the City completed a four-part supplemental study which (1) determined the current needs of the existing community centers and the cost to implement improvements, (2) a business plan and pro formas for a new "city-wide" facility, (3) confirmed that the community desired two core facilities: one a Keach Park and the other on the west side of the Merrimack River, and (4) provided for a working conceptual design of a new-city wide community at the former Dame School property on Canterbury Road adjacent to Keach Park. A final report was presented to the City Council and adopted in January 2011. This project is intended to implement the recommendations of the January 2011 report. The City subsequently acquired the former Dame School property from the Concord School District in March 2013.

In accordance with the January 2011 report, current recreational activities hosted at the East Concord and West Street Ward House have largely been consolidated and relocated to the new facility. West Street will be retained by the City, however the City will divest of the East Concord Community Center. The Green Street Community Center will remain open until such time as options for a second city-wide multi-generational facility on the west side of the Merrimack River become available.

In FY2015, the City Council appropriated \$651,730 for design of the new facility. Schematic design was completed in April 2015 for 11 different building concepts. As of April 2015, the City Council had not selected any design alternatives for the project.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #443-City-Wide Community Center

Should this project go forward, it is anticipated that the City would partner with other agencies and community organizations to help defray capital and operating costs for the facility.

SERVICE IMPACT: Improved customer service, recreational opportunities, and quality of life for all residents. Increased operational and maintenance costs will be incurred as a result of this project.

IMPACT IF NOT FUNDED: Improved recreational services for the entire community. In addition, the City might be required to make significant investments in the former Dame School property in order to keep the "interim" community center viable.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 50 Expected Bond Term (in Years) 20

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Donations	1,125,000*	0	0	0	0	0	0	0	0	0	1,125,000
General	G.O. Bonds	10,275,000*	0	0	0	0	0	0	0	0	0	10,275,000
	Total	11,400,000	0	0	0	0	0	0	0	0	0	11,400,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	10,125,000	Construction - G.O. Bond Share.
	General Donations	1,125,000	Construction - donation share.
	General G.O. Bonds	150,000	Construction administration.
		\$11,400,000	2016 Subtotal
	TOTAL	\$11,400,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SOLID WASTE #447-Old Turnpike and Old Suncook Landfill Soil Vapor Extraction System

I. PROJECT TYPE: Solid Waste Management

II. LOCATION: Old Turnpike Road Landfill and Old Suncook Landfill

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="L"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="H"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="L"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="H"/> Timeliness	Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: As part of the management of the Old Suncook Landfill, a Soil Vapor Extraction (SVE) system was installed in the mid 2000's to control landfill migration off the property. The closure of the Old Turnpike Landfill in 1995, included a landfill gas control system that originally included a flare to burn excess landfill gas. Since then, the quantity of landfill gas has subsided and the system currently now actively vents to the atmosphere. This project will deliver ongoing maintenance to those systems to provide proper and effective operation into the future.

SERVICE IMPACT: These funds will provide for system rehabilitation. Continued operation in the present condition of the systems will require escalating manpower to maintain proper operation of the old equipment.

IMPACT IF NOT FUNDED: Potential equipment failure could cause the City to be in violation of environmental regulations related to gas migration from these sites as well as the Closure Permit issued for the Old Turnpike Landfill for failure to maintain the system equipment.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Solid Waste	Capital Close-out	15,000	0	0	0	0	0	0	0	0	0	15,000
Solid Waste	Capital Transfer	0	10,000	10,000	10,000	0	0	15,000	0	0	0	45,000
Solid Waste	G.O. Bonds	0	0	0	0	0	125,000	0	0	0	0	125,000
	Total	15,000	10,000	10,000	10,000	0	125,000	15,000	0	0	0	185,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-SOLID WASTE   #447-Old Turnpike and Old Suncook Landfill Soil Vapor Extraction System

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Solid Waste Capital Close-out	15,000	Rehabilitation of gas collection system and wells at Old Turnpike Landfill.
		\$15,000	2016 Subtotal
2017	Solid Waste Capital Transfer	10,000	Rehabilitation of gas collection system and wells at Old Turnpike Landfill.
		\$10,000	2017 Subtotal
2018	Solid Waste Capital Transfer	10,000	Rehabilitation of gas collection system and wells at Old Turnpike Landfill.
		\$10,000	2018 Subtotal
2019	Solid Waste Capital Transfer	10,000	Rehabilitation of gas collection system and wells at Old Turnpike Landfill.
		\$10,000	2019 Subtotal
2021	Solid Waste G.O. Bonds	125,000	Old Turnpike Landfill blower building and associated equipment replacement. Original equipment 1995.
		\$125,000	2021 Subtotal
2022	Solid Waste Capital Transfer	15,000	Old Suncook Landfill blower system replacement.
		\$15,000	2022 Subtotal
	<b>TOTAL</b>	<b>\$185,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-HIGHWAY / UTILITIES #448-Hydrant and Valve Replacement Program

I. PROJECT TYPE: Water Distribution System

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Safety  Facility Cond.  Productivity  
 Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness Water  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: This project provides for the installation and replacement of hydrants and valves necessary to maintain fire protection and serviceability of the water infrastructure.

SERVICE IMPACT: Establishes long range replacement plan that improves service with more reliable infrastructure, thereby reducing long-term maintenance costs. Routine investments help to reduce risk of hydrant and valve failures.

IMPACT IF NOT FUNDED: Deterioration will accelerate to total failure requiring more costly resolution. Service interruptions and inability to support the fire protection mandate.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 25 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	Capital Outlay	57,000	61,000	63,000	63,000	63,000	65,000	68,000	72,000	77,000	85,000	674,000
	Total	57,000	61,000	63,000	63,000	63,000	65,000	68,000	72,000	77,000	85,000	674,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-HIGHWAY / UTILITIES   #448-Hydrant and Valve Replacement Program

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Water Capital Outlay	30,000	Valve replacement.
	Water Capital Outlay	27,000	Hydrant replacement.
		\$57,000	2016 Subtotal
2017	Water Capital Outlay	31,000	Hydrant replacement.
	Water Capital Outlay	30,000	Valve replacement.
		\$61,000	2017 Subtotal
2018	Water Capital Outlay	33,000	Hydrant replacement.
	Water Capital Outlay	30,000	Valve replacement.
		\$63,000	2018 Subtotal
2019	Water Capital Outlay	33,000	Hydrant replacement.
	Water Capital Outlay	30,000	Valve replacement.
		\$63,000	2019 Subtotal
2020	Water Capital Outlay	33,000	Hydrant replacement.
	Water Capital Outlay	30,000	Valve replacement.
		\$63,000	2020 Subtotal
2021	Water Capital Outlay	33,000	Hydrant replacement.
	Water Capital Outlay	32,000	Valve replacement.
		\$65,000	2021 Subtotal
2022	Water Capital Outlay	35,000	Hydrant replacement.
	Water Capital Outlay	33,000	Valve replacement.



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-HIGHWAY / UTILITIES		#448-Hydrant and Valve Replacement Program	
		\$68,000		2022 Subtotal
2023	Water Capital Outlay	37,000		Hydrant replacement.
	Water Capital Outlay	35,000		Valve replacement.
		\$72,000		2023 Subtotal
2024	Water Capital Outlay	40,000		Hydrant replacement.
	Water Capital Outlay	37,000		Valve replacement.
		\$77,000		2024 Subtotal
2025	Water Capital Outlay	45,000		Hydrant replacement.
	Water Capital Outlay	40,000		Valve replacement.
		\$85,000		2025 Subtotal
	TOTAL	\$674,000		

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #451-Leak Detection

I. PROJECT TYPE: Water Distribution System

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  Timeliness  City Master Pl.  Water

DESCRIPTION: This will provide for the capital cost of purchasing data loggers. Data loggers are placed on water main valves for a period of time to record the sound of the water flowing through the pipe. The data is then uploaded to into a computer. The accompanying software can make a distinction between water flowing within a compromised water main versus an intact pipe.

SERVICE IMPACT: This will help insure the utility minimizes water loss in the system.

IMPACT IF NOT FUNDED: Less efficient detection of leaks will result in higher operations costs.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 5 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	0	30,000	0	0	0	50,000	0	0	0	0	80,000
	Total	0	30,000	0	0	0	50,000	0	0	0	0	80,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:           GS-WATER   #451-Leak Detection

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Water G.O. Bonds	30,000	Replace leak detection equipment.
		<u>\$30,000</u>	2017 Subtotal
2021	Water G.O. Bonds	50,000	Replace leak detection equipment. Anticipate advancements in new technology.
		<u>\$50,000</u>	2021 Subtotal
	TOTAL	<u>\$80,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #466-Penacook Waste Water Treatment Plant Improvements

I. PROJECT TYPE: Sewer Treatment

II. LOCATION: Penacook WWTP

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> H	Facility Cond.	<input type="checkbox"/> L	Productivity		
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> L	Mandates	<input type="checkbox"/> M	Service Def.	<input type="checkbox"/> N/A	Tax Base Exp.	<input type="checkbox"/> N/A	City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> L	O + M Costs	<input type="checkbox"/> N/A	Council Goals	<input type="checkbox"/> M	Timeliness		Sewer
	<input checked="" type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis								

DESCRIPTION: The Penacook Waste Water Treatment Plant has been in operation since 1974 with a major process upgrades completed in 2005. The projects described herein are a series of improvements, upgrades and refurbishments of existing infrastructure.

SERVICE IMPACT: Provides planned upgrade and renovation of existing infrastructure to provide short-term and long-term reliability, as well as to bring the facility into compliance with various codes and regulations which have been enacted since the facility was first put into service.

IMPACT IF NOT FUNDED: Potential for increased operating and maintenance costs over time; increased potential for costly emergency repairs; potential for citations or fines for failure to meet life safety or building code deficiencies.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 15 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	Capital Transfer	10,000	0	0	25,000	0	0	20,000	0	0	0	55,000
Sewer	Capital Close-out	14,131	0	0	0	0	0	0	0	0	0	14,131
Sewer	G.O. Bonds	950,000	480,000	1,344,000	160,000	185,000	0	635,000	500,000	165,000	0	4,419,000
	Total	974,131	480,000	1,344,000	185,000	185,000	0	655,000	500,000	165,000	0	4,488,131

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-SEWER #466-Penacook Waste Water Treatment Plant Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Sewer G.O. Bonds	465,000	Building systems improvements - construction of electrical distribution system improvements designed in FY15.
	Sewer G.O. Bonds	335,000	Equipment/process improvements - replacement of SHT mixers, blowers & aeration system.
	Sewer G.O. Bonds	100,000	Equipment/process improvements - upgrade SCADA system software to coincide with IT planned replacement of SCADA hardware.
	Sewer G.O. Bonds	50,000	Building systems improvements - UST replacement.
	Sewer Capital Close-out	14,131	Closeout Share.
	Sewer Capital Transfer	10,000	Building systems improvements - replace roof mounted standby generator muffler.
		\$974,131	2016 Subtotal
2017	Sewer G.O. Bonds	250,000	Roof replacement.
	Sewer G.O. Bonds	130,000	Equipment/process improvements - design engineering for grit removal system and storm flow storage control improvements.
	Sewer G.O. Bonds	100,000	Electrical Distribution System upgrades.
		\$480,000	2017 Subtotal
2018	Sewer G.O. Bonds	785,000	Equipment/process improvements - construction engineering and construction of improvements designed in FY16.
	Sewer G.O. Bonds	350,000	Electrical Distribution System upgrades.
	Sewer G.O. Bonds	144,000	Building systems improvements - HVAC improvements.
	Sewer G.O. Bonds	40,000	Equipment/process improvements - Boscawen metering station flow metering system upgrade.
	Sewer G.O. Bonds	25,000	Equipment/process improvements - SBR motive pump rebuild.
		\$1,344,000	2018 Subtotal
2019	Sewer G.O. Bonds	110,000	Equipment/process improvements - sludge transfer pump replacement.
	Sewer G.O. Bonds	50,000	Site/security improvements - allowance for necessary pavement repairs.
	Sewer Capital Transfer	25,000	Equipment/process improvements - SBR motive pump rebuild.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-SEWER	#466-Penacook Waste Water Treatment Plant Improvements		
			\$185,000	2019 Subtotal
2020	Sewer G.O. Bonds		100,000	Equipment/process improvements - algae control system.
	Sewer G.O. Bonds		85,000	Fire alarm upgrades.
			\$185,000	2020 Subtotal
2022	Sewer G.O. Bonds		525,000	Equipment/process improvements - influent screw pump replacement.
	Sewer G.O. Bonds		110,000	Equipment/process improvements - plant water pump system replacement.
	Sewer Capital Transfer		20,000	Building systems improvements - plumbing upgrades.
			\$655,000	2022 Subtotal
2023	Sewer G.O. Bonds		500,000	Building/structural improvements - allowance for necessary concrete/structural repairs.
			\$500,000	2023 Subtotal
2024	Sewer G.O. Bonds		50,000	Equipment/process improvements - chlorine contact tank gate replacement.
	Sewer G.O. Bonds		50,000	Renovation of interior finishes.
	Sewer G.O. Bonds		35,000	Equipment/process improvements - EQ tank drain pump replacement.
	Sewer G.O. Bonds		30,000	Pump station # 1 and # 2 lighting systems.
			\$165,000	2024 Subtotal
	TOTAL		\$4,488,131	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #468-Reconstruct Taxiway A & Itinerant Ramp

I. PROJECT TYPE: Airport

II. LOCATION: Concord Municipal Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Replace	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis	<input type="checkbox"/> Safety	<input type="checkbox"/> Mandates	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Productivity	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> Timeliness	<input type="checkbox"/> City Master Pl.	<input type="checkbox"/> Airport
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DESCRIPTION: Reconstruct existing Taxiway A in order to support continued operation of Runway 17/35.

