

**2018-2027
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 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 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 type="checkbox"/> Rebuild	<input type="checkbox" value="L"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="L"/> Timeliness	Parks
	<input checked="" type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The focus of the Capital Project 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 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 replacement 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): 5

Expected Bond Term (in Years) 5

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Sewer	Capital Transfer	17,250	27,750	18,750	15,625	17,250	27,750	18,750	15,625	17,250	27,750	203,750
Water	Capital Transfer	17,250	27,750	18,750	15,625	17,250	27,750	18,750	15,625	17,250	27,750	203,750
General	Capital Transfer	183,500	166,500	112,500	143,750	183,500	166,500	112,500	143,750	183,500	166,500	1,562,500
	Total	218,000	222,000	150,000	175,000	218,000	222,000	150,000	175,000	218,000	222,000	1,970,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General Capital Transfer	183,500	Replace Hardware, computers, laptops, monitors (\$98,000). Replace end-of-life servers (\$20,000). Printers (\$10,000). Software upgrades (10,000). Replace Police Department mobile computers (\$80,000).
	Sewer Capital Transfer	17,250	Sewer share of above.
	Water Capital Transfer	17,250	Water share of above.
		<u>\$218,000</u>	2018 Subtotal
2019	General Capital Transfer	166,500	Replace hardware, computers, laptops, monitors (\$70,000). Replace end-of-life servers (\$20,000). Training for current and new employees, (\$20,000). Printers (\$10,000). Software upgrades (\$100,000).
	Sewer Capital Transfer	27,750	Sewer share of above.
	Water Capital Transfer	27,750	Water share of above.
		<u>\$222,000</u>	2019 Subtotal
2020	General Capital Transfer	112,500	Replace hardware, computers, laptops, monitors (\$100,000). Replace end-of-life servers (\$20,000). Printers (\$10,000). Software upgrades (\$20,000).
	Water Capital Transfer	18,750	Water share of above.
	Sewer Capital Transfer	18,750	Sewer share of above.
		<u>\$150,000</u>	2020 Subtotal
2021	General Capital Transfer	143,750	Replace hardware, computers, laptops, monitors (\$50,000). Replace 1/5 end-of-life servers (\$20,000). Printers (\$10,000). Software upgrades (\$30,000). Replace Fire Department apparatus mobile computers (\$60,000).

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
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PROJECT DETAIL**

PROJECT:	INFORMATION TECHNOLOGY	#2-Information Technology Hardware & Software Replacement	
	Water Capital Transfer	15,625	Water share of above.
	Sewer Capital Transfer	15,625	Sewer share of above.
		\$175,000	2021 Subtotal
2022	General Capital Transfer	183,500	Replace Hardware, computers, laptops, monitors (\$98,000). Replace end-of-life servers (\$20,000). Printers (\$10,000). Software upgrades (10,000). Replace Police Department mobile computers (\$80,000).
	Water Capital Transfer	17,250	Water share of above.
	Sewer Capital Transfer	17,250	Sewer share of above.
		\$218,000	2022 Subtotal
2023	General Capital Transfer	166,500	Replace hardware, computers, laptops, monitors (\$70,000). Replace end-of-life servers (\$20,000). Training for current and new employees, (\$20,000). Printers (\$10,000). Software upgrades (\$100,000).
	Water Capital Transfer	27,750	Water share of above.
	Sewer Capital Transfer	27,750	Sewer share of above.
		\$222,000	2023 Subtotal
2024	General Capital Transfer	112,500	Replace hardware, computers, laptops, monitors (\$100,000). Replace end-of-life servers (\$20,000). Printers (\$10,000). Software upgrades (\$20,000).
	Sewer Capital Transfer	18,750	Sewer share of above.
	Water Capital Transfer	18,750	Water share of above.
		\$150,000	2024 Subtotal
2025	General Capital Transfer	143,750	Replace hardware, computers, laptops, monitors (\$50,000). Replace 1/5 end-of-life servers (\$20,000). Printers (\$10,000). Software upgrades (\$30,000). Replace Fire Department apparatus mobile computers (\$60,000).
	Sewer Capital Transfer	15,625	Sewer share of above.
	Water Capital Transfer	15,625	Water share of above.
		\$175,000	2025 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	INFORMATION TECHNOLOGY		#2-Information Technology Hardware & Software Replacement
2026	General Capital Transfer	183,500	Replace Hardware, computers, laptops, monitors (\$98,000). Replace end-of-life servers (\$20,000). Printers (\$10,000). Software upgrades (10,000). Replace Police Department mobile computers (\$80,000).
	Water Capital Transfer	17,250	Water share.
	Sewer Capital Transfer	17,250	Sewer share.
		\$218,000	2026 Subtotal
2027	General Capital Transfer	166,500	Replace hardware, computers, laptops, monitors (\$70,000). Replace end-of-life servers (\$20,000). Training for current and new employees, (\$20,000). Printers (\$10,000). Software upgrades (\$100,000).
	Water Capital Transfer	27,750	Water share of above.
	Sewer Capital Transfer	27,750	Sewer share of above.
		\$222,000	2027 Subtotal
	TOTAL	\$1,970,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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 December 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). Generally kept for 20 years of service. 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).

Utility Truck: Pick-up truck assigned to Central Station (Kept for approximately 10 years).

Fire Alarm Division: 1 pickup truck, 1 bucket truck. (Kept for approximately 10 years each).

Staff Vehicles:
 Chief (1)
 Deputy Chief (2)
 Training Captain (1)
 EMS Captain (1)
 Fire Marshal (1)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #4-Fire Department Vehicle Replacement
Asst. Fire Marshal (1)
Battalion Chiefs (2)
Unassigned / floater (1)

SERVICE IMPACT: Routine replacement of vehicles is necessary in order to provide reliable fire and emergency 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. Increased operating and maintenance costs for older equipment.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	570,000	605,000	490,000	350,000	625,000	1,775,000	700,000	800,000	1,335,000	1,215,000	8,465,000
	Total	570,000	605,000	490,000	350,000	625,000	1,775,000	700,000	800,000	1,335,000	1,215,000	8,465,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	245,000	Replace Ambulance 4
	General G.O. Bonds	245,000	Replace Ambulance 5
	General G.O. Bonds	80,000	Replace 2 Staff Vehicles
		\$570,000	2018 Subtotal
2019	General G.O. Bonds	250,000	Ambulance 7 Replacement
	General G.O. Bonds	160,000	Replace Forestry Units 5 & 7 (2008)
	General G.O. Bonds	135,000	Replace 3- 2013 Staff Cars
	General G.O. Bonds	60,000	Replace Command Vehicle

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	FIRE #4-Fire Department Vehicle Replacement		\$605,000	2019 Subtotal
2020	General G.O. Bonds	450,000		Replacement Tanker Truck
	General G.O. Bonds	40,000		Purchase and equip off road utility type vehicle for fire and EMS coverage on city trail system, wooded areas and for special event coverage.
		\$490,000		2020 Subtotal
2021	General G.O. Bonds	150,000		Fire Alarm Bucket Truck Replacement (2008)
	General G.O. Bonds	100,000		Replace 2 Staff Vehicles
	General G.O. Bonds	55,000		Replace Car 8 (2011)
	General G.O. Bonds	45,000		Replace Fire Alarm Pick-Up (2012)
		\$350,000		2021 Subtotal
2022	General G.O. Bonds	275,000		Replace Ambulance 4
	General G.O. Bonds	275,000		Replace Ambulance 5
	General G.O. Bonds	75,000		Replacement of Command Car
		\$625,000		2022 Subtotal
2023	General G.O. Bonds	1,500,000		Replace Ladder Truck
	General G.O. Bonds	275,000		Ambulance 7 Replacement
		\$1,775,000		2023 Subtotal
2024	General G.O. Bonds	700,000		Replace Engine 4
		\$700,000		2024 Subtotal
2025	General G.O. Bonds	700,000		Replace Rescue 1 (2006)
	General G.O. Bonds	50,000		Replace Chief's Car (2017)
	General G.O. Bonds	50,000		Replace Fire Prevention Vehicle (2017)
		\$800,000		2025 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	FIRE	#4-Fire Department Vehicle Replacement	
2026	General G.O. Bonds	700,000	Replace Engine 5 (2016)
	General G.O. Bonds	560,000	Replace Ambulances 4 & 5
	General G.O. Bonds	75,000	Replacement of Command Car
		\$1,335,000	2026 Subtotal
2027	General G.O. Bonds	725,000	Replace Engine 7 (2017)
	General G.O. Bonds	280,000	Replacement of Ambulance 7
	General G.O. Bonds	150,000	Replacement of 3 Staff Vehicles
	General G.O. Bonds	60,000	Replacement of Utility Truck
		\$1,215,000	2027 Subtotal
	TOTAL	\$8,465,000	

**2018-2027
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"/> 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"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Donations	0	0	16,500	0	0	0	0	0	0	0	16,500
General	G.O. Bonds	0	0	233,500	0	225,000	0	250,000	0	275,000	0	983,500
	Total	0	0	250,000	0	225,000	0	250,000	0	275,000	0	1,000,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	200,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
	General G.O. Bonds	33,500	Sidewalk Improvements. Westbourne Rd. in front of Concord High School. Project to be completed in conjunction with Concord School District.
	General Donations	16,500	Sidewalk Improvements. Westbourne Rd. in front of Concord High School. Concord School District's share of project funds.
		\$250,000	2020 Subtotal
2022	General G.O. Bonds	225,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
		\$225,000	2022 Subtotal
2024	General G.O. Bonds	250,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
		\$250,000	2024 Subtotal
2026	General G.O. Bonds	275,000	Sidewalk Improvements. Program to be coordinated with CIP 78 "Neighborhood Road Improvement Program".
		\$275,000	2026 Subtotal
	TOTAL	\$1,000,000	

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	Tax Increment Financing	0	0	6,000,000	0	0	0	0	0	0	0	6,000,000
General	G.O. Bonds	0	0	0	0	0	0	250,000	2,500,000	0	0	2,750,000
	Total	0	0	6,000,000	0	0	0	250,000	2,500,000	0	0	8,750,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	Other Tax Increment Financing	6,000,000	Storrs Street Extension North final design and 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 once design is completed. NEOCTIF G.O. Bonds. Water main improvements to support project are included in CIP 91. Potential improvements to the Storrs Street / North Main Street intersection, which is outside of the NEOCTIF District, are included in CIP 283.
		\$6,000,000	2020 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
	TOTAL	\$8,750,000	

**2018-2027
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"/> 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: 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Donations	0	0	0	0	0	0	0	2,050,000	0	0	2,050,000
General	Impact Fees Traf Dist 1	0	0	0	0	0	0	0	200,000	0	0	200,000
	Total	0	0	0	0	0	0	0	2,250,000	0	0	2,250,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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" value="M"/> M	Safety	<input type="checkbox" value="L"/> L	Facility Cond.	<input type="checkbox" value="N/A"/> N/A	Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> L	Mandates	<input type="checkbox" value="L"/> L	Service Def.	<input type="checkbox" value="N/A"/> N/A	Tax Base Exp.	<input type="checkbox" value="M"/> M City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="L"/> L	O + M Costs	<input type="checkbox" value="L"/> L	Council Goals	<input type="checkbox" value="L"/> 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	1,125,000	0	1,125,000
General	Impact Fees Traf Dist 3	0	0	0	0	0	0	0	150,000	0	0	150,000
	Total	0	0	0	0	0	0	0	150,000	1,125,000	0	1,275,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	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	2025 Subtotal
2026	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	2026 Subtotal
	TOTAL	\$1,275,000	

**2018-2027
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: 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: The purpose of this project is to study and potentially implement improvements at the North Main Street and Storrs Street intersection. Traffic studies, design, and potential construction of improvements shall be coordinated with CIP 18 Storrs Street Extension North.