Construct an Itinerant Ramp to accommodate larger aircraft. In 2004, Runway 12/30 was reconstructed and reduced in width from 150 feet to 75 feet to comply with current FAA regulations. Large corporate aircrafts (DC 9's and 727's) can no longer taxi on the reduced runway. All improvements are recommended within the 2006 Airport Master Plan.

SERVICE IMPACT: Project will improve safety for aircraft during take off and landing cycles as well as help reduce maintenance expenses. Improvements will also help the airport accommodate larger corporate aircraft (a key goal of the 2006 Airport Master Plan).

IMPACT IF NOT FUNDED: Existing safety concerns regarding aircraft back taxiing on the active runway will persist, thereby potentially jeopardizing future Federal grant funds for airport improvements. In addition, the airport will not be able to easily accommodate larger corporate aircraft, thus hindering economic development goals.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	Federal	517,500*	450,000	450,000	0	150,000	1,000,000	0	0	0	0	2,567,500
Airport	Capital Transfer	28,750	25,000	25,000	0	8,334	8,556	0	0	0	0	95,640
Other	State	28,750*	25,000	25,000	0	8,334	55,556	0	0	0	0	142,640
	Total	575,000	500,000	500,000	0	166,668	1,064,112	0	0	0	0	2,805,780

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #468-Reconstruct Taxiway A & Itinerant Ramp

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Other Federal	517,500	Design and construct rehabilitation of a portion of Taxiway A. Phase 2 of 4.
	Airport Capital Transfer	28,750	Design and construct rehabilitation of a portion of Taxiway A. Phase 2 of 4.
	Other State	28,750	Design and construct rehabilitation of a portion of Taxiway A. Phase 2 of 4.
		\$575,000	2016 Subtotal
2017	Other Federal	450,000	Design and construct rehabilitation of a portion of Taxiway A. Phase 3 of 4.
	Airport Capital Transfer	25,000	Design and construct rehabilitation of a portion of Taxiway A. Phase 3 of 4.
	Other State	25,000	Design and construct rehabilitation of a portion of Taxiway A. Phase 3 of 4.
		\$500,000	2017 Subtotal
2018	Other Federal	450,000	Design and construct rehabilitation of a portion of Taxiway A. Phase 4 of 4.
	Airport Capital Transfer	25,000	Design and construct rehabilitation of a portion of Taxiway A. Phase 4 of 4.
	Other State	25,000	Design and construct rehabilitation of a portion of Taxiway A. Phase 4 of 4.
		\$500,000	2018 Subtotal
2020	Other Federal	150,000	Design the expansion of the Itinerant Ramp to the north to accommodate larger aircraft. Federal portion.
	Airport Capital Transfer	8,334	State portion.
	Other State	8,334	State portion.
		\$166,668	2020 Subtotal
2021	Other Federal	1,000,000	Construct the expansion of the Itinerant Ramp to the north to accommodate larger aircraft. Federal portion.
	Other State	55,556	State portion.
	Airport Capital Transfer	8,556	City portion.
		\$1,064,112	2021 Subtotal
TOTAL		\$2,805,780	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #468-Reconstruct Taxiway A & Itinerant Ramp

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #471-Airport Fuel Farm

I. PROJECT TYPE: Airport

II. LOCATION: Concord Municipal Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	<input type="checkbox"/> Airport
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Replace existing fuel farm to comply with anticipated Federal Aviation Administration (FAA) regulations and user growth.

SERVICE IMPACT: Achieve FAA compliance requirements and improved customer service. Also, installation of new equipment will further safe guard the environment and reduce possibility of petroleum contamination resulting from older equipment.

IMPACT IF NOT FUNDED: Inefficient fuel farm to service customers; potential environmental and safety liabilities from deteriorated fuel farm equipment.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Airport	Capital Transfer	0	0	0	0	0	0	0	27,778	0	0	27,778
Other	Federal	0	0	0	0	0	0	0	500,000	0	0	500,000
Other	State	0	0	0	0	0	0	0	27,778	0	0	27,778
	Total	0	0	0	0	0	0	0	555,556	0	0	555,556

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #471-Airport Fuel Farm

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2023	Other Federal	500,000	Expand Fuel Farm due to increased activity at the airport.
	Airport Capital Transfer	27,778	City Portion.
	Other State	27,778	State Portion.
		\$555,556	2023 Subtotal
	TOTAL	\$555,556	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: LIBRARY #477-Library Equipment Replacement

I. PROJECT TYPE: Information Technology & Communications

II. LOCATION: Concord Public Library, 45 Green Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  M Safety  M Facility Cond.  L Productivity  
 Replace  N/A Mandates  L Service Def.  N/A Tax Base Exp.  L City Master Pl.  
 Rebuild  N/A O + M Costs  N/A Council Goals  L Timeliness  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The Concord Public Library utilizes certain equipment in the delivery of its services to the community that requires periodic replacement. This includes the server for the library automation system, the library automation system itself, self-check units, the security gate, and microfilm reader/printers. This project may be delayed or cancelled in whole or in part pending progress on development of a new public library in downtown Concord as outlined in CIP # 68.

SERVICE IMPACT: Replacement equipment allows the Concord Public Library to maintain current services provided to the community.

IMPACT IF NOT FUNDED: Services to the community will be compromised by older equipment.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 5 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	23,150	0	10,000	0	0	30,000	60,000	0	0	123,150
General	G.O. Bonds	0	100,740	0	0	0	0	0	0	0	0	100,740
	Total	0	123,890	0	10,000	0	0	30,000	60,000	0	0	223,890

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: LIBRARY #477-Library Equipment Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	100,740	Replace Library automation system and upgrade server purchased in FY2013.
	General Capital Transfer	23,150	Replace main floor self-check unit purchased in 2006.
		\$123,890	2017 Subtotal
2019	General Capital Transfer	10,000	Microfilm Reader/Printer Replacement (1 workstation).
		\$10,000	2019 Subtotal
2022	General Capital Transfer	30,000	Replace Library automation server that was purchased in FY2017.
		\$30,000	2022 Subtotal
2023	General Capital Transfer	25,000	Replace main floor service desk.
	General Capital Transfer	25,000	Replace Children's Room self-check unit purchased in 2011.
	General Capital Transfer	10,000	Purchase e-commerce kiosk & software to facilitate payment of fines and fees by credit card with our library automation system onsite or remotely.
		\$60,000	2023 Subtotal
	TOTAL	\$223,890	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #478-North Pembroke Road Bridge Replacement

I. PROJECT TYPE: Bridges

II. LOCATION: North Pembroke Road over Soucook River

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	<input type="checkbox"/> Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to replace the existing substandard bridge on North Pembroke Road over the Soucook River. A combination of damage and fatigue led to its recent temporary closure. The present deck and superstructure is rated in poor condition due to structurally deficient components. Interim structural repairs were recently completed. This bridge is municipally owned by both Concord and Pembroke and is on the State's "Red List" of deficient bridges.

This project including both repairs and replacement will be funded through the State Municipal Bridge Aid Program (80% State, 20% Local Share)

SERVICE IMPACT: Continue use for public travel.

IMPACT IF NOT FUNDED: Unmet legal requirements. Restricted capacity on bridge structure or full bridge closure. Increased threat to public health and safety. Disruption of regional traffic patterns would occur from temporary or permanent closure.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2007 PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 50 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Donations	0	330,950	0	0	0	0	0	0	0	0	330,950
General	G.O. Bonds	0	38,050	0	0	0	0	0	0	0	0	38,050
Other	State	0	1,476,000	0	0	0	0	0	0	0	0	1,476,000
	Total	0	1,845,000	0	0	0	0	0	0	0	0	1,845,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #478-North Pembroke Road Bridge Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Other State	1,476,000	Design and construction of new bridge. \$1,476,000 (State share 80% of total project costs through the Municipal Bridge Aid Program)
	General Donations	330,950	Town of Pembroke share of design and construction of bridge replacement. (Local share of 20% is shared by Concord and Pembroke)
	General G.O. Bonds	38,050	City of Concord share of design and construction of bridge replacement. (Local share of 20% is shared by Concord and Pembroke)
		\$1,845,000	2017 Subtotal
	<b>TOTAL</b>	<b>\$1,845,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #479-Storm Water Enterprise Mechanism

I. PROJECT TYPE: Storm Sewer

II. LOCATION: City-wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> L Safety	<input type="checkbox"/> H Facility Cond.	<input type="checkbox"/> H Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> M Mandates	<input type="checkbox"/> H Service Def.	<input type="checkbox"/> L Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> H O + M Costs	<input type="checkbox"/> H Council Goals	<input type="checkbox"/> H Timeliness	Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: A City-wide engineering master plan/study of existing storm drainage facilities was completed and accepted by the City Council in 2007. The study includes a comprehensive field assessment of existing conditions and the mapping of the entire drainage system/drainage areas in the City's GIS system. Results of the study have been used to prioritize maintenance activities and provide a plan for storm drainage replacement and/or expansion of the system. (See CIP 83 "Storm Sewer" for more details)

A major component of the master plan was to review potential alternative methods of funding the City's storm water management program. One such option is the creation of a storm water enterprise fund financed by special fees assessed on private property. The development of a storm water enterprise mechanism will provide a source of long-term funding of the storm water management program including program administration, engineering, operations and maintenance and capital planning and construction.

SERVICE IMPACT: The program will provide a dedicated funding source for the City's storm water drainage system. Dedicated funds will allow the City to prioritize and implement repairs and improvements, as well as provide resources to help the City with costs associated with future State and Federal storm water regulations.

IMPACT IF NOT FUNDED: Without an enterprise funding mechanism, the City will continue to fund its storm water management program through the General Fund thereby freeing up General Fund monies to make investments in other City programs and facilities. Given continued fiscal pressures on the City's General Fund, use of the General Fund to make significant comprehensive improvements to storm water infrastructure is not sustainable. Without implementing an alternative funding mechanism, the City's storm water system (much of which is old and antiquated) will continue to deteriorate resulting in pipe failures, potential sink holes, as well as poorly treated effluent entering surface waters thereby creating potential environmental and regulatory liabilities for the City.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2007 PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #479-Storm Water Enterprise Mechanism

**VI. PROJECT FUND SUMMARY**

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	50,000	0	0	0	0	0	0	0	50,000
	Total	0	0	50,000	0	0	0	0	0	0	0	50,000

**VII. PROJECT FUND DETAIL**

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	50,000	Storm Water Enterprise Fund Rate Structure Analysis. Includes review of the organization structure, development of storm water budget and rate setting structure, program cost allocation, billing systems and the development of a public outreach and communication program.
		\$50,000	2018 Subtotal
	<b>TOTAL</b>	<b>\$50,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-WATER #482-Water System Asset Management

I. PROJECT TYPE: Water Treatment

II. LOCATION: Various City locations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Replace	<input type="checkbox"/> Rebuild	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis	<input type="checkbox"/> Safety	<input type="checkbox"/> Mandates	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Productivity	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> Timeliness	<input type="checkbox"/> City Master Pl.	<input type="checkbox"/> Long-Range Planning

DESCRIPTION: The City's Water Master Plan recommended that the City establish a comprehensive asset management program. This effort shall include an analysis by outside experts to help a city steering committee define the program scope and resource requirements. A gap analysis is a business assessment tool that enables organizations to compare actual performance with its potential performance as compared to similar top performing organizations.

SERVICE IMPACT: Compliance with GASB 34. Benefits include helping management to document a baseline reference point to measure improvement and guide short term and long term recommendations including multi year budget estimates.

IMPACT IF NOT FUNDED: Lack of informed and qualified decision making.

IV PREVIOUS FISCAL YEAR AUTHORIZED: PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Water	G.O. Bonds	0	0	0	90,000	0	0	0	0	0	0	90,000
Water	Capital Transfer	0	20,000	0	0	0	0	0	0	0	0	20,000
	Total	0	20,000	0	90,000	0	0	0	0	0	0	110,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-WATER   #482-Water System Asset Management

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Water Capital Transfer	20,000	Consultant services to prepare an asset management strategy for the water system.
		\$20,000	2017 Subtotal
2019	Water G.O. Bonds	90,000	Placeholder: Implementation of an asset management strategy. Acquisition of equipment, software, etc. as needed.
		\$90,000	2019 Subtotal
	<b>TOTAL</b>	<b>\$110,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #490-Police Department Records Management Microfilm Conversion

I. PROJECT TYPE: Public Safety

II. LOCATION: Police Department

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="N/A"/> Safety	<input type="text" value="N/A"/> Facility Cond.	<input type="text" value="L"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="H"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="L"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="L"/> Timeliness	Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to convert all Police Department microfilm records to a digital format for ease of research and to reduce storage needs.