SERVICE IMPACT: Increase level of service and reduce delays for south bound, left turn movements from Storrs Street.

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)

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	250,000	0	0	0	0	0	0	0	250,000
	Total	0	0	250,000	0	0	0	0	0	0	0	250,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	250,000	Final design and construction of intersection improvements. To be coordinated with CIP #18 "Storrs Street North" project.
		\$250,000	2020 Subtotal
TOTAL		\$250,000	

**2018-2027
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" 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="H"/> 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="H"/> Council Goals	<input type="checkbox" value="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.

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	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
2022	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 Garvins 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	2022 Subtotal
	TOTAL	\$3,830,000	

**2018-2027
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" value="H"/> Safety	<input type="checkbox" value="N/A"/> 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 type="checkbox" value="N"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="M"/> O + M Costs	<input type="checkbox" value="M"/> 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 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)

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #40-Langley Parkway

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Donations	0	350,000	2,860,400	0	0	0	0	0	0	0	3,210,400
General	G.O. Bonds	0	350,000	2,860,400	6,795,000	0	0	0	0	0	0	10,005,400
	Total	0	700,000	5,720,800	6,795,000	0	0	0	0	0	0	13,215,800

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General Donations	350,000	Private contribution portion of project (1/2).
	General G.O. Bonds	350,000	Final design, permitting and right-of-way easement acquisition for Phase III construction. City portion of project (1/2).
		\$700,000	2019 Subtotal
2020	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	2020 Subtotal
2021	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	2021 Subtotal
	TOTAL	\$13,215,800	

**2018-2027
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	<input checked="" type="checkbox"/> New	<input type="checkbox"/> M	Safety	<input type="checkbox"/> L	Facility Cond.	<input type="checkbox"/> N/A	Productivity	
SERVED:	<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: The purpose of this project is to make routine capital investments to repair or replace infrastructure at White Park.

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 2016 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: Facilities will deteriorate thereby 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #51-White Park

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	100,000*	30,000	60,000	125,000	125,000	0	0	0	0	0	440,000
General	Capital Transfer	0	0	0	0	0	0	0	0	10,000	0	10,000
General	Donations	100,000*	0	0	0	0	0	0	0	0	0	100,000
	Total	200,000	30,000	60,000	125,000	125,000	0	0	0	10,000	0	550,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	100,000	Replace Monkey Around Playground. City share.
	General Donations	100,000	Replace Monkey Around Playground. Donation share.
		<u>\$200,000</u>	2018 Subtotal
2019	General G.O. Bonds	30,000	Replace basketball / hockey lights with energy efficient units.
		<u>\$30,000</u>	2019 Subtotal
2020	General G.O. Bonds	60,000	Full depth reconstruction of basketball court.
		<u>\$60,000</u>	2020 Subtotal
2021	General G.O. Bonds	125,000	Phase I of perimeter ornamental fence replacement.
		<u>\$125,000</u>	2021 Subtotal
2022	General G.O. Bonds	125,000	Phase II of perimeter ornamental fence replacement.
		<u>\$125,000</u>	2022 Subtotal
2026	General Capital Transfer	10,000	Crack seal & surface coat basketball court.
		<u>\$10,000</u>	2026 Subtotal
TOTAL		<u>\$550,000</u>	

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #51-White Park

**2018-2027
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	<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 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	0	0	0	40,000	0	0	0	0	0	40,000
General	G.O. Bonds	25,000	75,000	475,000	0	0	0	0	620,000	0	0	1,195,000
	Total	25,000	75,000	475,000	0	40,000	0	0	620,000	0	0	1,235,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #52-Keach Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	25,000	Crack seal and resurface 3 basketball and tennis courts at Keach Park.
		\$25,000	2018 Subtotal
2019	General G.O. Bonds	75,000	Resurface and stripe the Newton Avenue parking lot at Keach Park.
		\$75,000	2019 Subtotal
2020	General G.O. Bonds	400,000	Design and construction of lighting improvements for 1 soccer field so as the facility may be used for night games.
	General G.O. Bonds	75,000	Replace Playground Equipment. Timing subject to CIP 443 City Wide Community Center Project.
		\$475,000	2020 Subtotal
2022	General Capital Transfer	40,000	Replace irrigation system pump and appurtenances.
		\$40,000	2022 Subtotal
2025	General G.O. Bonds	620,000	Acquisition of property for park expansion.
		\$620,000	2025 Subtotal
	TOTAL	\$1,235,000	

**2018-2027
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: 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. 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: The proposed improvements will result in significant enhancements to an underutilized recreational asset, thereby expanding the City's capacity for field based sporting events.

IMPACT IF NOT FUNDED: Capacity for field based youth sports will remain limited.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	450,000	675,000	0	0	0	0	1,125,000
	Total	0	0	0	0	450,000	675,000	0	0	0	0	1,125,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #54-Russell Martin Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	450,000	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.
		\$450,000	2022 Subtotal
2023	General G.O. Bonds	450,000	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.
		\$675,000	2023 Subtotal
	TOTAL	\$1,125,000	

**2018-2027
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 SERVED: New L Safety M Facility Cond. N/A Productivity
 Replace N/A Mandates M Service Def. N/A Tax Base Exp. H City Master Pl.
 Rebuild N/A O + M Costs N/A Council Goals M Timeliness Parks
 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.

Lighting for the baseball field will be evaluated and, if warranted, installed in order to expand usage. CIP shows continued maintenance of existing park assets.

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

IMPACT IF NOT FUNDED: 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	150,000	0	0	75,000	0	0	0	0	0	225,000
	Total	0	150,000	0	0	75,000	0	0	0	0	0	225,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #55-Rolfe Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	150,000	Reconstruction of two tennis courts that are currently not useable. Possible location for full time pickle ball courts as there is already a tennis court at the park.
		\$150,000	2019 Subtotal
2022	General G.O. Bonds	75,000	Replace playground equipment.
		\$75,000	2022 Subtotal
	TOTAL	\$225,000	

**2018-2027
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	<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 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	0	0	0	25,000	0	0	0	0	0	25,000
General	G.O. Bonds	160,000	160,000	0	0	100,000	0	75,000	75,000	450,000	350,000	1,370,000
	Total	160,000	160,000	0	0	125,000	0	75,000	75,000	450,000	350,000	1,395,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #56-Rollins Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	160,000	Stump, grub, loam and seed the formerly wooded area along Bow Street which was removed in 2017. Improvements will also include picnic tables and walkways.
		\$160,000	2018 Subtotal
2019	General G.O. Bonds	90,000	Design and construction of additional improvements to 2.5 +/- acre area along Bow Street where diseased trees were harvested during FY2017. Improvements shall be substantially similar to preliminary conceptual designs prepared by the City Planning Division and shall include three picnic shelters, a natural playscape area, as well as a permaculture garden.
	General G.O. Bonds	70,000	Phase 2 of repointing wall along Broadway. Phase 1 completed in FY17.
		\$160,000	2019 Subtotal
2022	General G.O. Bonds	100,000	Reconstruct existing basketball and tennis courts per master plan.
	General Capital Transfer	25,000	Replace baseball field backstop.
		\$125,000	2022 Subtotal
2024	General G.O. Bonds	75,000	Design of the Phase I park improvements including the reconstruction of the baseball and softball fields, adding irrigation, walkways and a picnic area.
		\$75,000	2024 Subtotal
2025	General G.O. Bonds	75,000	Replace playground equipment.
		\$75,000	2025 Subtotal
2026	General G.O. Bonds	450,000	Construction of Phase I park improvements including the reconstruction of the baseball and softball fields, irrigation, walkways and a picnic area.
		\$450,000	2026 Subtotal
2027	General G.O. Bonds	350,000	Design and construction of Phase II improvements including access and parking areas.
		\$350,000	2027 Subtotal
	TOTAL	\$1,395,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #57-Gustaf H. Lehtinen Park/Hero's Bridge

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Horse Hill Road

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 Parks
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	50,000	0	0	0	0	0	0	0	0	50,000
	Total	0	50,000	0	0	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.
		\$50,000	2019 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#57-Gustaf H. Lehtinen Park/Hero's Bridge
TOTAL		\$50,000

**2018-2027
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	<input type="checkbox"/> 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 FY2017 the consulting firm VHB was engaged to undertake preliminary design of proposed improvements, as well as update cost estimates for the project.

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. Terrill Park is a great location for a "gateway park" as it is underused riverfront 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #59-Terrill Park

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Donations	0	800,000	0	0	0	0	0	0	0	0	800,000
General	G.O. Bonds	0	900,000	1,245,000	980,000	0	0	0	0	0	0	3,125,000
	Total	0	1,700,000	1,245,000	980,000	0	0	0	0	0	0	3,925,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	900,000	Phase 1 - Construct multi-purpose playing field, lighting, fencing, access drive, maintenance building and maintenance equipment. Cost estimated to be updated upon completion of preliminary design by VHB during FY2018.
	General Donations	800,000	Donations and grants share of project costs.
		<u>\$1,700,000</u>	2019 Subtotal
2020	General G.O. Bonds	1,245,000	Phase 2 - Construct parking lot and secondary access roadway, site walkways, pedestrian lighting, landscaping, and river walk improvements. Cost estimated to be updated upon completion of preliminary design by VHB during FY2018.
		<u>\$1,245,000</u>	2020 Subtotal
2021	General G.O. Bonds	980,000	Phase 3 - Construct park pavilion, grandstands, and concession. Cost estimated to be updated upon completion of preliminary design by VHB during FY2018.
		<u>\$980,000</u>	2021 Subtotal
	TOTAL	<u>\$3,925,000</u>	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #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	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
SERVED:	<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"/> 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 are 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 remain underdeveloped.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20

Expected Bond Term (in Years)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #60-Kiwanis (Waterfront) Park

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	120,000	0	0	0	1,000,000	0	0	0	0	1,120,000
	Total	0	120,000	0	0	0	1,000,000	0	0	0	0	1,120,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	120,000	Final design and permitting of park improvements based on the 2009 park master plan. Designs shall also incorporate recommendations of joint planning efforts undertaken by the Everett Arena Advisory Committee and Parks and Recreation Advisory Committee in 2017. Project shall include adaptive reuse of the Fire Training Grounds into public recreational spaces.
		\$120,000	2019 Subtotal
2023	General G.O. Bonds	1,000,000	Construction of park improvements based on 2009 park master plan.
		\$1,000,000	2023 Subtotal
	TOTAL	\$1,120,000	

**2018-2027
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"/> 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 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", which calls for the closure and consolidation of those facilities to a new center located at Keach Park.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	535,000	145,000	195,000	450,000	142,000	300,000	350,000	375,000	200,000	200,000	2,892,000
	Total	535,000	145,000	195,000	450,000	142,000	300,000	350,000	375,000	200,000	200,000	2,892,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	535,000	Keach pool replacement.
		\$535,000	2018 Subtotal
2019	General G.O. Bonds	100,000	Replace slate roof at West Street Ward House.
	General G.O. Bonds	45,000	Repair granite stairs, repair concrete foundation and repoint the brickwork at West Street Ward House.
		\$145,000	2019 Subtotal
2020	General G.O. Bonds	100,000	Replace wood floor at West Street Ward House.
	General G.O. Bonds	45,000	Replace wood floor in dance studio at Green Street Community Center.
	General G.O. Bonds	25,000	Chlorinators and pumps at 3 (three) pools.
	General G.O. Bonds	25,000	Replace restroom partitions at all City pools.
		\$195,000	2020 Subtotal
2021	General G.O. Bonds	450,000	Merrill Park pool replacement.
		\$450,000	2021 Subtotal
2022	General G.O. Bonds	75,000	Replace Green Street Community Center roof (last done in 1997).
	General G.O. Bonds	35,000	Replace the windows at the West Street Ward House.
	General G.O. Bonds	32,000	Chlorinators and pumps at 4 (four) pools.
		\$142,000	2022 Subtotal
2023	General G.O. Bonds	300,000	White Park pool replacement.
		\$300,000	2023 Subtotal
2024	General G.O. Bonds	350,000	Garrison Park pool replacement.
		\$350,000	2024 Subtotal

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES		#63-City Wide Recreation Facility Improvements	
2025	General G.O. Bonds	350,000		Rollins Park pool replacement.
	General G.O. Bonds	25,000		Chlorinators and pumps at 4 (four) pools.
		\$375,000		2025 Subtotal
2026	General G.O. Bonds	200,000		Placeholder for future project.
		\$200,000		2026 Subtotal
2027	General G.O. Bonds	200,000		Placeholder for future project.
		\$200,000		2027 Subtotal
	TOTAL	\$2,892,000		

**2018-2027
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 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"/> 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 regular capital investments in the Everett Arena. Projects shall include, but not be 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Arena	G.O. Bonds	20,000	75,000	0	100,000	100,000	0	650,000	100,000	0	0	1,045,000
General	G.O. Bonds	0	1,025,000	0	0	0	0	0	0	0	0	1,025,000
Arena	Capital Transfer	16,000	0	0	20,000	0	0	0	0	0	0	36,000
	Total	36,000	1,100,000	0	120,000	100,000	0	650,000	100,000	0	0	2,106,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #64-Arena Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Arena G.O. Bonds	20,000	Fire alarm system upgrades.
	Arena Capital Transfer	10,000	Replace Zamboni batteries.
	Arena Capital Transfer	6,000	Provide WIFI throughout the Arena facility.
		\$36,000	2018 Subtotal
2019	General G.O. Bonds	1,025,000	General Fund portion of the parking lot reconstruction.
	Arena G.O. Bonds	75,000	Arena portion of parking lot reconstruction.
		\$1,100,000	2019 Subtotal
2021	Arena G.O. Bonds	100,000	Replace compressors (1960 vintage). Recommended in the Dubois & King Report.
	Arena Capital Transfer	20,000	Preliminary architectural services for design of a new lobby.
		\$120,000	2021 Subtotal
2022	Arena G.O. Bonds	100,000	Replace Zamboni.
		\$100,000	2022 Subtotal
2024	Arena G.O. Bonds	650,000	Final design and construction of a new lobby.
		\$650,000	2024 Subtotal
2025	Arena G.O. Bonds	100,000	Replace Munters Dehumidification System.
		\$100,000	2025 Subtotal
	TOTAL	\$2,106,000	

**2018-2027
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"/> 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 purpose of this project is to make routine investments to preserve, restore, and maintain City Hall, Police Station, City Hall Annex and City Auditorium. 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	15,000	85,000	265,000	120,000	30,000	100,000	10,000	200,000	250,000	200,000	1,275,000
	Total	15,000	85,000	265,000	120,000	30,000	100,000	10,000	200,000	250,000	200,000	1,275,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	15,000	Replace City Hall Fire Alarm panel.
		\$15,000	2018 Subtotal
2019	General G.O. Bonds	50,000	City Hall Facility Needs Assessment and Renovation Study.
	General G.O. Bonds	35,000	Paint interior and replace carpet in Council Chambers.
		\$85,000	2019 Subtotal
2020	General G.O. Bonds	250,000	Replace the elevator at City Hall.
	General G.O. Bonds	15,000	Repair City Hall Annex pre-cast concrete panels.
		\$265,000	2020 Subtotal
2021	General G.O. Bonds	100,000	Carpet replacement throughout areas displaying major wear.
	General G.O. Bonds	20,000	Paint and ceiling tiles in select areas of significant wear.
		\$120,000	2021 Subtotal
2022	General G.O. Bonds	30,000	Placeholder for 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	10,000	Replace re-heat coils at City Hall at outside air intake.
		\$10,000	2024 Subtotal
2025	General G.O. Bonds	200,000	Placeholder for renovations.
		\$200,000	2025 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES	#65-City Hall Renovations		
2026	General G.O. Bonds	200,000		Placeholder for renovations.
	General G.O. Bonds	50,000		Security system installation. Door hardware and card reader system compatible with police building system
		\$250,000		2026 Subtotal
2027	General G.O. Bonds	200,000		Placeholder for renovations.
		\$200,000		2027 Subtotal
	TOTAL	\$1,275,000		

**2018-2027
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="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: 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: LIBRARY #68-Library

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Donations	0	0	0	0	0	0	0	0	0	160,000	160,000
General	G.O. Bonds	0	0	0	0	2,250,000	0	0	0	0	1,440,000	3,690,000
	Total	0	0	0	0	2,250,000	0	0	0	0	1,600,000	3,850,000

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.
		<u>\$2,250,000</u>	2022 Subtotal
2027	General G.O. Bonds	1,440,000	Design cost of new Concord Public Library - City share.
	General Donations	160,000	Design cost of new Concord Public Library - Donation share.
		<u>\$1,600,000</u>	2027 Subtotal
	TOTAL	<u>\$3,850,000</u>	

**2018-2027
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: 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: 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	State	0	0	0	0	0	0	0	23,750	0	0	23,750
Airport	Capital Transfer	0	0	0	0	0	0	0	23,750	0	0	23,750
Other	Federal	0	0	0	0	0	0	0	427,500	0	0	427,500
	Total	0	0	0	0	0	0	0	475,000	0	0	475,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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	

**2018-2027
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 N/A Safety L Facility Cond. N/A Productivity
 SERVED: Replace N/A Mandates N/A Service Def. N/A Tax Base Exp. H City Master Pl.
 Rebuild L O + M Costs N/A Council Goals L 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other State		0	0	0	0	0	27,778	147,778	147,778	0	50,000	373,334
Airport G.O. Bonds		0	0	0	0	0	0	147,778	147,778	0	50,000	345,556
Other Federal		0	0	0	0	0	500,000	2,660,000	2,660,000	0	900,000	6,720,000
Airport Capital Transfer		0	0	0	0	0	27,778	0	0	0	0	27,778
	Total	0	0	0	0	0	555,556	2,955,556	2,955,556	0	1,000,000	7,466,668

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2023	Other Federal	500,000	Design runway 17/35 reclamation project, including upgraded 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 2006 Airport Master Plan Storm Water Pollution Prevention Plan (SWPPP). The runway will be shifted 300 feet to the south to comply with Runway Safety Determination Study.
	Other State	27,778	Design the reclaim runway 17/35. State share.
	Airport Capital Transfer	27,778	Design the reclaim runway 17/35. City share.
		\$555,556	2023 Subtotal
2024	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	2024 Subtotal
2025	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	2025 Subtotal
2027	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	2027 Subtotal

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#72-Runway Pavement Improvements
TOTAL		\$7,466,668

**2018-2027
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	<u>N/A</u> Safety	<input type="checkbox"/> Facility Cond.	<u>N/A</u> Productivity	
	<input checked="" type="checkbox"/> Replace	<u>N/A</u> Mandates	<u>N/A</u> Service Def.	<u>N/A</u> Tax Base Exp.	<u>H</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>L</u> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Airport	Capital Transfer	15,000	10,000	0	15,000	0	25,000	0	10,000	10,000	10,000	95,000
Airport	Donations	20,000*	0	0	0	0	0	0	0	0	0	20,000
Airport	G.O. Bonds	20,000*	0	0	0	60,000	0	30,000	0	0	0	110,000
	Total	55,000	10,000	0	15,000	60,000	25,000	30,000	10,000	10,000	10,000	225,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Airport Donations	20,000	Terminal Building renovations, including new paint, carpet, ceiling tiles, and other similar improvements. Donations share.
	Airport G.O. Bonds	20,000	Terminal Building renovations, including new paint, carpet, ceiling tiles, and other similar improvements. City share.
	Airport Capital Transfer	15,000	Hangar maintenance and repairs.
		\$55,000	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
2026	Airport Capital Transfer	10,000	Tree removal. Ongoing maintenance item to meet FAA requirements.

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES	#75-General Airport Repairs	
		\$10,000	2026 Subtotal
2027	Airport Capital Transfer	10,000	Tree removal. Ongoing maintenance item to meet FAA requirements.
		\$10,000	2027 Subtotal
	TOTAL	\$225,000	

**2018-2027
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	<input type="checkbox"/> 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 Federal Aviation Administration (FAA) grant assurances. Also to improve productivity of staff.