SERVICE IMPACT: From 1977 to 1997, the Concord Police Department archived all reports on Microfilm. Reports for those years are now stored on 326 microfilm cartridge tapes. Around 2000, a decision was made to pursue a city wide data management system so no further microfilming was done.

Presently a Minolta film reader is used archived reports on microfilm. This reader was installed at CPD on July 19, 1980. This machine is no longer supported by the manufacturer or our service company by maintenance agreement. This is the only machine that allows the Police Department to access these tapes and hence their archival records.

The current reader is unreliable and has regular mechanical malfunctions requiring significant staff time to attempt to repair. Due to lack of parts, repairs are typically not ideal or long-lasting.

IMPACT IF NOT FUNDED: The Police Department will continue to rely on outdated equipment which is prone to failure. This will create inefficiencies.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 0 PREVIOUS AMOUNT: 0

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	190,000	0	0	0	0	0	0	0	0	190,000
	Total	0	190,000	0	0	0	0	0	0	0	0	190,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: POLICE - OPERATIONS #490-Police Department Records Management Microfilm Conversion

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	190,000	Scan microfilms to digital format.
		<u>\$190,000</u>	2017 Subtotal
	TOTAL	<u>\$190,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #492-Runway Protection Zone Obstruction Removal

I. PROJECT TYPE: Airport

II. LOCATION: Concord Municipal Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> H Safety	<input type="checkbox"/> L Facility Cond.	<input type="checkbox"/> L Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> H Mandates	<input type="checkbox"/> L Service Def.	<input type="checkbox"/> N/A Tax Base Exp.	<input type="checkbox"/> H City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> L O + M Costs	<input type="checkbox"/> L Council Goals	<input type="checkbox"/> N/A Timeliness	Airport
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Grant contracts with the FAA and State of New Hampshire for major construction projects completed at the Airport over the last several years require the City to undertake certain periodic runway protection zone improvements in order to insure ongoing safety for aircraft using the facility. The 2006 Airport Master Plan identified obstructions and aviation hazards in approaches to runways. In 2007, an Obstruction Removal Management Plan was completed that identifies all obstructions and easements required to remove the obstructions within runway safety zones. Future removals and acquisitions will be programmed in the CIP out years.

SERVICE IMPACT: Provides for FAA mandated control of safety areas.

IMPACT IF NOT FUNDED: Potential threats to aircraft during take offs and landings as well as loss of Federal funding and potential decrease in activity at the airport.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	State	0	0	0	11,400	0	0	0	0	0	0	11,400
Airport	Capital Transfer	0	0	0	11,400	0	0	0	0	0	0	11,400
Other	Federal	0	0	0	205,200	0	0	0	0	0	0	205,200
	Total	0	0	0	228,000	0	0	0	0	0	0	228,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #492-Runway Protection Zone Obstruction Removal

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Other Federal	205,200	Airport Obstruction removal required for grant and subsidy continuation. Federal portion.
	Airport Capital Transfer	11,400	Airport Obstruction removal required for grant and subsidy continuation. City portion.
	Other State	11,400	Airport Obstruction removal required for grant and subsidy continuation. State portion.
		\$228,000	2019 Subtotal
	<b>TOTAL</b>	<b>\$228,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #498-Birchdale Road Bridge Replacement

I. PROJECT TYPE: Bridges

II. LOCATION: Birchdale Road over Bela Brook

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="H"/> Mandates	<input type="checkbox" value="M"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp. <input type="checkbox" value="M"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="M"/> Council Goals	<input type="checkbox" value="M"/> Timeliness <input type="checkbox"/> Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

DESCRIPTION: Replace the existing substandard bridge in disrepair over Bela Brook. Provide a structure that is acceptable to current State and Federal standards. The present bridge deck and superstructure is rated in poor condition due to structurally deficient components.

This project is eligible and will be funded through the State Municipal Bridge Aid program (80% State, 20% City).

SERVICE IMPACT: Limited increase in highway operation and maintenance costs.

IMPACT IF NOT FUNDED: Discontinuance of public way, unmet legal requirements and reduced or restricted capacity on bridge structure.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2010

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	State	0	0	599,200	0	0	0	0	0	0	0	599,200
General	G.O. Bonds	0	0	149,800	0	0	0	0	0	0	0	149,800
	Total	0	0	749,000	0	0	0	0	0	0	0	749,000



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #498-Birchdale Road Bridge Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Other State	599,200	Design and construction of bridge replacement. State share of project is 80%.
	General G.O. Bonds	149,800	Design and construction of bridge replacement. City share of project is 20%.
		\$749,000	2018 Subtotal
	TOTAL	\$749,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #502-Whitney Road Extension

I. PROJECT TYPE: Streets New Construction

II. LOCATION: Roadway extension southerly of existing Whitney Road terminus to Sewalls Falls Road.

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  Timeliness  City Master Pl.  Corridor Improvements

DESCRIPTION: The purpose of this project is to expand the existing municipal infrastructure in an effort to promote and encourage future development within the Whitney Road Industrial Park and abutting lands located between Whitney Road and Sewalls Falls Road.

SERVICE IMPACT: Moderate increases in highway and sewer operation and maintenance costs.

IMPACT IF NOT FUNDED: Reduces economic development opportunities in northerly development corridor.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2009

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Sewer	G.O. Bonds	0	0	0	0	0	0	0	0	0	525,000	525,000
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	3,000,000	3,000,000
	Total	0	0	0	0	0	0	0	0	0	3,525,000	3,525,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #502-Whitney Road Extension

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	General G.O. Bonds	2,800,000	Construction of Whitney Road Extension.
	Sewer G.O. Bonds	525,000	Construction of sewer improvements within Whitney Road Extension.
	General G.O. Bonds	200,000	Design of roadway and sewer improvements for Whitney Road Extension.
		<u>\$3,525,000</u>	2025 Subtotal
	TOTAL	<u>\$3,525,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #506-Historical Surveys

I. PROJECT TYPE: Community Planning/Implementation

II. LOCATION: City-wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Facility Cond.  Productivity

Mandates  Service Def.  Tax Base Exp.  City Master Pl.

O + M Costs  Council Goals  Timeliness  Long-Range Planning

DESCRIPTION: The Historic Resources Section of the Master Plan 2030 recommended that additional historical surveys for West Concord and East Concord Villages, as well as a citywide survey of historic and pre-historic archeological resources.

SERVICE IMPACT: These studies will inform the City's development review process much as similar past studies have been used for those sections of the City where such studies have been completed. Similarly, this information will be used to evaluate proposed actions of the federal, State, and county governments in Concord. Adaptive reuse of historic structures may become a more viable option in light of the results of such studies. The City's knowledge of its historic and pre-historic past will be enhanced by the archeological study.

IMPACT IF NOT FUNDED: With the passage of time and the continuation of development in the City, valuable historic resources may be demolished or deteriorate beyond the point of repair, and archeological resources may be destroyed and lost.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 50 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Other	Federal	0	35,000	0	35,000	0	0	0	0	0	0	70,000
	Total	0	35,000	0	35,000	0	0	0	0	0	0	70,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-COMMUNITY PLANNING #506-Historical Surveys

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	Other Federal	35,000	Historical / architectural surveys of City Villages and Neighborhoods, including historic and prehistoric archeological resources as funding is available.
		<hr/>	
		\$35,000	2017 Subtotal
2019	Other Federal	35,000	Historical / architectural surveys of City Villages and Neighborhoods, including historic and prehistoric archeological resources as funding is available.
		<hr/>	
		\$35,000	2019 Subtotal
		<hr/>	
	TOTAL	\$70,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-HIGHWAY / UTILITIES #512-Emergency Vehicle Repairs

I. PROJECT TYPE: GSD Vehicles

II. LOCATION: City wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="H"/> Facility Cond.	<input type="checkbox" value="H"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="N/A"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="H"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: This project is intended to provide resources to finance major unforeseen equipment repairs across the organization. Although the General Services Department maintains an operating account for outside services / repairs, these funds are geared toward unforeseen major repairs such as engine / transmission replacements, etc. By funding these repairs as a Capital Project, the General Services Department will have a dedicated funding source thereby allowing for repairs to be made in a more timely manner.

SERVICE IMPACT: Vehicles would have to remain out of service thereby reducing overall productivity and efficiency of operations. Alternatively, department operating accounts would have to be used to fund repairs which would in turn impact department specific operations on a case by case basis.

IMPACT IF NOT FUNDED: If key pieces of equipment are placed out of commission due to lack of funding for repairs, the City would be unable to provide services to the community in an effective and efficient manner.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

5

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Outlay	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	100,000
	Total	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	100,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-HIGHWAY / UTILITIES   #512-Emergency Vehicle Repairs

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2016 Subtotal
2017	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2017 Subtotal
2018	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2018 Subtotal
2019	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2019 Subtotal
2020	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2020 Subtotal
2021	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2021 Subtotal
2022	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2022 Subtotal
2023	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2023 Subtotal
2024	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2024 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-HIGHWAY / UTILITIES	#512-Emergency Vehicle Repairs	
2025	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2025 Subtotal
	TOTAL	\$100,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #515-Golf Course Winter Recreation Improvements

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Beaver Meadow Golf Course

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs

Facility Cond.  Service Def.  Council Goals

Productivity  Tax Base Exp.  Timeliness  City Master Pl.

DESCRIPTION: Provide winter recreational activities at the golf course site. Expand the site to a year round recreational facility. Provide cross country skiing, skating and sledding to enhance the winter recreational programs.

SERVICE IMPACT: Expanded seasonal use will enhance the communities recreational opportunities and potentially become a source of new revenues for the Golf Fund. Increased operating and maintenance costs to maintain infrastructure and for long-term equipment replacement.

IMPACT IF NOT FUNDED: Winter recreational opportunities for residents will remain unchanged.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 5 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	17,000	0	0	20,000	0	0	0	0	0	37,000
General	Impact Fees Rec Dist 1	0	25,000	0	0	0	0	0	0	0	0	25,000
	Total	0	42,000	0	0	20,000	0	0	0	0	0	62,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:            REC-GROUNDS    #515-Golf Course Winter Recreation Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General Impact Fees Rec Dist 1	25,000	Purchase recreational equipment; cross country skies and boots and skates for rental.
	General G.O. Bonds	17,000	Replace trail groomer and snowmobile for cross country skiing at Beaver Meadow.
		<u>\$42,000</u>	2017 Subtotal
2020	General G.O. Bonds	20,000	Purchase equipment to support ice skating on the pond near the 9th green.
		<u>\$20,000</u>	2020 Subtotal
	TOTAL	<u>\$62,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #518-Bridge and Dam Maintenance / Repairs

I. PROJECT TYPE: Bridges

II. LOCATION: City-wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="M"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="H"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="L"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: This project is intended to provide funding for major maintenance or repair work on the City's bridges and dams as mandated by NH Department of Transportation, NH Department of Environmental Services, Federal Highway Administration, but not full reconstruction.

As of April 2015, the City owned and maintained 20 bridges and 14 dams.

SERVICE IMPACT: Maintain structural integrity and repair of the City's bridge and dam inventory with no change in regular maintenance costs.

IMPACT IF NOT FUNDED: Continued deterioration of major bridge and dam components resulting in increased maintenance costs and potential for restricted use (load limits and safety violations).

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2010

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years) 5

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	75,000	75,000	75,000	75,000	0	0	0	0	0	300,000
General	G.O. Bonds	35,000	100,000	0	0	0	0	0	0	0	0	135,000
General	Highway Reserve	0	150,000	0	0	0	0	0	0	0	0	150,000
	Total	35,000	325,000	75,000	75,000	75,000	0	0	0	0	0	585,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #518-Bridge and Dam Maintenance / Repairs

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	35,000	Turtle Town Pond Dam: Design of repairs for section of dam experiencing fatigue.
		\$35,000	2016 Subtotal
2017	General Highway Reserve	150,000	Loudon Road - Evaluate deck and superstructure and replace bridge expansion joints (east and west abutment approaches), and scupper drains.
	General G.O. Bonds	100,000	Rehabilitation of a section of the Turtle Town Dam experiencing fatigue.
	General Capital Transfer	75,000	Pressure wash and seal three municipal bridges.
		\$325,000	2017 Subtotal
2018	General Capital Transfer	75,000	Pressure wash and seal three municipal bridges.
		\$75,000	2018 Subtotal
2019	General Capital Transfer	75,000	Pressure wash and seal three municipal bridges.
		\$75,000	2019 Subtotal
2020	General Capital Transfer	75,000	Pressure wash and seal three municipal bridges.
		\$75,000	2020 Subtotal
	<b>TOTAL</b>	<b>\$585,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #519-Manchester Street/Old Turnpike Road Intersection Improvements

I. PROJECT TYPE: Intersections

II. LOCATION: Manchester Street and Old Turnpike Road

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  Timeliness  City Master Pl.

DESCRIPTION: Following the completion of Regional Drive in 2005, traffic within the Manchester Street/Old Turnpike Road/Regional Drive corridor has continued to grow. As a result, recent changes to signal timing at the Manchester Street and Old Turnpike Road has improved levels of service. However, with traffic growth expected in the near term, intersection geometry improvements will be required.

This project includes traffic signal design and expansion of the Old Turnpike Road approach to two (2) right turn lanes unto Manchester Street. This project will be coordinated with the ongoing design efforts at Terrill Park.