IMPACT IF NOT FUNDED: Potential loss of future FAA grant funding for infrastructure improvements. 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Airport	Capital Transfer	0	0	11,750	0	0	0	0	0	0	18,750	30,500
Other	Federal	0	0	211,500	0	0	0	0	0	0	337,500	549,000
Other	State	0	0	11,750	0	0	0	0	0	0	18,750	30,500
	Total	0	0	235,000	0	0	0	0	0	0	375,000	610,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	Other Federal	211,500	Purchase new 10 wheeler dump truck with plow and 2 wings. Federal Share.
	Airport Capital Transfer	11,750	City portion.
	Other State	11,750	State portion.
		\$235,000	2020 Subtotal
2027	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	2027 Subtotal
	TOTAL	\$610,000	

**2018-2027
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: The purpose of this project is to fund routine repair and reconstruction of City streets, including minor alterations to improve safety and flow of traffic. There are generally two techniques used to improve streets. The first is cold planing / overlaying which involves removal of the top 1-2" of existing pavement with a grinder, followed by the installation of new pavement. Reclaiming involves in-place crushing and recycling of all underlying asphalt and dirt road base, which is then graded and compacted to form the base for new pavement. All streets scheduled for cold plane / overlay or reclamation will receive drainage improvements, as might be required to correct existing deficiencies in order to prolong longevity of the roadway. Crack sealing is also included within this project in order to prolong the longevity of past paving projects.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Highway Reserve	1,675,000	1,850,000	2,050,000	2,215,000	2,375,000	2,550,000	2,710,000	2,710,000	2,710,000	0	20,845,000
	Total	1,675,000	1,850,000	2,050,000	2,215,000	2,375,000	2,550,000	2,710,000	2,710,000	2,710,000	0	20,845,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General Highway Reserve	1,365,000	MAINTENANCE OVERLAYS: Appleton St; Full Length Asby Rd; Full Length Chapel St; Full Length Columbus St; Full Length Locke Rd; W. Locke to end Rumford St; Albin to Penacook Rumford St; Penacook to N State S. Fruit St; Full Length Sewalls Falls Rd; N. State to Second St Washington St (P); Fowler to River Rd RECLAIM: Millstream Ln (Penacook); Washington St to Bentwood Washington St (P); 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.
		\$1,675,000	2018 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

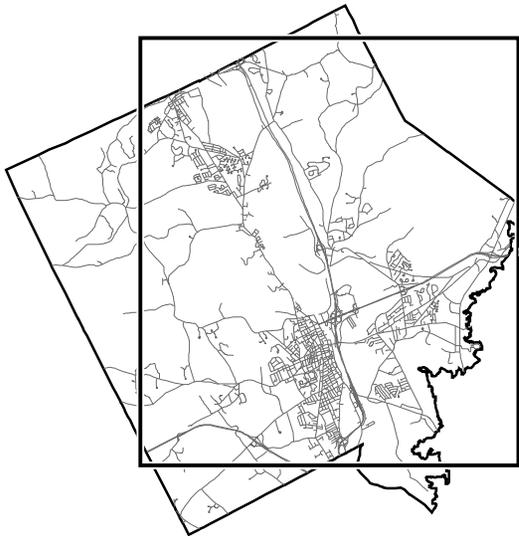
PROJECT:	GS-HIGHWAY / UTILITIES	#78-Annual Highway Improvement Program	
2019	General Highway Reserve	1,525,000	MAINTENANCE OVERLAYS: Bourough Rd; Full Length Carter St; Full Length Fowler St; Full Length Laurel St; Full Length Norwich St; Clinton to Wilson Pine St; Full Length Sewalls Fall Rd; RR crossing to Mountain Road RECLAIM: Hillside; Full Length Kensington St; Full Length N. Fruit St; School to Pleasant Pleasant St; Fruit St to Rum Hill Rum Hill Rd; Full Length School St; Westbourne to Rum Hill Warren St; Liberty St to Fruit St Woodman St; Full Length
	General Highway Reserve	200,000	Crack sealing various streets.
	General Highway Reserve	100,000	Drainage repairs.
	General Highway Reserve	25,000	Emergency overlays.
		\$1,850,000	2019 Subtotal
2020	General Highway Reserve	1,725,000	Reclaim, cold plane/overlay, & 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.
		\$2,050,000	2020 Subtotal
2021	General Highway Reserve	1,890,000	Reclaim, cold plane/overlay, & maintenance overlay selected streets.
	General Highway Reserve	200,000	Crack sealing various streets.
	General Highway Reserve	100,000	Drainage repairs.

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#78-Annual Highway Improvement Program	
	General Highway Reserve	25,000	Emergency overlays.
		\$2,215,000	2021 Subtotal
2022	General Highway Reserve	2,050,000	Reclaim, cold plane/overlay, & 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.
		\$2,375,000	2022 Subtotal
2023	General Highway Reserve	2,225,000	Reclaim, cold plane/overlay, & 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.
		\$2,550,000	2023 Subtotal
2024	General Highway Reserve	2,385,000	Reclaim, cold plane/overlay, & 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.
		\$2,710,000	2024 Subtotal
2025	General Highway Reserve	2,385,000	Reclaim, cold plane/overlay, & 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.
		\$2,710,000	2025 Subtotal
2026	General Highway Reserve	2,385,000	Reclaim, cold plane/overlay, & maintenance overlay selected streets.

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#78-Annual Highway Improvement Program
	General Highway Reserve	200,000 Crack sealing various streets.
	General Highway Reserve	100,000 Drainage repairs
	General Highway Reserve	25,000 Emergency overlays.
		<hr/>
		\$2,710,000 2026 Subtotal
TOTAL		<hr/>
		\$20,845,000



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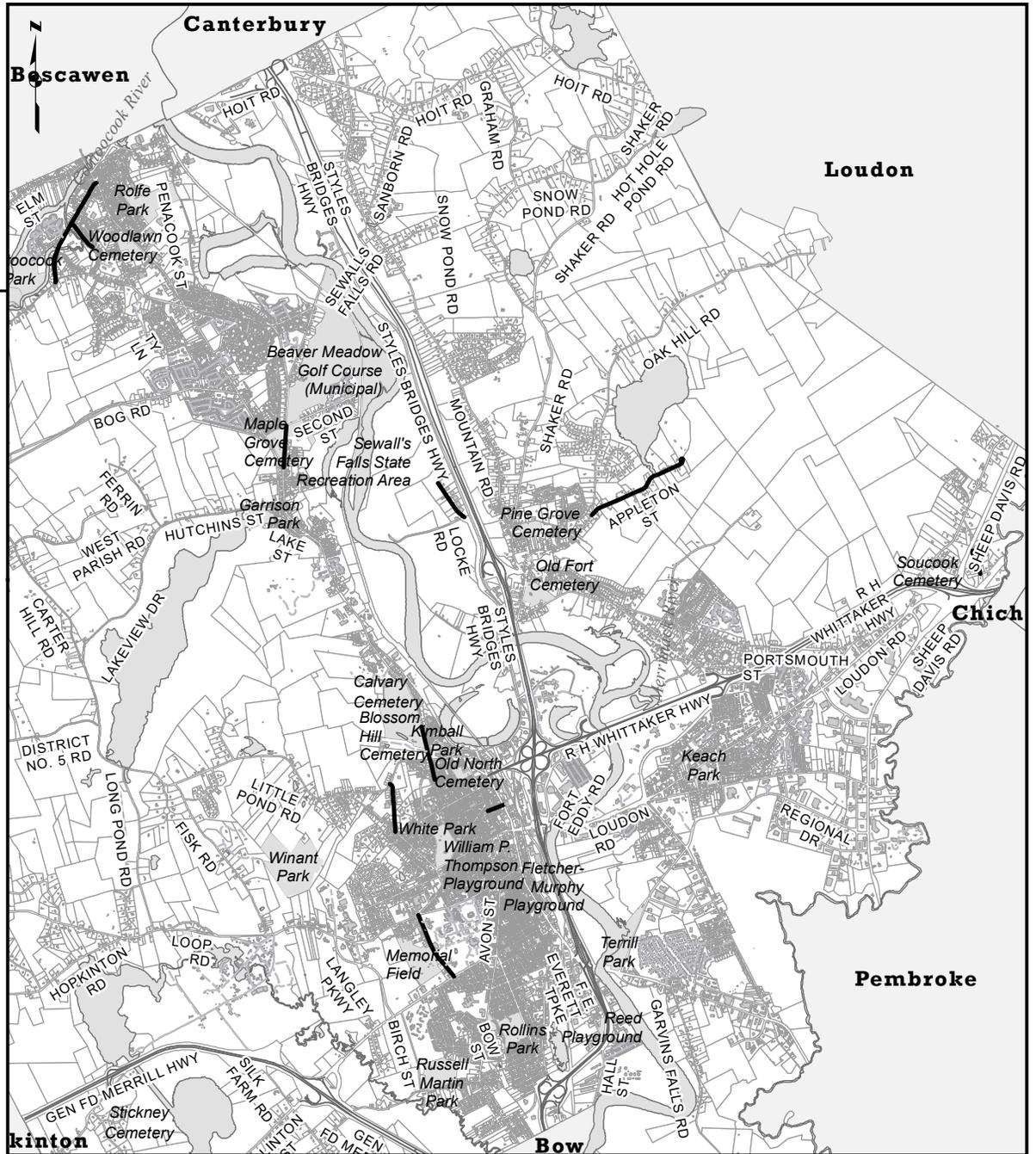
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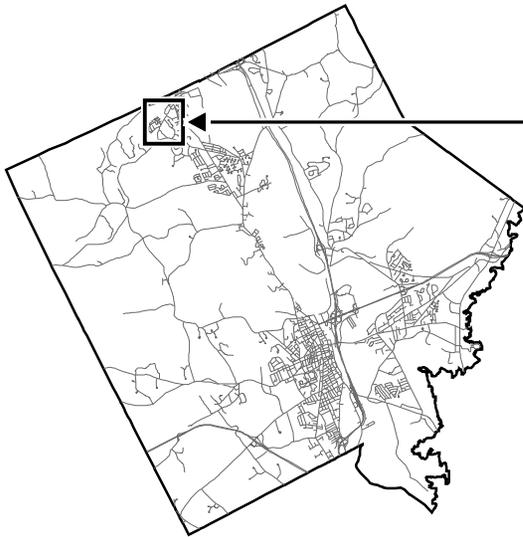
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**FY 2018
 CIP PROJECT #78**

**ANNUAL HIGHWAY
 IMPROVEMENT PROGRAM**



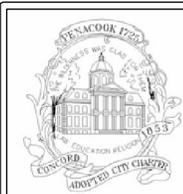


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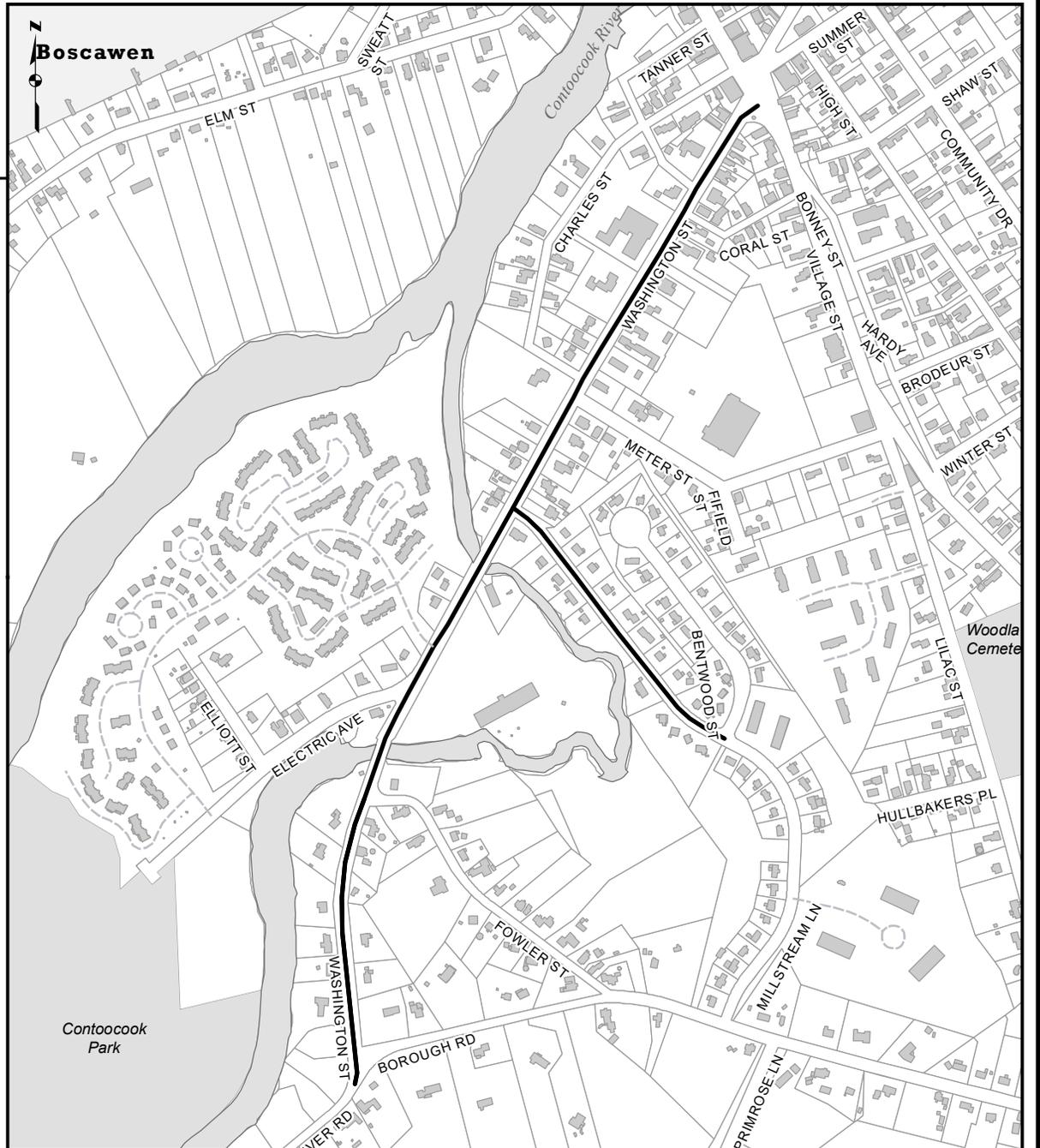
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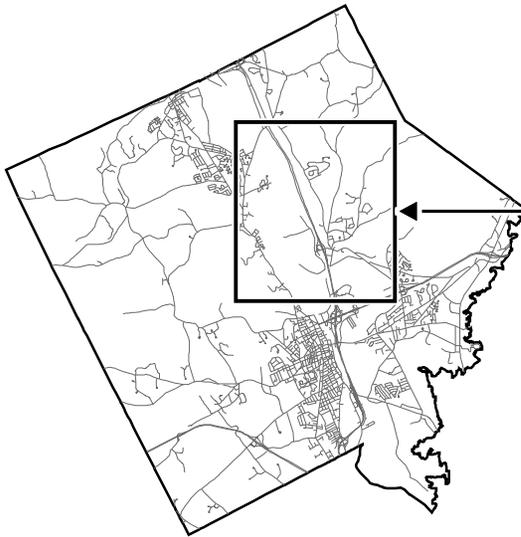
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**FY 2018
 CIP PROJECT #78**

**ANNUAL HIGHWAY
 IMPROVEMENT PROGRAM**





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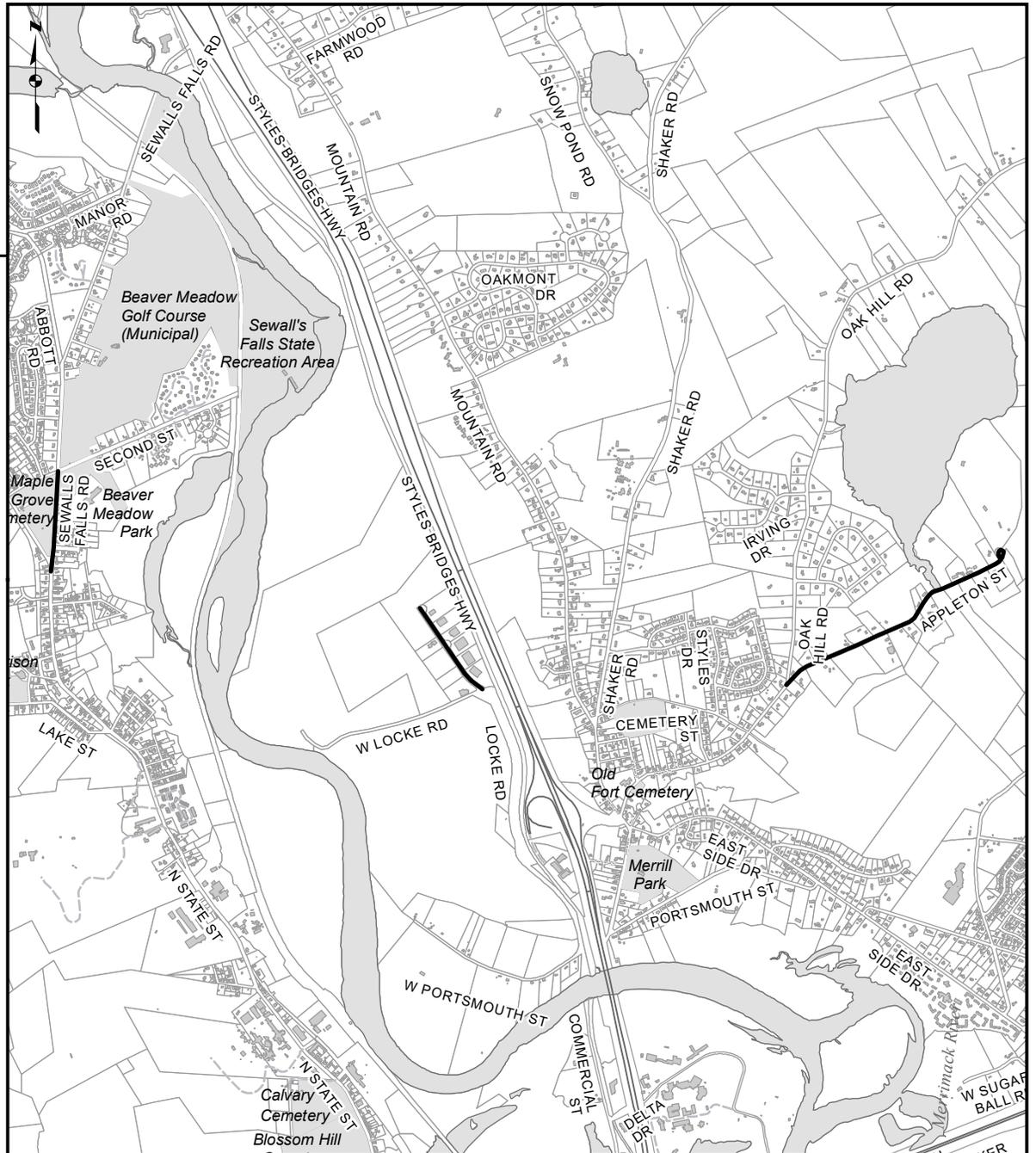
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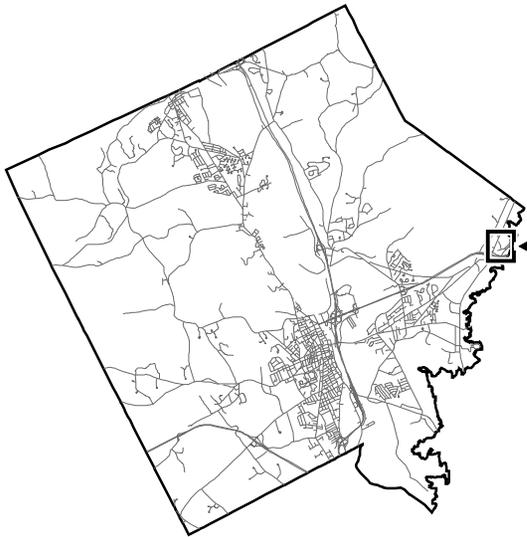
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**FY 2018
 CIP PROJECT #78**