SERVICE IMPACT: Improved vehicle safety and increased capacity in this designated arterial corridor.

IMPACT IF NOT FUNDED: Continued congestion and reduced levels of service at the intersection.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2010

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	415,000	415,000
General	Impact Fees Traf Dist 4	0	0	0	0	0	0	0	0	0	85,000	85,000
	Total	0	0	0	0	0	0	0	0	0	500,000	500,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #519-Manchester Street/Old Turnpike Road Intersection Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	General G.O. Bonds	415,000	Bond Share
	General Impact Fees Traf Dist 4	85,000	Construction of improvements to Old Turnpike Road approach to Manchester Street including modifications to the existing traffic signal.
		\$500,000	2025 Subtotal
	TOTAL	\$500,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #520-Intersection Safety Improvements

I. PROJECT TYPE: Intersections

II. LOCATION: Various Locations Throughout the City

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	<input type="text" value="H"/>	Safety	<input type="text" value="H"/>	Facility Cond.	<input type="text" value="H"/>	Productivity	
SERVED:	<input type="checkbox"/> Replace	<input type="text" value="M"/>	Mandates	<input type="text" value="H"/>	Service Def.	<input type="text" value="L"/>	Tax Base Exp.	<input type="text" value="L"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="text" value="L"/>	O + M Costs	<input type="text" value="M"/>	Council Goals	<input type="text" value="H"/>	Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: With continued focus on intersection safety, the Traffic Operations Committee outlined specific intersections with skewed geometry, multiple side-street approaches, sight distance limitations, and potential for high-speed turns. Each project is intended to be scheduled concurrently with the annual paving program (CIP #78) to reduce costs and improve safety and traffic operations.

Project improvements typically include realigning the side-street intersection approaches to a traditional "T" type intersection configuration. Final intersection option will be reviewed with City Council.

Program intersections include Graham Road/Snow Pond Road, Carter Hill Road/Lakeview Drive, Abbott Road/Sewalls Falls Road, Mountain Road/Sanborn Road, and Borough Road/River Road.

SERVICE IMPACT: Improved vehicle safety and sight distance at the intersection.

IMPACT IF NOT FUNDED: Continued safety concern and limited sight distance.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2010

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

20

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #520-Intersection Safety Improvements

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	50,000	50,000	100,000	100,000	300,000
	Total	0	0	0	0	0	0	50,000	50,000	100,000	100,000	300,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	50,000	Reconstruction of the Graham Road / Snow Pond Intersection.
		\$50,000	2022 Subtotal
2023	General G.O. Bonds	50,000	Reconstruction of the Carter Hill / Lakeview Drive Intersection.
		\$50,000	2023 Subtotal
2024	General G.O. Bonds	100,000	Reconstruction of the Abbott Road / Sewalls Falls Road Intersection.
		\$100,000	2024 Subtotal
2025	General G.O. Bonds	100,000	Reconstruction of the Mountain Road / Sanborn Road Intersection.
		\$100,000	2025 Subtotal
	<b>TOTAL</b>	\$300,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: POLICE - OPERATIONS #521-Police Firearms Range Improvements

I. PROJECT TYPE: Public Safety

II. LOCATION: Concord Police Firearms Range

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="L"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity		
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="M"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="N/A"/> City Master Pl.	
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="H"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="L"/> Timeliness	Other	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis					

DESCRIPTION: The purpose of this project is to provide for periodic repair and refurbishment of the Concord Police Department Firearms Range. Proposed improvements include renovation of the training house, range, driveways, berms, and associated facilities.

Phase I was completed in FY2014. Improvements included removal of metals from the berms, as well as reconstruction of protective berms. A new retaining wall was also constructed.

Phase II of the project involves removing the existing awning and replacing it with a new one. Also, paving the pistol range itself. Current pavement is more than 25 years old. It is worn, cracked and a tripping hazard in places.

SERVICE IMPACT: Limited resources have been invested in the maintenance of the firearms range over the years. The range is showing its age and requires rehabilitation so that police officers can train and maintain certifications.

IMPACT IF NOT FUNDED: Firearms training and qualification is mandatory for police officers. If the range continues to deteriorate, it will be rendered unusable for training and qualifications. Police officers will have to travel out of town for training and qualifications. Police officers qualify twice each year.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #521-Police Firearms Range Improvements

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	140,000	0	0	0	0	0	0	0	0	140,000
General	Capital Transfer	0	0	0	0	0	20,000	0	0	0	0	20,000
	Total	0	140,000	0	0	0	20,000	0	0	0	0	160,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	140,000	Phase II: Resurfacing of existing lot (Pistol range), remove rotted awning and construct new awning.
		<u>\$140,000</u>	2017 Subtotal
2021	General Capital Transfer	20,000	Remove lead from berms, restore berms, replace range wall timbers as necessary.
		<u>\$20,000</u>	2021 Subtotal
	TOTAL	<u>\$160,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: INFORMATION TECHNOLOGY #525-Telephone System Replacement Program

I. PROJECT TYPE: Information Technology & Communications

II. LOCATION: All City Departments and Agencies

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	<input type="text" value="M"/> Safety	<input type="text" value="N/A"/> Facility Cond.	<input type="text" value="N/A"/> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<input type="text" value="L"/> Mandates	<input type="text" value="L"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="N/A"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="L"/> Timeliness	Long-Range Planning
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The City relies on telephone communications for Police, Fire and EMS dispatch and control as well as across all city functions. The components of the system are varied in age, condition and functionality. A telephone communications system, one capable of both voice and data transmissions will be needed to be compatible with current technology.

SERVICE IMPACT: Periodic replacement of the telephone system will ensure a reliable form of communications for emergency services, normal daily operations, customer service, and alarm systems.

IMPACT IF NOT FUNDED: Increased frequency and duration of equipment failure resulting in risk to public safety and inability to perform normal daily business.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2001

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

15

Expected Bond Term (in Years) 10

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: INFORMATION TECHNOLOGY #525-Telephone System Replacement Program

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Arena	Capital Transfer	0	3,000	0	0	0	0	0	0	0	0	3,000
General	G.O. Bonds	0	200,000	0	0	0	0	0	0	0	0	200,000
Golf	Capital Transfer	0	3,000	0	0	0	0	0	0	0	0	3,000
Parking	Capital Transfer	0	4,000	0	0	0	0	0	0	0	0	4,000
Sewer	Capital Transfer	0	20,000	0	0	0	0	0	0	0	0	20,000
Water	Capital Transfer	0	20,000	0	0	0	0	0	0	0	0	20,000
Total		0	250,000	0	0	0	0	0	0	0	0	250,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	200,000	Replacement of the Neax 2400 switch located at Police station (\$100,000); Replacement of the four offsite switches located at Hall St., Manor Fire station, Fire Dispatch, and General Services (\$100,000); and, Consultation for Design and replacement of telephone system (\$50,000).
	Water Capital Transfer	20,000	Water share.
	Sewer Capital Transfer	20,000	Sewer share.
	Parking Capital Transfer	4,000	Parking share.
	Golf Capital Transfer	3,000	Golf share.
	Arena Capital Transfer	3,000	Arena share.
		\$250,000	2017 Subtotal
TOTAL		\$250,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #527-Cardiac Monitor & AED Replacement Program

I. PROJECT TYPE: Public Safety

II. LOCATION: All City Ambulances, Police Vehicles & City Buildings.

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  L Safety  N/A Facility Cond.  L Productivity  
 Replace  L Mandates  H Service Def.  N/A Tax Base Exp.  N/A City Master Pl.  
 Rebuild  N/A O + M Costs  M Council Goals  M Timeliness  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The systematic replacement of the cardiac monitors and AED's used by the Fire Department, Police Department and in City Buildings.

SERVICE IMPACT: Cardiac Monitors and AED's provide are a critical life saving device.

IMPACT IF NOT FUNDED: Continued use of existing monitors and AED's would yield higher maintenance costs and less than optimal patient care.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2004 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	400,000	0	400,000
	Total	0	0	0	0	0	0	0	0	400,000	0	400,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2024	General G.O. Bonds	400,000	Replacement of the cardiac monitors used by the Fire Department on their Ambulances, as well as all AED's located in police cars and city buildings. Total of 53 AED units.
		\$400,000	2024 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	FIRE	#527-Cardiac Monitor & AED Replacement Program	
	TOTAL		\$400,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #528-Pocket Parks

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="H"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="M"/> Mandates	<input type="checkbox" value="L"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="L"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: This project provides funding for the routine repair or replacement of fully depreciated playground equipment in pocket parks throughout the City. As of April 2015, the City owned 4 pocket parks: Reed, Fletcher-Murphy, West Street, and William P. Thompson.

SERVICE IMPACT: Repair costs will decline and player satisfaction will increase.

IMPACT IF NOT FUNDED: Existing deficiencies will remain unchanged, repair costs will increase, and customer satisfaction will deteriorate.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	0	0	0	0	0	15,000	0	0	0	15,000
General	G.O. Bonds	0	0	0	0	0	0	185,000	0	0	0	185,000
	Total	0	0	0	0	0	0	200,000	0	0	0	200,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:            REC-GROUNDS    #528-Pocket Parks

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	150,000	Replace playground equipment in three pocket parks.
	General G.O. Bonds	35,000	Replace playground equipment at Reed Play Lot.
	General Capital Transfer	15,000	Crack seal and/or resurface basketball courts in three pocket parks.
		\$200,000	2022 Subtotal
	TOTAL	\$200,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #529-Capital Commons Parking Garage

I. PROJECT TYPE: Parking

II. LOCATION: 75 Storrs Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Safety  Facility Cond.  Productivity  
 Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness Parking  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this project is to provide for improvements to the Capital Commons Municipal Parking Garage. Proposed improvements include, but are not limited to, structural repairs, parking deck seal coating and waterproofing, repair of expansion joints and drainage improvements.

SERVICE IMPACT: Periodic maintenance will ensure that the facility is safe and attractive for patrons.

IMPACT IF NOT FUNDED: Deferred maintenance will result in more serious and expensive repairs in the future. Deterioration of parking structure which could result in loss of revenue due to decreased usage and prolonged closures necessitated by more serious repairs.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2011 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Parking	G.O. Bonds	0	0	0	0	0	0	0	0	0	235,000	235,000
Other	Tax Increment Financing	30,000	623,350	0	0	0	0	0	205,000	0	0	858,350
	Total	30,000	623,350	0	0	0	0	0	205,000	0	235,000	1,093,350

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #529-Capital Commons Parking Garage

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Other Tax Increment Financing	30,000	Masonry repairs to West Stair Tower, Red River Theatres vestibule, and plaza walls / steps.
		\$30,000	2016 Subtotal
2017	Other Tax Increment Financing	262,500	New Elevator.
	Other Tax Increment Financing	194,250	Waterproofing & deck sealing.
	Other Tax Increment Financing	84,000	Surveillance System Upgrade.
	Other Tax Increment Financing	82,600	Signage Improvements for Lease to Permit Program.
			Exterior Signage (Rebranding from Capital Commons to Storrs St Garage):
		\$623,350	2017 Subtotal
2023	Other Tax Increment Financing	205,000	Concrete Repairs (\$8,000)
			Waterproofing / Sealing: (\$175,000)
			Design / Oversight (\$20,000)
		\$205,000	2023 Subtotal
2025	Parking G.O. Bonds	235,000	Waterproofing / Deck Maintenance (\$23,500)
			Plumbing Improvements (\$190,000)
			Design / Admin (\$21,000)
		\$235,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$1,093,350</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #530-Golf Course Equipment

I. PROJECT TYPE: Golf

II. LOCATION: Beaver Meadow Golf Course

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="M"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Motor Vehicle Equipment
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to provide for periodic replacement of major pieces of golf course equipment.

SERVICE IMPACT: Routine replacement of fully depreciated equipment is beneficial as it shall allow grounds crews to use more reliable and efficient equipment to complete maintenance tasks, thereby helping to maximize available course time for players, in turn helping to maintain the best customer satisfaction possible with course availability and conditions.

IMPACT IF NOT FUNDED: Lack of reliable equipment could result in reduced quality of course conditions or increased inefficiency of maintenance operations, thereby resulting in player dissatisfaction and loss of market share and corresponding revenue.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Golf	Capital Outlay	0	25,000	45,000	0	25,000	30,000	0	0	0	0	125,000
Golf	G.O. Bonds	45,000	25,000	0	0	0	95,000	0	0	0	0	165,000
	Total	45,000	50,000	45,000	0	25,000	125,000	0	0	0	0	290,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #530-Golf Course Equipment

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Golf G.O. Bonds	45,000	Replace Rough Mower (\$15,000). Supplements FY2015 Appropriation (\$35,000). Additional funded to purchase larger machine capable of mowing wider swaths of property, thereby increasing efficiency. Replaces unit purchased in 2000 with 3,535.5 +/- hours (April 2015).
			Replace Utility Vehicle (\$30,000). Replaces 1998 unit with 17,101.5 +/- hours (April 2015)
		\$45,000	2016 Subtotal
2017	Golf Capital Outlay	25,000	Replace aerator.
	Golf G.O. Bonds	25,000	Replace Cushman utility vehicle.
		\$50,000	2017 Subtotal
2018	Golf Capital Outlay	45,000	Replace chemical sprayer.
		\$45,000	2018 Subtotal
2020	Golf Capital Outlay	25,000	Replace triplex mower.
		\$25,000	2020 Subtotal
2021	Golf G.O. Bonds	95,000	Replace fairway mower.
	Golf Capital Outlay	30,000	Replace 1980 bed knife grinder and reel grinder.
		\$125,000	2021 Subtotal
	<b>TOTAL</b>	<b>\$290,000</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #534-Tie Down Rehabilitation and Expansion

I. PROJECT TYPE: Airport

II. LOCATION: Municipal Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs

Facility Cond.  Service Def.  Council Goals

Productivity  Tax Base Exp.  Timeliness

City Master Pl.  Airport

DESCRIPTION: In 1990, the city constructed Phase I of the Based Aircraft Tie down Apron Expansion Project. This project created 56 tie downs for airport users to secure their planes. Currently the existing tie downs are 70% occupied.