**ANNUAL HIGHWAY
 IMPROVEMENT PROGRAM**





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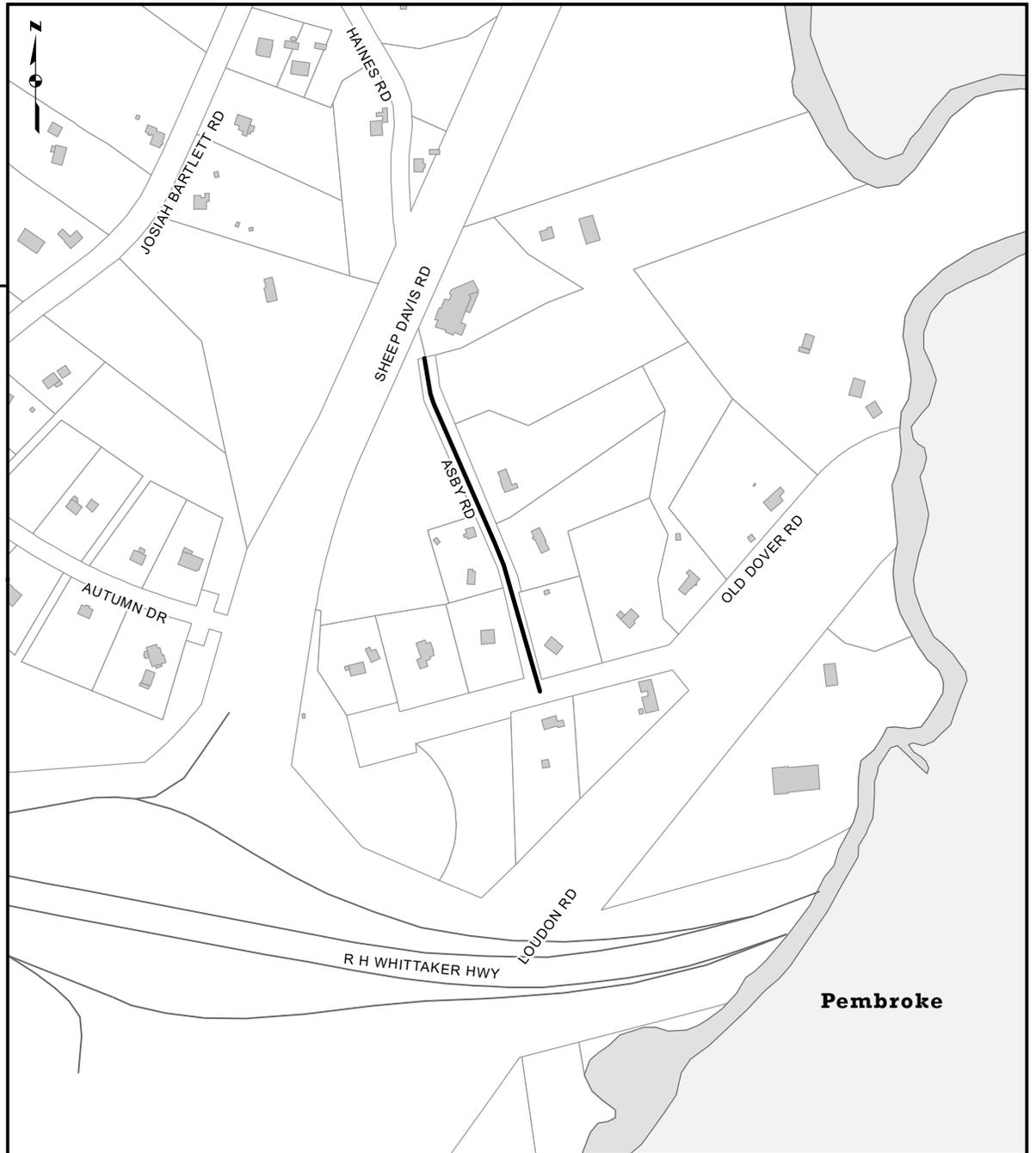
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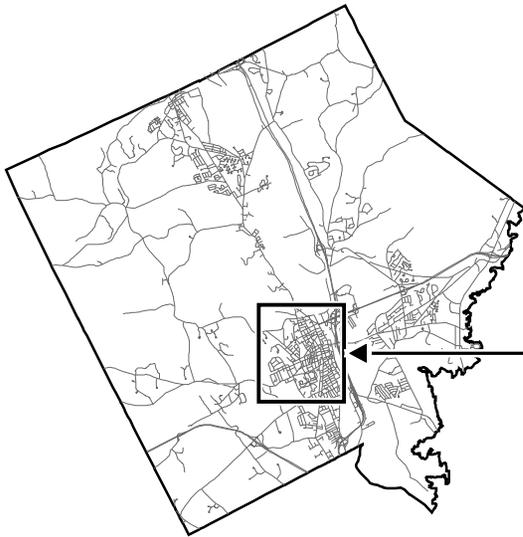
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**FY 2018
 CIP PROJECT #78**

**ANNUAL HIGHWAY
 IMPROVEMENT PROGRAM**





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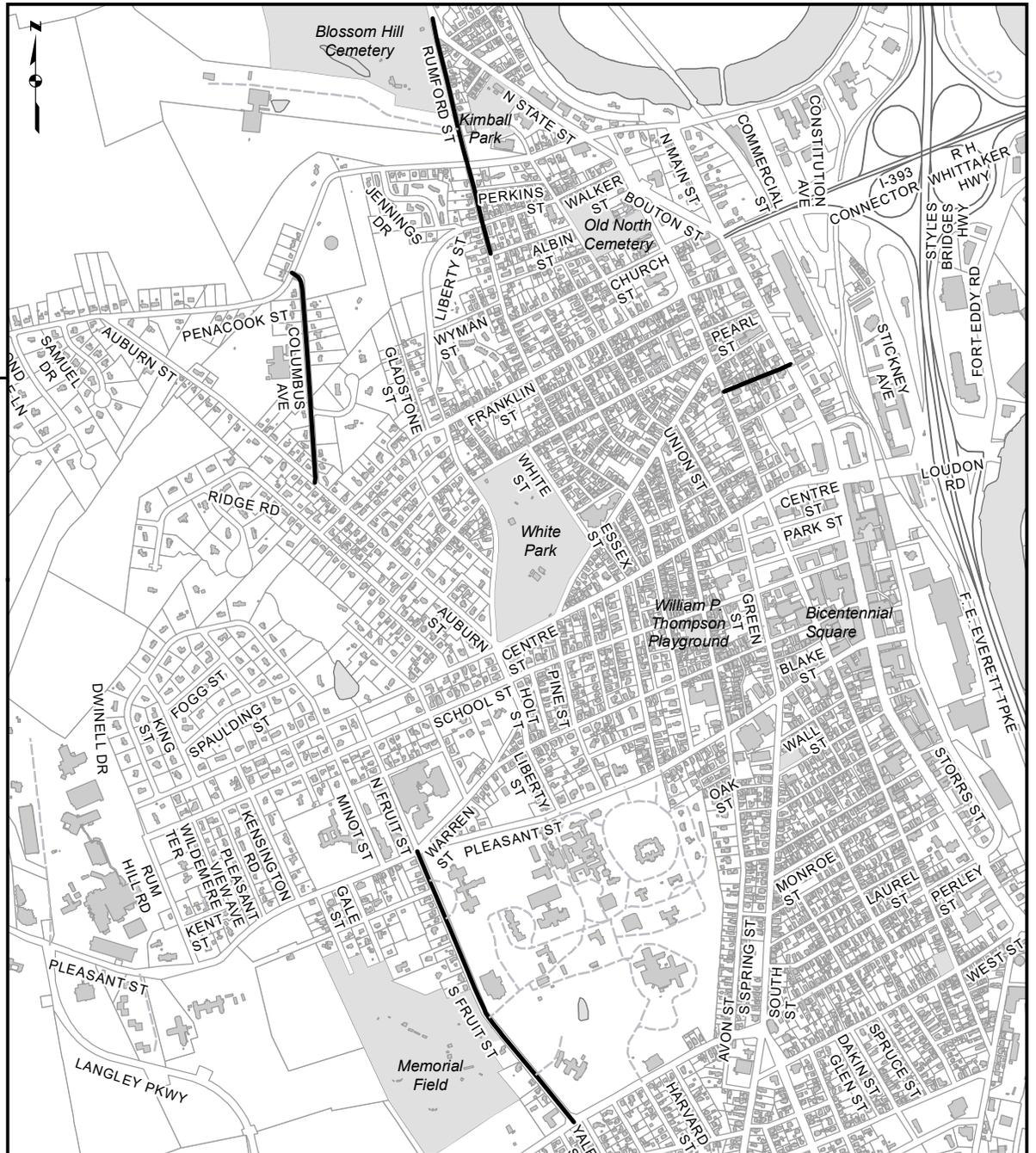
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**FY 2018
 CIP PROJECT #78**

**ANNUAL HIGHWAY
 IMPROVEMENT PROGRAM**



**2018-2027
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	<input type="checkbox"/> 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.

The purpose of this project is to design and construct replacement and significant improvements to the City's storm water drainage system, including the potential to create a dedicated funding source through the development 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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

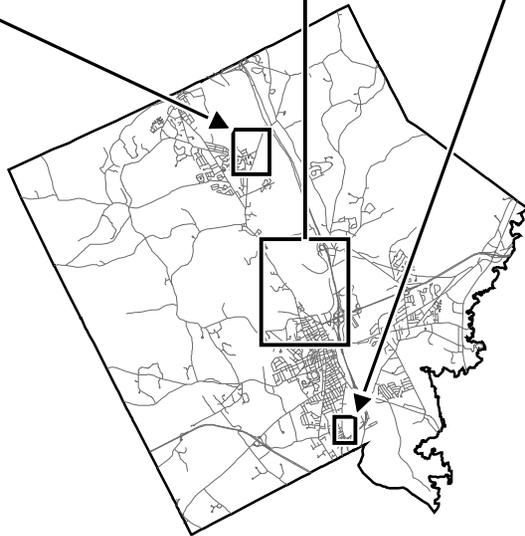
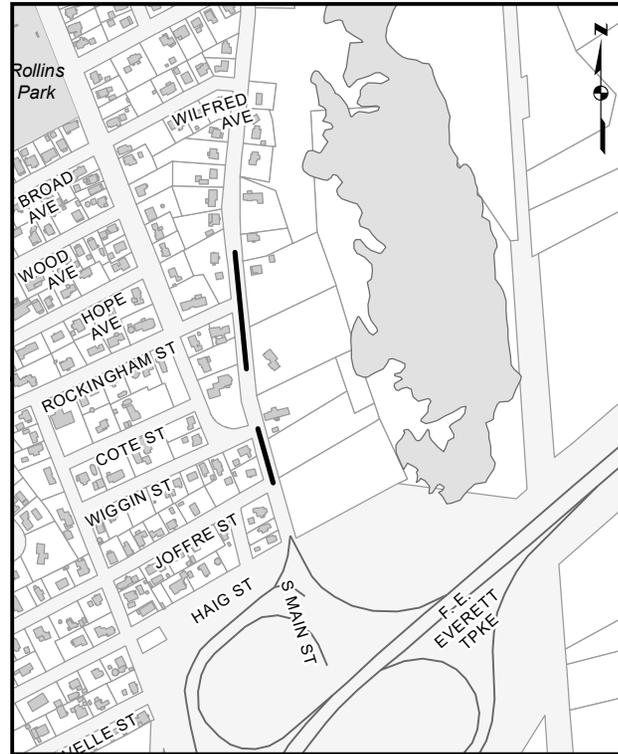
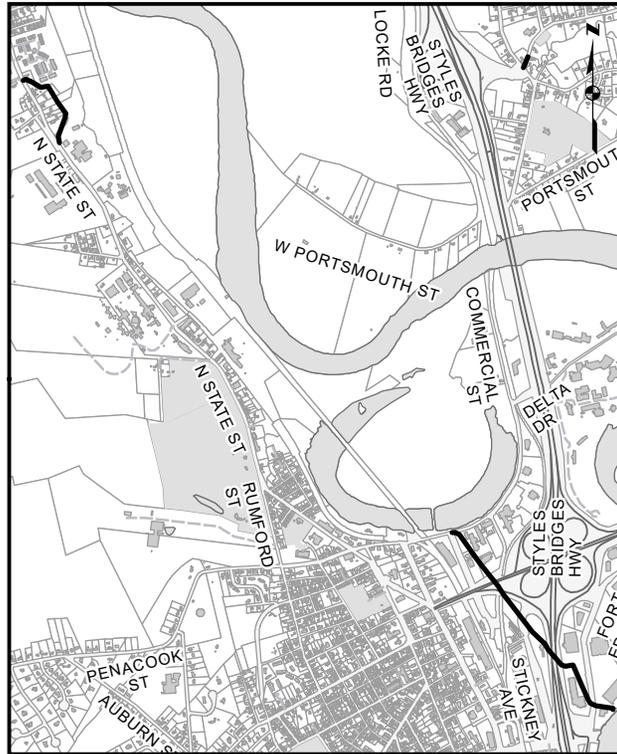
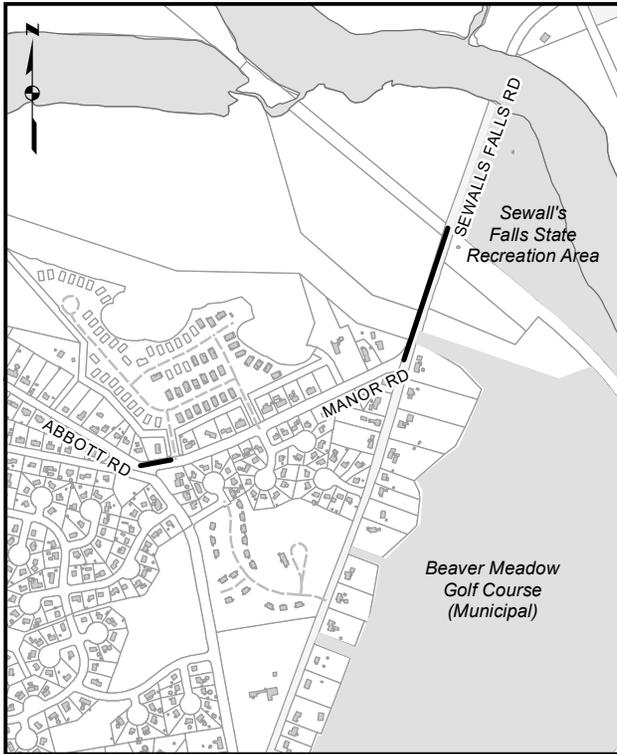
Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	490,000	800,000	650,000	1,000,000	1,000,000	1,250,000	1,250,000	1,250,000	1,500,000	1,500,000	10,690,000
Sewer	G.O. Bonds	50,000	0	0	0	0	0	0	0	0	0	50,000
	Total	540,000	800,000	650,000	1,000,000	1,000,000	1,250,000	1,250,000	1,250,000	1,500,000	1,500,000	10,740,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	400,000	Clean and line portions of storm sewer mains on sections of Manor Road, Sewalls Falls Road, Shawmut Street and South Main Street. Clean the 24 by 36 inch brick storm drain from Commercial Street to the Merrimack River.
	General G.O. Bonds	90,000	Design and construct drainage improvements in the vicinity of 197 Mountain Road and the Blye Farm Condominium development.
	Sewer G.O. Bonds	50,000	Sewer Interceptor/Drainage Channel Restoration - Area B (Sewer Fund Portion).
		<u>\$540,000</u>	2018 Subtotal
2019	General G.O. Bonds	450,000	Sewer Interceptor/Drainage Channel Restoration - Area B (Abbottville/Hood Outfall Area)
	General G.O. Bonds	250,000	Design, permitting, and construction of culvert replacement on Alder Creek Drive (Beaver Meadow Brook).
	General G.O. Bonds	100,000	Design Lincoln Street drainage improvements.
		<u>\$800,000</u>	2019 Subtotal
2020	General G.O. Bonds	650,000	Design, permitting, and construction of drainage improvements within the Lincoln Street drainage area.
		<u>\$650,000</u>	2020 Subtotal
2021	General G.O. Bonds	1,000,000	Placeholder: Major drainage infrastructure improvements.
		<u>\$1,000,000</u>	2021 Subtotal
2022	General G.O. Bonds	1,000,000	Placeholder: Major drainage infrastructure improvements.