This project will create an additional 32 tie down aprons on approximately 2 acres of land in a designated conservation zone. Therefore, development of this area will require an amendment to the agency agreement governing the conservation zones.

SERVICE IMPACT: Project will help implement the goals of the 2006 Airport Master Plan by providing additional capacity for general aviation users to be based at the airport.

IMPACT IF NOT FUNDED: Stagnant revenues and loss of market share to other regional general aviation airports such as Lebanon, Rochester, Laconia, and Nashua.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Airport	Capital Transfer	0	0	0	8,334	37,500	0	0	0	60,000	0	105,834
Other	State	0	0	0	8,334	37,500	0	0	0	60,000	0	105,834
Other	Federal	0	0	0	150,000	675,000	0	0	0	1,080,000	0	1,905,000
	Total	0	0	0	166,668	750,000	0	0	0	1,200,000	0	2,116,668

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #534-Tie Down Rehabilitation and Expansion

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Other Federal	150,000	Design reconstruction and expansion of tie-down area.
	Airport Capital Transfer	8,334	City share.
	Other State	8,334	State share.
		\$166,668	2019 Subtotal
2020	Other Federal	675,000	Construct approximately 2 acres of based airport tie down aprons. (Federal portion)
	Other State	37,500	Construct approximately 2 acres of based airport tie down aprons. (State portion)
	Airport Capital Transfer	37,500	Construct approximately 2 acres of based airport tie down aprons. (City portion)
		\$750,000	2020 Subtotal
2024	Other Federal	1,080,000	Reconstruct existing based airport tie down aprons. (Federal portion)
	Airport Capital Transfer	60,000	Reconstruct existing based airport tie down aprons. (City portion)
	Other State	60,000	Reconstruct existing based airport tie down aprons. (State portion)
		\$1,200,000	2024 Subtotal
	<b>TOTAL</b>	<b>\$2,116,668</b>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #541-Regional Drive/Chenell Drive Intersection Improvements

I. PROJECT TYPE: Intersections

II. LOCATION: Regional Drive and Chenell Drive

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Facility Cond.  Productivity

Mandates  Service Def.  Tax Base Exp.  City Master Pl.

O + M Costs  Council Goals  Timeliness  Intersection Improvement

DESCRIPTION: Following the completion of Regional Drive in 2005, traffic along the Regional Drive corridor continues to grow. As a result of continued development along Chenell Drive as well as development along the Regional Drive corridor, the Traffic Operations Committee has been monitoring traffic volumes, accident data and the frequency of pedestrian activities at critical intersections along the arterial corridor. In an effort to maintain acceptable levels of service and traffic safety, intersection improvements will be required.

SERVICE IMPACT: Improved vehicle safety and increased capacity along this designated arterial corridor.

IMPACT IF NOT FUNDED: Continued congestion, reduced levels of service, and traffic accidents at the intersection.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2012

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	425,000	425,000
General	Impact Fees Traf Dist 4	0	0	0	0	0	0	0	0	75,000	0	75,000
	Total	0	0	0	0	0	0	0	0	75,000	425,000	500,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #541-Regional Drive/Chenell Drive Intersection Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2024	General Impact Fees Traf Dist 4	75,000	Design of improvements to the intersection of Regional Drive and Chenell Drive.
		\$75,000	2024 Subtotal
2025	General G.O. Bonds	425,000	Construction of improvements to the intersection of Regional Drive and Chenell Drive.
		\$425,000	2025 Subtotal
	<b>TOTAL</b>	<b>\$500,000</b>	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #543-Merrimack River Greenway Trail Project

I. PROJECT TYPE: Sidewalks and Streetscapes

II. LOCATION: City-wide along Merrimack River Corridor

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> L	Safety	<input type="checkbox"/> N/A	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> N/A	Mandates	<input type="checkbox"/> L	Service Def.	<input type="checkbox"/> M	Tax Base Exp.	<input type="checkbox"/> M City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> M	O + M Costs	<input type="checkbox"/> M	Council Goals	<input type="checkbox"/> L	Timeliness	Sidewalks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: The Merrimack River Greenway Trail is envisioned as a continuous, off-street path, roughly following the Merrimack River connecting the eventual terminus of the Northern Rail Trail to the north and the proposed Salem to Concord Bikeway to the south. The path is intended to be a 4-season paved facility, to serve pedestrians, bicyclists, skiers, snowshoers and other non motorized users, and to be universally accessible to the maximum extent practical.

Included as a major project initiative in the comprehensive Bicycle Master Plan, the project is intended to serve both transportation and recreation purposes, connecting villages, providing access to the River and adjacent open space, providing safe and inviting health and fitness opportunities. The Path will provide river views and access when possible, and it will follow a somewhat north-south route to facilitate transportation use. It is consistent with the Concord 2030 Master Plan and Concord's Vision for 2020 by connecting neighborhoods and re-connecting Concord to the River.

This project is contingent upon raising significant funds from other non-City sources, such as grants from the State and Federal governments as well as donations from local interest groups and stakeholders.

SERVICE IMPACT: Improved recreational / transportation opportunities for non-motorized means. Increase in operations and maintenance budget due to resurfacing, sweeping and management of vegetation. As with the paths along I-89 and I-93, sweeping and trimming may be accomplished with volunteer efforts. Snow removal will not be necessary as this trail is to provide an opportunity for winter recreation / transportation.

IMPACT IF NOT FUNDED: Failure to meet key objectives set out in the Master Plan 2030, the Conservation Commission's Endowment for the 21st Century Conservation & Open Space Initiative, and Concord 2020 Vision principles. Options for walking and bicycling will be limited to street, sidewalks, or un-improved hiking trails, leaving a gap in outdoor recreation opportunities. Long distance trails arriving from the north and south will end at the Concord line with no through connection. Many connections between open spaces and recreational trails will not be met. An opportunity to help the city meet its goals to re-connect to the Merrimack River will be missed. An opportunity to diversify Concord's transportation system by adding green, healthy, non-motorized options will be missed.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25

Expected Bond Term (in Years)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #543-Merrimack River Greenway Trail Project

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	1,100,000	1,100,000
Other	State	0	0	0	0	0	0	1,600,000	0	0	8,800,000	10,400,000
General	Donations	0	0	0	0	0	0	400,000	0	0	1,100,000	1,500,000
	Total	0	0	0	0	0	0	2,000,000	0	0	11,000,000	13,000,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	Other State	1,600,000	Design and construction of Phase 1 of the Merrimack River Greenway Trail from Manchester Street to Loudon Road to be funded with a NHDOT Grant and donations.
			Design/Administration: \$300,000 Construction: \$1,500,000 Construction Engineering/Administration: \$200,000
	General Donations	400,000	Design and construction of Phase 1 of the MRGT. Donation portion (20%)
		<u>\$2,000,000</u>	2022 Subtotal
2025	Other State	8,800,000	Design and construction of Phase 2-8 of the MRGT. State portion (80%)
	General Donations	1,100,000	Design and construction of Phase 2-8 of the MRGT. Donation portion (10%)
	General G.O. Bonds	1,100,000	Design and construction of Phase 2-8 of the Merrimack River Greenway Trail to be funded with a TE Grants, donations and City funds. City portion of project (10%) assuming additional donations cannot cover the "match".
			Total estimated costs: \$11,000,000 (for the remaining 7 phases) Design/Administration: \$1,650,000 Construction: \$8,250,000 Construction Engineering/Administration: \$1,100,000
		<u>\$11,000,000</u>	2025 Subtotal
	TOTAL	<u>\$13,000,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #543-Merrimack River Greenway Trail Project

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #550-Roundabout Maintenance

I. PROJECT TYPE: Intersections

II. LOCATION: Liberty/Centre/Auburn and North State/Franklin Intersections

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="L"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="L"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="L"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="H"/> Timeliness	Intersection Improvement
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to provide funding for the periodic maintenance and structural repair of roundabouts throughout the City.

SERVICE IMPACT: Improved vehicle safety and ability to maintain traffic capacity along designated arterial and collector corridors.

IMPACT IF NOT FUNDED: Continued deterioration of major elements of the roundabouts with potential for reduced levels of service, and traffic accidents at the intersection.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2012 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	0	50,000	50,000	0	0	0	0	0	75,000	175,000
	Total	0	0	50,000	50,000	0	0	0	0	0	75,000	175,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General Capital Transfer	50,000	Major scheduled maintenance improvements to the Liberty/Auburn/Centre roundabout.
		<u>\$50,000</u>	2018 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CD-ENGINEERING SERVICES	#550-Roundabout Maintenance	
2019	General Capital Transfer	50,000	Major scheduled maintenance improvements to the North State/Franklin roundabout.
		\$50,000	2019 Subtotal
2025	General Capital Transfer	75,000	Major scheduled maintenance improvements to the Village/Washington roundabout.
		\$75,000	2025 Subtotal
	TOTAL	\$175,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #551-Library Maintenance

I. PROJECT TYPE: Public Buildings

II. LOCATION: Main Library and Penacook Branch Library

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  M Safety  L Facility Cond.  L Productivity  
 Replace  L Mandates  L Service Def.  N/A Tax Base Exp.  N/A City Master Pl.  
 Rebuild  N/A O + M Costs  L Council Goals  L Timeliness Public Facilities  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this project is to provide a maintenance plan for the City's Main Library and the Penacook Branch Library until such time as a new main library is constructed as further detailed in CIP 68 or a new branch library is constructed per CIP 508. Should either library project move forward, then the City may defer or forgo some maintenance projects discussed herein.

SERVICE IMPACT: Continued maintenance costs, customer complaints, and decreased staff morale. Potential liability associated with exposed / un-encapsulated lead paint.

IMPACT IF NOT FUNDED: Facilities may become unserviceable, occupant safety would be compromised. Buildings will continue to deteriorate. Water infiltration could damage / ruin portions of the library's collection. Employee morale will be negatively impacted.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years) 20

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	20,000	10,000	0	0	0	0	0	0	0	30,000
General	G.O. Bonds	230,000	50,000	75,000	60,000	70,000	125,000	80,000	130,000	30,000	100,000	950,000
	Total	230,000	70,000	85,000	60,000	70,000	125,000	80,000	130,000	30,000	100,000	980,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:           GS-PUBLIC PROPERTIES   #551-Library Maintenance

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	230,000	Roof repair / replacement (Green Street). Need for full replacement was discovered during repairs commenced in FY2015.
		\$230,000	2016 Subtotal
2017	General G.O. Bonds	50,000	Interior finish and carpet upgrades. (Green Street)
	General Capital Transfer	16,000	Refurbish front entry door and ornamental metal work. (Green Street)
	General Capital Transfer	4,000	Penacook Library fire escape repairs
		\$70,000	2017 Subtotal
2018	General G.O. Bonds	75,000	Penacook Library handicap ramp replacement
	General Capital Transfer	10,000	Penacook Library chimney repair
		\$85,000	2018 Subtotal
2019	General G.O. Bonds	30,000	HVAC improvements (Green Street)
	General G.O. Bonds	20,000	Ceiling tile upgrades. (Green Street)
	General G.O. Bonds	10,000	Doors & window & hardware upgrades. (Green Street)
		\$60,000	2019 Subtotal
2020	General G.O. Bonds	70,000	Bathroom renovations (Green Street)
		\$70,000	2020 Subtotal
2021	General G.O. Bonds	125,000	Roof replacement, Penacook Library.
		\$125,000	2021 Subtotal
2022	General G.O. Bonds	60,000	Interior finish and carpet upgrades. (Green Street)
	General G.O. Bonds	20,000	Door, window and hardware upgrades. (Green Street)

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-PUBLIC PROPERTIES	#551-Library Maintenance		
		\$80,000		2022 Subtotal
2023	General G.O. Bonds	100,000		Seal exterior granite (Green Street)
	General G.O. Bonds	30,000		Upgrades to the EMS control system
		\$130,000		2023 Subtotal
2024	General G.O. Bonds	30,000		Fire alarm system upgrades
		\$30,000		2024 Subtotal
2025	General G.O. Bonds	100,000		Refurbish HVAC system and controls.
		\$100,000		2025 Subtotal
	<b>TOTAL</b>	<b>\$980,000</b>		



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #555-Handgun Replacement

I. PROJECT TYPE: Public Safety

II. LOCATION: Police Department-35 Green St.

III. PROJECT OBJECTIVES AND BACKGROUND

NEED	<input type="checkbox"/> New	<input type="text" value="H"/> Safety	<input type="text" value="L"/> Facility Cond.	<input type="text" value="N/A"/> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<input type="text" value="L"/> Mandates	<input type="text" value="L"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="H"/> O + M Costs	<input type="text" value="L"/> Council Goals	<input type="text" value="M"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to provide funding for the routine replacement of Police Department handguns. The Department currently uses the Sig Sauer Model P229R as its primary handgun. The Department also has several P239 models. These have been in use since 2003. To assure reliability, the Department seeks to replace handguns after approximately 10-15 years of service.

SERVICE IMPACT: The Police Department seeks to carry a reliable handgun. Service weapons that are older tend to have additional maintenance problems. It is necessary to replace older models with newer models.

IMPACT IF NOT FUNDED: Reliability and safety is compromised.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	40,000	0	0	0	0	0	0	0	0	40,000
	Total	0	40,000	0	0	0	0	0	0	0	0	40,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: POLICE - OPERATIONS #555-Handgun Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General Capital Transfer	40,000	Handgun replacement (90 units). (Sig Sauer model P229R). It is likely that the Department would continue to use the Model 229R but will evaluate other options. The budget is based on purchasing new P229R's. Budget presumes trade-in of existing handguns for a credit of \$22,500.
		\$40,000	2017 Subtotal
	TOTAL	\$40,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #557-Memorial Field

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: South Fruit Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="L"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="M"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="H"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project is to provide funding for routine repair and replacement of infrastructure at Memorial Field.

SERVICE IMPACT: Improvements and restoration of facilities at the park shall maintain or increase the usability of the most heavily used athletic facilities in the City. Reduced maintenance costs will be realized.

IMPACT IF NOT FUNDED: Deferred maintenance will result in more significant, expensive repairs in the future. Obsolete facilities will result in decreased customer satisfaction and use of facility.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 15

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	1,135,000	120,000	0	175,000	0	0	0	0	0	1,430,000
General	Capital Transfer	21,000	0	0	0	0	0	0	0	0	0	21,000
	Total	21,000	1,135,000	120,000	0	175,000	0	0	0	0	0	1,451,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:            REC-GROUNDS    #557-Memorial Field

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General Capital Transfer	21,000	Replace seating and walkway boards at the football stadium - temporary interim repairs before bleacher replacement in 2017.
		\$21,000	2016 Subtotal
2017	General G.O. Bonds	790,000	Design and replace bleachers and press box for main football field.
	General G.O. Bonds	315,000	Replace and upgrade bleachers at baseball field.
	General G.O. Bonds	30,000	Reclaim and pave beneath selected bleacher sections as part of bleacher replacement.
		\$1,135,000	2017 Subtotal
2018	General G.O. Bonds	120,000	Resurface the track. Last resurfacing in 2008.
		\$120,000	2018 Subtotal
2020	General G.O. Bonds	175,000	Full depth reconstruction of 5 tennis courts.
		\$175,000	2020 Subtotal
	TOTAL	\$1,451,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #560-Fire Training Facility

I. PROJECT TYPE: Public Safety

II. LOCATION: Old Turnpike Road Landfill

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

M Safety  L Mandates  H O + M Costs

M Facility Cond.  L Service Def.  Council Goals

Productivity  N/A Tax Base Exp.  City Master Pl.  M Timeliness

DESCRIPTION: In 2005, the City completed a needs assessment of the existing Loudon Road training facility adjacent to the Everett Arena. This study recommended that the existing facility be abandoned due to variety of inadequacies, safety concerns, as well as conflicts with adjacent land uses (i.e. the Arena, Kiwanis Park, and the skate board park). The 2005 study also included a City wide search for a new facility and concluded that a new training grounds should be constructed at the City's Old Turnpike Road landfill site. As part of the FY 2009 budget, \$150,000 was provided for the design of a new fire training facility. Because of the use of in-house staff, the cost of design was reduced to \$40,000.

By relocating the training grounds from the Loudon Road / Everett Arena location, the City will be able to repurpose the Loudon Road site for expanded recreational opportunities.

SERVICE IMPACT: Project will provide a permanent dedicated facility for fire training, thereby maximizing opportunities for routine training of personnel. Routine training is important in order to maintain public safety.

IMPACT IF NOT FUNDED: Inability to provide effective training on an ongoing basis thus potentially negatively affecting daily operations.

Further skill deterioration and potential to place the stations out of service for a period of time when training at State facility.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	820,000	820,000
	Total	0	0	0	0	0	0	0	0	0	820,000	820,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: FIRE #560-Fire Training Facility

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	General G.O. Bonds	820,000	Construction of new Fire Training Grounds facility at the Old Turnpike Road Landfill.
		<u>\$820,000</u>	2025 Subtotal
	TOTAL	<u>\$820,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #561-Fire Alarm Infrastructure Replacement

I. PROJECT TYPE: Public Safety

II. LOCATION: Citywide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> H	Safety	<input type="checkbox"/> H	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> L	Mandates	<input type="checkbox"/> H	Service Def.	<input type="checkbox"/>	Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> N/A	O + M Costs	<input type="checkbox"/>	Council Goals	<input type="checkbox"/>	Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: Systematic replacement of fire alarm infrastructure. The existing fire alarm infrastructure ranges in age from new to over 50 years old. The typical service life for most of this equipment is 25-30 years. Increased O&M costs and more frequent failures have resulted due to lack of maintenance and replacement.

SERVICE IMPACT: Systematic replacement of components will ensure continued system reliability in the future thereby maintaining public safety.

IMPACT IF NOT FUNDED: Deferred maintenance could lead to periodic system failures.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years) 5

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	50,000	0	0	0	0	0	0	0	0	50,000
General	G.O. Bonds	32,000	45,000	40,000	50,000	50,000	50,000	0	0	0	0	267,000
	Total	32,000	95,000	40,000	50,000	50,000	50,000	0	0	0	0	317,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #561-Fire Alarm Infrastructure Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	32,000	Replace Digitize Equipment in Communications Center. This system receives and decodes the alarm signals received in the Communications Center.
		\$32,000	2016 Subtotal
2017	General G.O. Bonds	45,000	Replace failing fire alarm cabling along Airport Road
	General Capital Transfer	32,000	Phase II-Form Four Replacement
	General Capital Transfer	18,000	Phase I-Form Four Replacement
		\$95,000	2017 Subtotal
2018	General G.O. Bonds	40,000	Replace Uninterruptible Power Source System that was installed in 1996. This system is installed in the Communications Center and provide uninterrupted power in the event of a power outage.
		\$40,000	2018 Subtotal
2019	General G.O. Bonds	50,000	Replace Failing Fire Alarm Cabling
		\$50,000	2019 Subtotal
2020	General G.O. Bonds	50,000	Replace Failing Fire Alarm Cabling
		\$50,000	2020 Subtotal
2021	General G.O. Bonds	50,000	Replace Failing Fire Alarm Cabling
		\$50,000	2021 Subtotal
	TOTAL	\$317,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #563-Master Plan Update

I. PROJECT TYPE: Community Planning/Implementation

II. LOCATION: City-wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  City Master Pl.  Timeliness  Long-Range Planning

DESCRIPTION: The purpose of this project is to update the City Master Plan. State Law requires that a municipality's Master Plan be updated from "time to time". The commonly accepted planning horizon for a Master Plan is 10 years. Research and writing for the current Master Plan began in 2005, and the plan was adopted in 2008 after a lengthy public process.

SERVICE IMPACT: There have been incremental changes in zoning/land use and significant purchases of conservation land since the writing of the Master Plan. This, coupled with the state of the economy since 2008, makes it important to review the Master Plan recommendations, particularly for performance districts and density standards.

IMPACT IF NOT FUNDED: Poor long-range planning leads to haphazard development, which can result in the loss of land resources, missed economic development opportunities, as well as increased long-term costs to serve poorly planned development.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	100,000	0	0	0	0	0	100,000
	Total	0	0	0	0	100,000	0	0	0	0	0	100,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-COMMUNITY PLANNING #563-Master Plan Update

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	100,000	Placeholder for outside services to assist with updating the City's 2008 Master Plan.
		<u>\$100,000</u>	2020 Subtotal
	TOTAL	<u>\$100,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #567-Penacook Riverfront Park

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Tanner Street, Penacook

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity		
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.	
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	<input type="checkbox"/> Parks	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis					

DESCRIPTION: The purpose of this project is to program capital improvements for the Penacook Riverfront Park located on Tanner Street. Projects included herein include maintenance of the existing facility, as well as potential acquisition of abutting privately owned property for park expansion. Property comprising the park was assembled by the City from 1947 - 1982. The last major capital investment for the property occurred in the late 1980s.

Proposed capital improvements include acquisition of additional waterfront property, refurbishment of walkways, lighting, fencing, signage, and landscaping, and installation of a small playground. Improvements may also include a portage for kayaks and other non-motorized watercraft.

SERVICE IMPACT: Improvements will help revitalize an underutilized public park directly abutting the Contoocook River. In addition, public investment will serve as a catalyst for private investment in abutting properties.

IMPACT IF NOT FUNDED: The park will continue to deteriorate. Eventually, the facility will become an attractive nuisance and location for illicit activity. A poorly maintained facility will serve as a disincentive for private investment in abutting properties.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Donations	0	0	0	0	0	0	18,000	0	0	0	18,000
General	G.O. Bonds	0	0	0	0	0	0	165,000	0	0	0	165,000
	Total	0	0	0	0	0	0	183,000	0	0	0	183,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:            REC-GROUNDS    #567-Penacook Riverfront Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	80,000	Renovations of existing park, as well as improvements at newly acquired property. Improvements to include reconstruction of walkways, signage, and lighting, as well as installation of additional plantings. Ornamental safety fence will be extended onto newly acquired property.
	General G.O. Bonds	50,000	Park Improvements
	General G.O. Bonds	35,000	Acquisition of abutting private property, including due diligence and legal costs, as well as installation of improvements.
	General Donations	18,000	NH Charitable Foundation Grant share.
		\$183,000	2022 Subtotal
	TOTAL	\$183,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #569-Parks and Cemeteries Small Turf Equipment

I. PROJECT TYPE: Other Vehicles

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: This project establishes a long-range replacement plan for Parks and Recreation smaller turf equipment. Phased replacement of equipment will minimize potential service interruptions due to break downs / failures.

SERVICE IMPACT: Establishes long range replacement plan that improves service with more reliable equipment, lower costs due to multi-vehicle procurements and maintenance support. Supports appropriate reassignment of some serviceable equipment to less critical tasks instead of replacement.

IMPACT IF NOT FUNDED: Without routine investments, use of obsolete unreliable equipment will result in more frequent equipment failures leading to less productivity of staff and less efficient maintenance of facilities. Delayed acquisition of new equipment will lead to increased repair costs.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	51,000	45,000	53,000	41,000	11,000	19,000	49,000	53,000	0	0	322,000
	Total	51,000	45,000	53,000	41,000	11,000	19,000	49,000	53,000	0	0	322,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #569-Parks and Cemeteries Small Turf Equipment

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	21,000	Replace 2005 John Deere 4WD Tractor with 1,500 hours. (Parks)
	General G.O. Bonds	18,000	Replace 2004 John Deere "out front" mower with 3,600 hours. (Cemeteries)
	General G.O. Bonds	12,000	Replace 2004 turf over seeder. (Parks)
		\$51,000	2016 Subtotal
2017	General G.O. Bonds	24,000	Replace 2005 infield pro. (Parks)
	General G.O. Bonds	21,000	Replace 2004 John Deere 4WD Tractor with 1,100 +/- hours of use. (Parks)
		\$45,000	2017 Subtotal
2018	General G.O. Bonds	23,000	Replace 2004 John Deere mower with 72" deck with 2,300 hours of use. (Parks)
	General G.O. Bonds	21,000	Replace 2008 John Deere mower with 2,400 +/- hours of use. (Cemeteries)
	General G.O. Bonds	9,000	Replace two (2) 2004 front mounted leaf blower attachments. (Parks and Cemeteries)
		\$53,000	2018 Subtotal
2019	General G.O. Bonds	23,000	Replace infield pro; parks
	General G.O. Bonds	18,000	Replace out-front rotary; cemetery
		\$41,000	2019 Subtotal
2020	General G.O. Bonds	11,000	Replace deep tine aerator
		\$11,000	2020 Subtotal
2021	General G.O. Bonds	19,000	Replace sweeper; cemetery
		\$19,000	2021 Subtotal
2022	General G.O. Bonds	28,000	Replace small loader/backhoe; cemetery
	General G.O. Bonds	21,000	Replace out front rotary

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	REC-GROUNDS	#569-Parks and Cemeteries	Small Turf Equipment	
			\$49,000	2022 Subtotal
2023	General G.O. Bonds		35,000	Replace large area aerator; parks
	General G.O. Bonds		18,000	Replace out front rotary; cemetery
			\$53,000	2023 Subtotal
	TOTAL		\$322,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #570-Pleasant/Warren/Fruit Intersection Improvements

I. PROJECT TYPE: Intersections

II. LOCATION: Pleasant Street/Warren Street/Fruit Street Intersection

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  Timeliness  City Master Pl.  Intersection Improvement

DESCRIPTION: Following completion of a 2013 Engineering Study of the Pleasant/Warren/Fruit intersection, City Council accepted a report outlining improvement options and priorities. In order to maintain acceptable levels of service and traffic and pedestrian safety, staff recommended major intersection reconstruction at this critical location. Endorsed by both the Traffic Operations Committee and the Transportation Policy Advisory Committee, the project proposes a roundabout to replace the existing signalized intersection.