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#83-Storm Water Improvements		
		\$1,000,000	2022 Subtotal	
2023	General G.O. Bonds	1,250,000	Placeholder: Major drainage infrastructure improvements.	
		\$1,250,000	2023 Subtotal	
2024	General G.O. Bonds	1,250,000	Placeholder: Major drainage infrastructure improvements.	
		\$1,250,000	2024 Subtotal	
2025	General G.O. Bonds	1,250,000	Placeholder: Major drainage infrastructure improvements.	
		\$1,250,000	2025 Subtotal	
2026	General G.O. Bonds	1,500,000	Placeholder: Major drainage infrastructure improvements.	
		\$1,500,000	2026 Subtotal	
2027	General G.O. Bonds	1,500,000	Placeholder: Major drainage infrastructure improvements.	
		\$1,500,000	2027 Subtotal	
	TOTAL	\$10,740,000		



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**FY 2018
 CIP PROJECT #83**

STORM WATER IMPROVEMENTS

**2018-2027
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:	<input type="checkbox"/> New	<input type="checkbox"/> M 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"/> 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"/> N/A O + M Costs	<input type="checkbox"/> N/A Council Goals	<input type="checkbox"/> M Timeliness	<input type="checkbox"/> Water
	<input type="checkbox"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	0	0	0	0	0	0	0	0	250,000	0	250,000
	Total	0	0	0	0	0	0	0	0	250,000	0	250,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2026	Water G.O. Bonds	250,000	Design and line approximately 1,250 LF of 8" water mains on Orion Street and Valley Road.
		<u>\$250,000</u>	2026 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#84-Water Main Cleaning & Lining
	TOTAL	\$250,000

**2018-2027
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" value="L"/> 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="H"/> 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="N/A"/> Council Goals	<input type="checkbox" value="H"/> Timeliness	Water
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

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

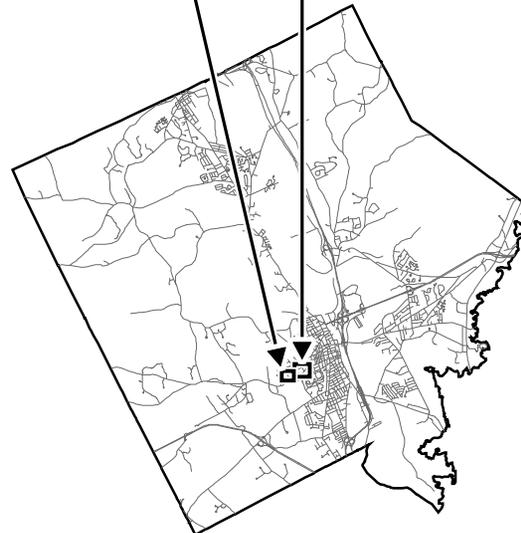
Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	950,000	650,000	675,000	900,000	790,000	825,000	0	0	0	0	4,790,000
Water	Capital Close-out	341,454	0	0	0	0	0	0	0	0	0	341,454
	Total	1,291,454	650,000	675,000	900,000	790,000	825,000	0	0	0	0	5,131,454

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water G.O. Bonds	950,000	Design and replace 3,600 feet of 8 inch mains on Warren Street, West Washington Street, North Fruit Street, and Kensington Road.
	Water Capital Close-out	341,454	Closeout share. Design and replace 3,600 feet of 8 inch mains on Warren Street, North Fruit Street, and Kensington Road.
		\$1,291,454	2018 Subtotal
2019	Water G.O. Bonds	650,000	Design and replace 1,760 feet of 8 inch mains on Westborne Road, Woodman Street, and Minot Streets.
		\$650,000	2019 Subtotal
2020	Water G.O. Bonds	675,000	Design and replace 1,800 feet of 8 inch mains on Joffre Street and Vernon Street.
		\$675,000	2020 Subtotal
2021	Water G.O. Bonds	900,000	Design and replace 2,460 feet of 8 inch main on Elliot St., Curtice Ave., Foster St., Prospect St., Blanchard St. and Perkins Ct.
		\$900,000	2021 Subtotal
2022	Water G.O. Bonds	790,000	Design and replace 2,185 feet of 8 inch main on Lawrence Street and North Essex Street.
		\$790,000	2022 Subtotal
2023	Water G.O. Bonds	825,000	Design and replace 2,200 feet of 8 inch main on Hullbakers Place, B St., Heights Rd. and Rolinda Ave.
		\$825,000	2023 Subtotal
	TOTAL	\$5,131,454	




**FY 2018
CIP PROJECT #85**

WATER MAIN REPLACEMENT

Disclaimer of Mapping Accuracy
Engineering Services Division
City of Concord, New Hampshire

GEOGRAPHIC INFORMATION SYSTEM

This map conforms to the United States National Map Accuracy Standards. It was prepared for use by the City of Concord and uses a database digitized at a scale of 1:1200. Enlargements may produce measurable discrepancies. The City makes no representations or guarantees of its accuracy or its suitability for use other than by the City. Users other than the City, do so at their own risk.

Not to Scale

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	0	0	1,500,000	0	1,000,000	0	0	0	0	0	2,500,000
	Total	0	0	1,500,000	0	1,000,000	0	0	0	0	0	2,500,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	Water G.O. Bonds	1,500,000	Constitution Avenue from South Commercial Street to Storrs Street and Higgins Place, 1,900LF of 8" main. Project to be coordinated with CIP #18 "Storrs Street Extension North".
		\$1,500,000	2020 Subtotal

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#86-Water Main Construction	
2022	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	2022 Subtotal
	TOTAL	\$2,500,000	

**2018-2027
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:	<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: 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	390,000	100,000	1,000,000	250,000	100,000	0	100,000	230,000	150,000	36,600,000	38,920,000
	Total	390,000	100,000	1,000,000	250,000	100,000	0	100,000	230,000	150,000	36,600,000	38,920,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water G.O. Bonds	200,000	Pump station # 4 chemical process improvements design. Master Plan Phase II recommendation.
	Water G.O. Bonds	150,000	Pavement rehabilitation. Treatment plant site and pump station #4 yard.
	Water G.O. Bonds	40,000	Fence replacement. Security fencing along the rear adjacent to Lake Street.

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-WATER	#88-Water Plant Improvements		
			\$390,000	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	1,000,000	Pump station # 4. Construct chemical process improvements. Master Plan Phase II recommendation.
			\$1,000,000	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
2024	Water	G.O. Bonds	100,000	Rebuilding four treatment trains. Concrete work.
			\$100,000	2024 Subtotal
2025	Water	G.O. Bonds	150,000	Pipe gallery valve replacement.
	Water	G.O. Bonds	80,000	Replace 8 flocculator units.
			\$230,000	2025 Subtotal
2026	Water	G.O. Bonds	150,000	Pipe Gallery valve replacements.
			\$150,000	2026 Subtotal
2027	Water	G.O. Bonds	36,400,000	Placeholder for refurbishment of the treatment facility to meet the 12 Million Gallons per Day (MGD) capacity as proposed in the 2007 Master Plan. Preliminary estimate only. Cost to be refined.
	Water	G.O. Bonds	200,000	Pilot Testing for new water treatment system at Hutchins Street Facility.
			\$36,600,000	2027 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-WATER	#88-Water Plant Improvements	
	TOTAL		\$38,920,000

**2018-2027
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"/> H Safety	<input type="checkbox"/> N/A Facility Cond.	<input type="checkbox"/> N/A 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"/> L Council Goals	<input type="checkbox"/> L Timeliness	Sewer
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

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. Operating costs will increase due to additional power, chemical and maintenance requirements.