SERVICE IMPACT: Improved traffic level of service, capacity, and pedestrian and bike safety at this critical location.

IMPACT IF NOT FUNDED: Continued congestions, limited levels of service, increased traffic accidents, and pedestrian safety concerns.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2015 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	900,000	900,000
	Total	0	0	0	0	0	0	0	0	0	900,000	900,000



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #570-Pleasant/Warren/Fruit Intersection Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	General G.O. Bonds	900,000	Design and Construction of a Roundabout.
		\$900,000	2025 Subtotal
	TOTAL	\$900,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #571-I-393/Horseshoe Pond Drainage Improvements

I. PROJECT TYPE: Storm Sewer

II. LOCATION: I-393/North Main Street/Horseshoe Pond Drainage Area

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  Timeliness  City Master Pl.  Other

DESCRIPTION: Reoccurring flooding along the I-393 Corridor and North Main Street has resulted in private property damage. This project, in cooperation with NHDOT and NHDES shall replace affected drainage systems and provides storm water overflow capacity within the subject intersection.

SERVICE IMPACT: Provides long-term solution to drainage problem and eliminates ongoing property damage.

IMPACT IF NOT FUNDED: Without improvement, the drainage area will still be subject to intermittent flooding and property damage.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2015 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25 Expected Bond Term (in Years) 20

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	42,500*	0	0	0	0	0	0	0	0	0	42,500
Other	State	567,500*	0	0	0	0	0	0	0	0	0	567,500
	Total	610,000	0	0	0	0	0	0	0	0	0	610,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #571-I-393/Horseshoe Pond Drainage Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Other State	487,500	Construction of drainage improvements.
	Other State	60,000	Watershed Study for Horseshoe Pond Drainage. NHDES Share.
	General G.O. Bonds	42,500	Construction of drainage improvements. Supplements \$140,000 of City moneys appropriated in FY2015.
	Other State	20,000	Watershed Study for Horseshoe Pond Drainage. NHDOT Share.
		\$610,000	2016 Subtotal
	TOTAL	\$610,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #572-Airport Master Plan

I. PROJECT TYPE: Airport

II. LOCATION: Airport

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:

<input type="checkbox"/> New	<input type="text" value="N/A"/>	Safety	<input type="text" value="H"/>	Facility Cond.	<input type="text" value="L"/>	Productivity	
<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/>	Mandates	<input type="text" value="L"/>	Service Def.	<input type="text" value="M"/>	Tax Base Exp.	<input type="text" value="H"/> City Master Pl.
<input type="checkbox"/> Rebuild	<input type="text" value="N/A"/>	O + M Costs	<input type="text" value="M"/>	Council Goals	<input type="text" value="M"/>	Timeliness	Airport
<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: The current Airport Master Plan was last updated in 2006. Periodic updates are required every 10-20 years in order to plan future capital investments designed to keep the facility viable within the framework of the New England general aviation market.

SERVICE IMPACT: Recommendations will provide focused direction to the city for airport improvements and management structure.

IMPACT IF NOT FUNDED: Application of future Federal grants for airport improvements will be denied if Master Plan is not current.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

10

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Airport	Capital Transfer	0	0	0	0	10,554	0	0	0	0	0	10,554
Other	Federal	0	0	0	0	190,000	0	0	0	0	0	190,000
Other	State	0	0	0	0	10,554	0	0	0	0	0	10,554
	Total	0	0	0	0	211,108	0	0	0	0	0	211,108

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #572-Airport Master Plan

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	Other Federal	190,000	Airport Master Plan Update. Federal share
	Other State	10,554	Airport Master Plan Update. State share
	Airport Capital Transfer	10,554	Airport Master Plan Update. City share
		\$211,108	2020 Subtotal
	TOTAL	\$211,108	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #573-Fire Department Personnel Protective Equipment

I. PROJECT TYPE: Public Safety

II. LOCATION: All Stations

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="H"/> Facility Cond.	<input type="checkbox" value="M"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="M"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="L"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="L"/> O + M Costs	<input type="checkbox" value="L"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: This project entails the systematic replacement of protective clothing, gear, and equipment. Protective gear typically has a useful life of approximately 6 -10 years. Through a systematic, structured process the City can maintain an adequate reserve of protective clothing for replacement. CFD inspects its protective gear ensemble biannually and has identified several sets that need replacement. Repair costs are increasing on the oldest sets.

This project also includes systematic replacement of self contained personal breathing apparatus.

SERVICE IMPACT: By funding this project, the City will be able to ensure fire personnel are properly protected and outfitted to carry out fire fighting activities.

IMPACT IF NOT FUNDED: The City's ability to effectively and efficiently respond to fire calls will be reduced and costs of repairing gear will increase. Also, safety of department personnel could be compromised.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	750,000	750,000
General	Capital Transfer	20,000	20,000	20,000	22,000	22,000	22,000	24,000	24,000	24,000	0	198,000
	Total	20,000	20,000	20,000	22,000	22,000	22,000	24,000	24,000	24,000	750,000	948,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #573-Fire Department Personnel Protective Equipment

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General Capital Transfer	20,000	Systematic replacement of Firefighting protective clothing.
		<u>\$20,000</u>	2016 Subtotal
2017	General Capital Transfer	20,000	Systematic replacement of Firefighting protective clothing.
		<u>\$20,000</u>	2017 Subtotal
2018	General Capital Transfer	20,000	Systematic replacement of Firefighting protective clothing.
		<u>\$20,000</u>	2018 Subtotal
2019	General Capital Transfer	22,000	Protective Clothing Replacement
		<u>\$22,000</u>	2019 Subtotal
2020	General Capital Transfer	22,000	Protective Clothing Replacement
		<u>\$22,000</u>	2020 Subtotal
2021	General Capital Transfer	22,000	Protective Clothing Replacement
		<u>\$22,000</u>	2021 Subtotal
2022	General Capital Transfer	24,000	Protective Clothing Replacement
		<u>\$24,000</u>	2022 Subtotal
2023	General Capital Transfer	24,000	Protective Clothing Replacement
		<u>\$24,000</u>	2023 Subtotal
2024	General Capital Transfer	24,000	Protective Clothing Replacement
		<u>\$24,000</u>	2024 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	FIRE	#573-Fire Department Personnel Protective Equipment	
2025	General G.O. Bonds	750,000	Breathing apparatus replacement purchased in FY2015.
		\$750,000	2025 Subtotal
	TOTAL	\$948,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #574-Development Permitting Software

I. PROJECT TYPE: Information Technology & Communications

II. LOCATION: City Hall

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="text" value="L"/> Safety	<input type="text" value="N/A"/> Facility Cond.	<input type="text" value="M"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="text" value="L"/> Mandates	<input type="text" value="L"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp.	<input type="text" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="L"/> O + M Costs	<input type="text" value="N/A"/> Council Goals	<input type="text" value="M"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The current City permitting software, Permit Tracker, has been in place for over a decade and is showing limitations. It does not have the ability to handle contemporary expectations for online customer service uses. It's customization to Concord has also restricted its ability to grow with changes in technology. Technical support for the existing software is also tenuous as this service is solely dependent on one individual, the original programmer.

The Department has completed research into modern "off the shelf" software packages that would be dynamic enough to grow with the City's needs. This CIP would allow the Department to issue an Request for Proposals to acquire off-the-shelf software that can meet the existing and future needs of the Department and provide enhanced customer service options.

SERVICE IMPACT: Will provide a more dynamic software package to assist the City with permitting and inspection processes for new development and other construction related projects. New software will also allow for on-line integration for improved customer service.

IMPACT IF NOT FUNDED: Current software program is approximately 10 years old and was developed by a sole proprietor consultant. It is unclear how long the consultant will be able to continue to provide tech support for the existing software program. In addition, customer service will remain unchanged due to inability to adapt the current program for on-line use.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2004 PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years) 5

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	100,000	0	0	0	0	0	0	0	0	0	100,000
	Total	100,000	0	0	0	0	0	0	0	0	0	100,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-COMMUNITY PLANNING #574-Development Permitting Software

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	100,000	Acquire development permitting software.
		<u>\$100,000</u>	2016 Subtotal
	TOTAL	<u>\$100,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #575-Police Vehicle & Equipment Replacement

I. PROJECT TYPE: Other Vehicles

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="H"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="N/A"/> Mandates	<input type="checkbox" value="N/A"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="L"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this capital project is to provide funding for the routine replacement of Police Department vehicles (excluding parking enforcement vehicles which are addressed by a separate capital project). As of April 2014, the City had a total of 25 cruisers, command SUVs, and unmarked vehicles. Prior to FY2015, this item was carried within the City's operating budget.

SERVICE IMPACT: Maintaining a schedule for routine replacement of police department vehicles will ensure that a reliable fleet of modern cruisers and command vehicles exists to serve the community.

IMPACT IF NOT FUNDED: Typically, vehicles are used in the "marked" fleet for approximately 3 years, then transferred to the unmarked fleet for an additional 2 years of use. Without routine replacement, the department will be required to operate with older vehicles which are more susceptible to mechanical failures. This could result in increased maintenance expenses for the City.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years) 5

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	140,000	140,000	180,000	150,000	160,000	160,000	170,000	170,000	180,000	180,000	1,630,000
General	G.O. Bonds	25,000	25,000	0	0	0	0	0	0	0	0	50,000
	Total	165,000	165,000	180,000	150,000	160,000	160,000	170,000	170,000	180,000	180,000	1,680,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #575-Police Vehicle & Equipment Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General Capital Transfer	140,000	Replacement of 4 vehicles.
	General G.O. Bonds	25,000	Phase I: Cruiser light bar replacement. Replace 5 cruiser light bars.
		\$165,000	2016 Subtotal
2017	General Capital Transfer	140,000	Replacement of 4 vehicles.
	General G.O. Bonds	25,000	Phase II: Cruiser light bar replacement. Replace 5 cruiser light bars.
		\$165,000	2017 Subtotal
2018	General Capital Transfer	150,000	Replacement of 4 vehicles.
	General Capital Transfer	30,000	Phase III: Cruiser light bar replacement. Replace 6 cruiser light bars.
		\$180,000	2018 Subtotal
2019	General Capital Transfer	150,000	Replacement of 4 vehicles.
		\$150,000	2019 Subtotal
2020	General Capital Transfer	160,000	Replacement of 4 vehicles.
		\$160,000	2020 Subtotal
2021	General Capital Transfer	160,000	Replacement of 4 vehicles.
		\$160,000	2021 Subtotal
2022	General Capital Transfer	170,000	Replacement of 4 vehicles.
		\$170,000	2022 Subtotal
2023	General Capital Transfer	170,000	Replacement of 4 vehicles.
		\$170,000	2023 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	POLICE - OPERATIONS	#575-Police Vehicle & Equipment Replacement	
2024	General Capital Transfer	180,000	Replacement of 4 vehicles.
		\$180,000	2024 Subtotal
2025	General Capital Transfer	180,000	Replace 4 police cruisers.
		\$180,000	2025 Subtotal
	TOTAL	\$1,680,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #576-General Facility Repairs

I. PROJECT TYPE: Public Buildings

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Safety  Facility Cond.  Productivity  
 Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this capital project is to finance assorted small capital projects and maintenance activities at City owned buildings.

SERVICE IMPACT: Undertaking small capital projects helps to ensure appropriate maintenance of building systems, thereby helping to reduce long-term maintenance costs and extend the useful life of facilities.

IMPACT IF NOT FUNDED: Repair costs will increase and the functional life of building systems may be reduced, thereby requiring premature replacement at significant cost.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Capital Transfer	0	25,000	25,000	30,000	30,000	30,000	30,000	30,000	0	0	200,000
General	G.O. Bonds	74,425	0	0	0	0	0	0	0	0	0	74,425
	Total	74,425	25,000	25,000	30,000	30,000	30,000	30,000	30,000	0	0	274,425

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #576-General Facility Repairs

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	50,000	Fit-up portion of Green Street Community Center to accommodate Information Technology Department, as well as renovations to space within City Hall vacated by the IT Department to accommodate the Community Development Department Engineering Division and Human Resources Department.
	General G.O. Bonds	24,425	Replacement of Penacook Library Furnace (\$9,500) Refurbishment / Replacement of Bathroom Partitions at the COMF (\$4,900) Garage Door Repairs at the COMF (\$10,025)
		\$74,425	2016 Subtotal
2017	General Capital Transfer	25,000	Placeholder for future projects.
		\$25,000	2017 Subtotal
2018	General Capital Transfer	25,000	Placeholder for future projects.
		\$25,000	2018 Subtotal
2019	General Capital Transfer	30,000	Placeholder for future projects.
		\$30,000	2019 Subtotal
2020	General Capital Transfer	30,000	Placeholder for future projects.
		\$30,000	2020 Subtotal
2021	General Capital Transfer	30,000	Placeholder for future projects.
		\$30,000	2021 Subtotal
2022	General Capital Transfer	30,000	Placeholder for future projects.
		\$30,000	2022 Subtotal
2023	General Capital Transfer	30,000	Placeholder for future projects.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-PUBLIC PROPERTIES	#576-General Facility Repairs	
		\$30,000	2023 Subtotal
	TOTAL	\$274,425	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #579-Bicentennial Square

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Bicentennial Square

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Safety  Facility Cond.  Productivity  
 Replace  Mandates  Service Def.  Tax Base Exp.  City Master Pl.  
 Rebuild  O + M Costs  Council Goals  Timeliness  
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this project is to fund routine repair / refurbishment of the Bicentennial Square fountain.

SERVICE IMPACT: Routine maintenance and refurbishment will minimize unanticipated costly emergency repairs and extend useful life of this asset.

IMPACT IF NOT FUNDED: Lack of maintenance will result in more expensive repairs and may, in the extreme, necessitate the premature full replacement of this asset. Lack of maintenance may also result in prolonged periods that the fountain is inoperable, thereby resulting in loss of public enjoyment.

IV. PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	25,000	0	0	0	0	0	0	25,000
	Total	0	0	0	25,000	0	0	0	0	0	0	25,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	25,000	Repairs to the fountain at Bicentennial Square.
		\$25,000	2019 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-PUBLIC PROPERTIES	#579-Bicentennial Square
TOTAL		\$25,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: GS-HIGHWAY / UTILITIES #580-Snow Disposal Area

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Old Turnpike Road Landfill

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity
	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

DESCRIPTION: Creation of a snow dump to provide disposal of collected snow during removal operations. Downtown removals, compact areas and bridge crossings.

SERVICE IMPACT: Lack of a disposal site would prevent the scheduled removal of snow from the downtown impacting the economic vitality of the downtown shopping area. Compact areas would become impassable causing life safety concerns.

IMPACT IF NOT FUNDED: Travel impacted. Safety services impacted. Life safety concerns.

IV. PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	110,000	0	0	0	0	0	0	0	0	0	110,000
	Total	110,000	0	0	0	0	0	0	0	0	0	110,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	General G.O. Bonds	110,000	Construction of a snow disposal area at the Old Turnpike Road Landfill. Portion of the work to be performed by City staff and equipment.
		\$110,000	2016 Subtotal

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	GS-HIGHWAY / UTILITIES	#580-Snow Disposal Area
	TOTAL	\$110,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #582-Manor Road/Abbott Road Roundabout Intersection Improvement Project

I. PROJECT TYPE: Intersections

II. LOCATION: Manor Road/Abbott Road Intersection

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="L"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="H"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

City Master Pl.  
Intersection Improvement

DESCRIPTION: Design and construction of a traffic roundabout and limited roadway improvements to improve traffic flow, reduce accidents, and improve pedestrian safety at the intersection.

This project was designed in conjunction with the Oxbow Bluff residential development project to mitigate development traffic impacts. Engineering considered this location critical and determined this project to be the best long-term solution for the neighborhood.

SERVICE IMPACT: Improved traffic/pedestrian circulation and safety.

IMPACT IF NOT FUNDED: Difficult roadway geometry does not address vehicle and pedestrian safety concerns at the intersection.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2008

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	Donations	0	0	450,000	0	0	0	0	0	0	0	450,000
	Total	0	0	450,000	0	0	0	0	0	0	0	450,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: CD-ENGINEERING SERVICES #582-Manor Road/Abbott Road Roundabout Intersection Improvement Project

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General Donations	450,000	Design and construct traffic roundabout funded by private development.
		<u>\$450,000</u>	2018 Subtotal
	TOTAL	<u>\$450,000</u>	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: FIRE #583-East Concord Fire Station

I. PROJECT TYPE: Public Buildings

II. LOCATION: Location to be determined from study

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:  New  Replace  Rebuild  Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

Safety  Mandates  O + M Costs  Facility Cond.  Service Def.  Council Goals  Productivity  Tax Base Exp.  City Master Pl.  Timeliness  Long-Range Planning

DESCRIPTION: Design and construction of new East Concord Fire Station based on location study and needs assessment to be completed as part of CIP 252.

SERVICE IMPACT: If deemed necessary the location study and needs assessment, a new station serving East Concord and, potentially the Heights neighborhood, would provide for improved fire service to the easterly portions of the City, as well as put the City on a better footing to address the needs of potential future population growth in East Concord.

IMPACT IF NOT FUNDED:

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 50

Expected Bond Term (in Years) 20

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	5,000,000	0	5,000,000
	Total	0	0	0	0	0	0	0	0	5,000,000	0	5,000,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT: FIRE #583-East Concord Fire Station

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2024	General G.O. Bonds	5,000,000	Placeholder: Construct and furnish a new fire station in East Concord pending outcome of needs assessment and location studies. New building and furnishings only.
		\$5,000,000	2024 Subtotal
	TOTAL	\$5,000,000	



**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #584-Replacement of CAT Transit Bus Vehicles

I. PROJECT TYPE: Other Vehicles

II. LOCATION: City-wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="H"/> Facility Cond.	<input type="checkbox" value="L"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="N/A"/> Tax Base Exp.	<input type="checkbox" value="L"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> O + M Costs	<input type="checkbox" value="L"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Motor Vehicle Equipment
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Since 1989, Concord Area Transit (CAT), through the Community Action Program of Belknap-Merrimack Counties, has provided uninterrupted transit services to the residents of Concord. The service is open to all transportation needs, including seniors and those with disabilities.

CAT maintains a fleet of 13 vehicles including buses and vans to provide fixed route, complimentary para-transit, and senior transit services. Of that fleet, 3 vehicles support CAT's fixed route system. The existing fixed route fleet were placed in service in 2003 and are scheduled for replacement beginning in 2015. Since CAT's inception in 1989, the City of Concord has always supported a portion of the capital replacement match required to support the fixed route fleet

SERVICE IMPACT: Without replacement of transit vehicles, existing vehicles will require extensive repairs and will no longer be cost-effective or sustainable to operate.

IMPACT IF NOT FUNDED: Replacement of vehicles is mandated by Federal Transit Administration (FTA) and NHDOT. If not funded, those mandates will not be met.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2016

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 12

Expected Bond Term (in Years) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	30,000*	30,000	30,000	0	0	0	0	0	0	0	90,000
Other	Federal	240,000*	240,000	240,000	0	0	0	0	0	0	0	720,000
Other	State	30,000*	30,000	30,000	0	0	0	0	0	0	0	90,000
	Total	300,000	300,000	300,000	0	0	0	0	0	0	0	900,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #584-Replacement of CAT Transit Bus Vehicles

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Other Federal	240,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. FTA grant portion (80%).
	General G.O. Bonds	30,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. City portion (10%).
	Other State	30,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. State portion (10%).
		\$300,000	2016 Subtotal
2017	Other Federal	240,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. FTA grant portion (80%).
	General G.O. Bonds	30,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. City portion (10%).
	Other State	30,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. State portion (10%).
		\$300,000	2017 Subtotal
2018	Other Federal	240,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. FTA grant portion (80%).
	Other State	30,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. State portion (10%).
	General G.O. Bonds	30,000	Replacement of one (1) of three (3) transit bus vehicles for fixed route service. City portion (10%).
		\$300,000	2018 Subtotal
	TOTAL	\$900,000	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #586-Parking Meters

I. PROJECT TYPE: Parking

II. LOCATION: Downtown Central Business District & Surrounding Neighborhoods

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="text" value="N/A"/> Safety	<input type="text" value="H"/> Facility Cond.	<input type="text" value="H"/> Productivity
	<input checked="" type="checkbox"/> Replace	<input type="text" value="N/A"/> Mandates	<input type="text" value="H"/> Service Def.	<input type="text" value="N/A"/> Tax Base Exp. <input type="text" value="H"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="L"/> O + M Costs	<input type="text" value="H"/> Council Goals	<input type="text" value="H"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

DESCRIPTION: The purpose of this project is to provide funding to repair, replace, or expand the City's network of parking meters. As of April 2015, the City had a total of 80 Cale Kiosk Units and 353 single space mechanical meter heads in service which supported approximately 820 on-street parking spaces.

SERVICE IMPACT: Routine repair or replacement of parking meters is critical in order to insure that the City maintains customer satisfaction and "user friendliness" for the parking system while, simultaneously, not losing opportunities to generate revenue for the parking system. Periodic expansion of the meter network is also important to appropriately manage the parking system, as well as generate new revenues to help keep the system financially solvent in the long-term.

IMPACT IF NOT FUNDED: Equipment will become increasingly unreliable. Mechanical failures will result in decreased meter revenues and increased customer frustration.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
Parking	Capital Transfer	51,600	25,000	25,000	30,000	30,000	0	30,000	30,000	35,000	40,000	296,600
Parking	G.O. Bonds	0	0	0	0	0	775,000	0	0	0	0	775,000
	Total	51,600	25,000	25,000	30,000	30,000	775,000	30,000	30,000	35,000	40,000	1,071,600

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #586-Parking Meters

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2016	Parking Capital Transfer	36,000	Purchase 4 additional Cale Kiosk Units for the Complete Streets Project.
	Parking Capital Transfer	9,240	Purchase heaters for 24 Cale Kiosk Units as part of Complete Streets Projects to improve cold weather operability.
	Parking Capital Transfer	6,360	Purchase conversion kits for 24 Cale Kiosk Units to allow for conversion from solar battery to hard wired power supply as part of the Complete Streets Project.
		\$51,600	2016 Subtotal
2017	Parking Capital Transfer	25,000	Meter repairs / replacement.
		\$25,000	2017 Subtotal
2018	Parking Capital Transfer	25,000	Meter repairs / replacement.
		\$25,000	2018 Subtotal
2019	Parking Capital Transfer	30,000	Meter repairs / replacement.
		\$30,000	2019 Subtotal
2020	Parking Capital Transfer	30,000	Meter repairs / replacement.
		\$30,000	2020 Subtotal
2021	Parking G.O. Bonds	775,000	Replacement of Cale Kiosks & Mechanical Meters with Smart Meters or other new technology. Assumes 750 metered spaces.
		\$775,000	2021 Subtotal
2022	Parking Capital Transfer	30,000	Meter repairs / replacement.
		\$30,000	2022 Subtotal
2023	Parking Capital Transfer	30,000	Meter repairs / replacement.

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

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PROJECT:	CITY MANAGER /OPERATION	#586-Parking Meters	
		\$30,000	2023 Subtotal
2024	Parking Capital Transfer	35,000	Meter repairs / replacement.
		\$35,000	2024 Subtotal
2025	Parking Capital Transfer	40,000	Meter repairs / replacement.
		\$40,000	2025 Subtotal
	TOTAL	\$1,071,600	

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT: REC-GROUNDS #587-Cemetery Improvements

I. PROJECT TYPE: Cemeteries

II. LOCATION: City Cemeteries

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<input type="checkbox"/> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	<input type="checkbox"/> Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Blossom Hill Cemetery requires renovation of infrastructure and expansion of facilities to support future use, including development of columbariums. Many of the cemetery streets need repaving as identified in a pavement management study. In addition, the purchase of land for future cemetery use is planned. Installation of another columbarium at Blossom Hill Cemetery is planned in out years, pending market demand. A fireproof record storage room is planned in future out years as well. With the inclusion of the Old North Cemetery on the National Historic Register the potential for grants becomes more feasible.

SERVICE IMPACT: Sections of the existing cemetery roadway network are seriously deteriorated thereby making winter maintenance difficult. In addition, the supply of traditional cemetery plots is dwindling in most facilities, thereby creating demand for expansion. The need for expansion will increase with the aging of the "baby boom" generation. Columbaria will provide families with options for the memorialization of cremated remains and they will extend the availability of cemetery land. Fireproof record storage will provide safe record retention.

IMPACT IF NOT FUNDED: Road deterioration will continue thereby necessitating more expensive repairs in the future. Interments in cemetery will decline in number and lot revenues will cease. Customers will be deprived of choice. Records could be destroyed by fire.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10 Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Ten Years
General	G.O. Bonds	0	65,000	40,000	70,000	0	100,000	35,000	0	150,000	0	460,000
	Total	0	65,000	40,000	70,000	0	100,000	35,000	0	150,000	0	460,000

**2016-2025  
CAPITAL IMPROVEMENT  
PROJECT DETAIL**

PROJECT:            REC-GROUNDS    #587-Cemetery Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2017	General G.O. Bonds	25,000	Paving select roads in Maple Grove Cemetery
	General G.O. Bonds	40,000	Paving select roads in Blossom Hill Cemetery
		\$65,000	2017 Subtotal
2018	General G.O. Bonds	40,000	Paving select roads in Blossom Hill Cemetery
		\$40,000	2018 Subtotal
2019	General G.O. Bonds	70,000	Paving select roads Pine Grove East Concord
		\$70,000	2019 Subtotal
2021	General G.O. Bonds	100,000	Create/Build fire proof room for record storage.
		\$100,000	2021 Subtotal
2022	General G.O. Bonds	35,000	Purchase Columbarium at Blossom Hill Cemetery
		\$35,000	2022 Subtotal
2024	General G.O. Bonds	150,000	Purchase land for use as new cemetery.
		\$150,000	2024 Subtotal
	TOTAL	\$460,000	