IMPACT IF NOT FUNDED: Forgo reduction in odor emissions.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Sewer	G.O. Bonds	60,000	500,000	0	0	175,000	2,800,000	100,000	0	0	275,000	3,910,000
	Total	60,000	500,000	0	0	175,000	2,800,000	100,000	0	0	275,000	3,910,000

**2018-2027
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
2018	Sewer G.O. Bonds	60,000	Design services for sludge holding tank scrubber refurbishment.
		\$60,000	2018 Subtotal
2019	Sewer G.O. Bonds	500,000	Sludge holding tank scrubber refurbishment.
		\$500,000	2019 Subtotal
2022	Sewer G.O. Bonds	175,000	Design 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	2022 Subtotal
2023	Sewer G.O. Bonds	2,800,000	Construction of odor control improvements design.
		\$2,800,000	2023 Subtotal
2024	Sewer G.O. Bonds	100,000	Hall Street odor monitoring.
		\$100,000	2024 Subtotal
2027	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	2027 Subtotal
	TOTAL	\$3,910,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

I. PROJECT TYPE: Sewer Collection

II. LOCATION: City wide

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<u>N/A</u> Safety	<input type="checkbox"/> Facility Cond.	<u>N/A</u> Productivity	
	<input checked="" type="checkbox"/> Replace	<u>N/A</u> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<u>H</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>N/A</u> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> Timeliness	Sewer
	<input type="checkbox"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Sewer	Capital Transfer	50,000	40,000	60,000	40,000	60,000	122,000	40,000	40,000	40,000	0	492,000
Sewer	G.O. Bonds	210,000	175,000	0	510,000	0	225,000	400,000	0	0	0	1,520,000
	Total	260,000	215,000	60,000	550,000	60,000	347,000	440,000	40,000	40,000	0	2,012,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

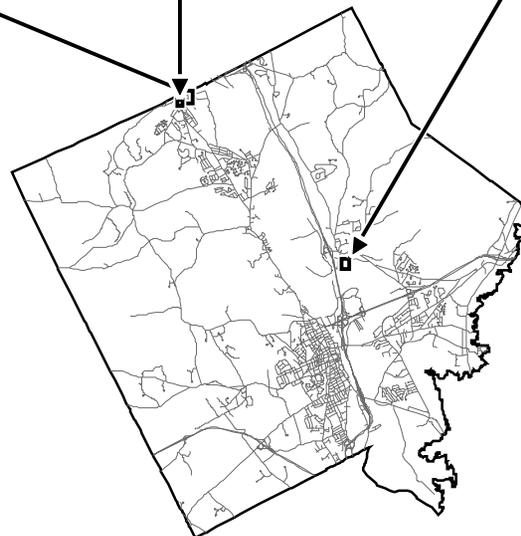
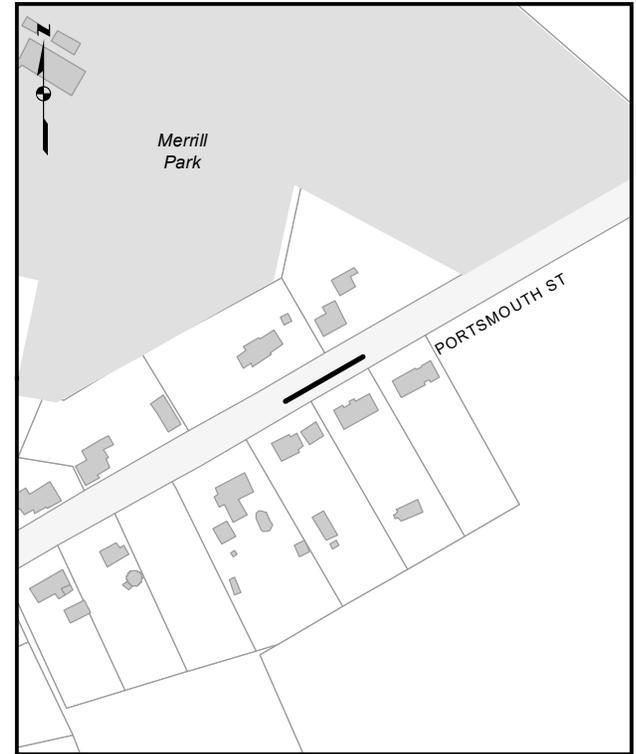
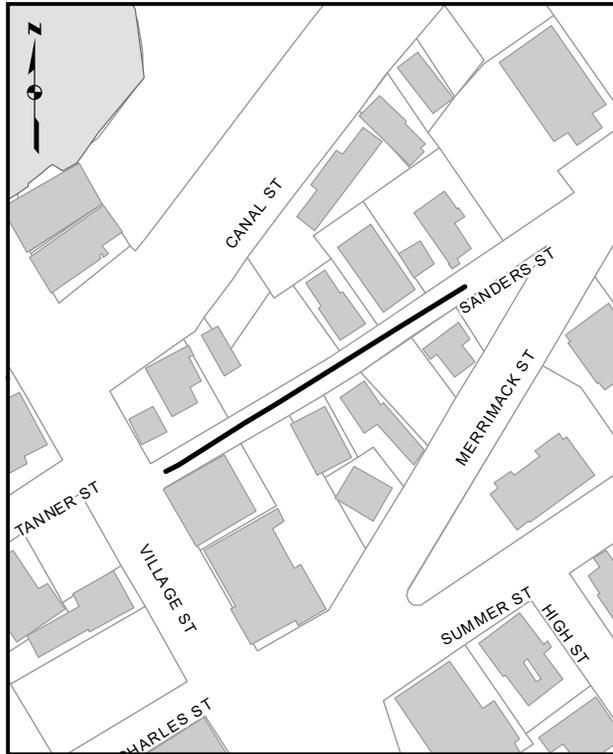
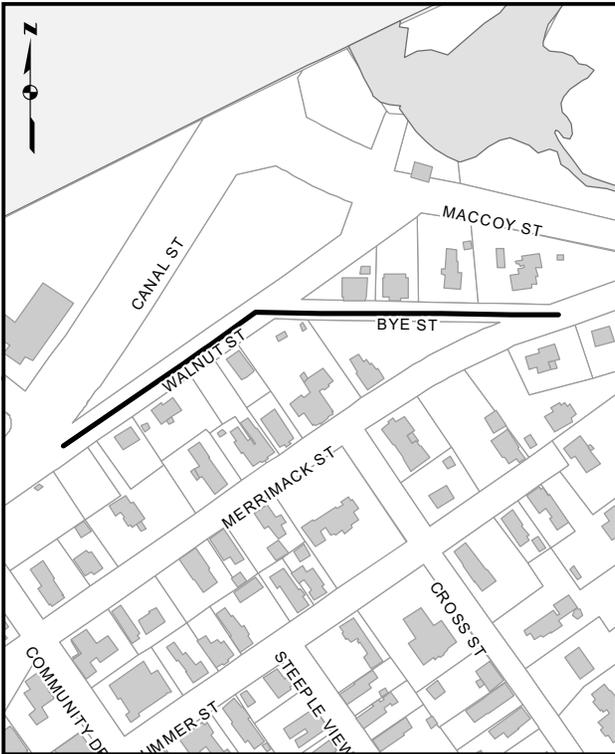
VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Sewer G.O. Bonds	110,000	Line 920 feet of 24 inch clay main on Walnut Street and Bye Street.
	Sewer G.O. Bonds	60,000	Extension of 8" sanitary sewer main on Portsmouth Street to provide sewer to gap area not serviced.
	Sewer G.O. Bonds	40,000	Replace 310 feet of 8 inch clay main on Sanders Street.
	Sewer Capital Transfer	30,000	Interceptor Access Road Maintenance: NH State Prison Fields. Approximately 3,100 linear feet 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).
		\$260,000	2018 Subtotal
2019	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	40,000	Interceptor Access Road Maintenance: Dunbarton Road to Langley Parkway - Phase 1. Approximately 1,450 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$215,000	2019 Subtotal
2020	Sewer Capital Transfer	40,000	Interceptor Access Road Maintenance: Dunbarton Road to Langley Parkway - Phase 2. Approximately 1,450 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
	Sewer Capital Transfer	20,000	Design 4,525 LF of lining on Merrimack Street (Penacook), Village Street (from Stark to Beede), Chandler, Cypress St. and Mooreland.
		\$60,000	2020 Subtotal
2021	Sewer G.O. Bonds	510,000	Line 24" and 8" and 10" sewer main Merrimack (#90 to Penacook St), Village Street (Stark to Beede), Chandler (town line to Elm St.), Cypress Street and Mooreland Avenue.
	Sewer Capital Transfer	40,000	Interceptor Access Road Maintenance: Langley Parkway to Memorial Field - Phase 1. Approximately 1,850 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$550,000	2021 Subtotal

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#91-Sewer Main Rehabilitation and Construction
2022	Sewer Capital Transfer	40,000 Interceptor Access Road Maintenance: Langley Parkway to Memorial Field - Phase 2. Approximately 1,850 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
	Sewer Capital Transfer	20,000 Design the lining of Granite, North State, Martin, Prospect and Jennings. Design 225 of 8 inch main on B Street.
		\$60,000 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	82,000 Replace 225 feet of 8 inch main on B Street.
	Sewer Capital Transfer	40,000 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.
		\$347,000 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	40,000 Interceptor Access Road Maintenance: Cross country from Ridge Rd. to School St - Phase 1. Approximately 1,400 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$440,000 2024 Subtotal
2025	Sewer Capital Transfer	40,000 Interceptor Access Road Maintenance: Cross country from Ridge Rd. to School St - Phase 2. Approximately 1,400 LF of brush and tree clearing, reclaim, rip rap, loam and seed.
		\$40,000 2025 Subtotal
2026	Sewer Capital Transfer	40,000 Interceptor Access Road Maintenance.
		\$40,000 2026 Subtotal
	TOTAL	\$2,012,000



**FY 2018
CIP PROJECT #91**

**SEWER MAIN REHABILITATION
AND CONSTRUCTION**

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Engineering Services Division
City of Concord, New Hampshire

GEOGRAPHIC INFORMATION SYSTEM

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Not to Scale

**2018-2027
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	<u>N/A</u> Safety	<u>L</u> Facility Cond.	<u>N/A</u> Productivity	
	<input type="checkbox"/> Replace	<u>N/A</u> Mandates	<u>M</u> Service Def.	<u>L</u> Tax Base Exp.	<u>M</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>H</u> O + M Costs	<u>H</u> Council Goals	<u>L</u> 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 were completed part of CIP 460 "Downtown Complete Streets Project" in 2015/2016. 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	Tax Increment Financing	0	0	0	0	0	0	400,000	4,000,000	0	0	4,400,000
	Total	0	0	0	0	0	0	400,000	4,000,000	0	0	4,400,000

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
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
	TOTAL	\$4,400,000	

**2018-2027
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 2014 Wastewater Treatment Facilities Evaluation. 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Sewer	G.O. Bonds	1,965,000	1,750,000	1,685,000	2,505,000	5,170,000	1,620,000	1,700,000	17,425,000	75,000	675,000	34,570,000
Sewer	Capital Close-out	60,963	0	0	0	0	0	0	0	0	0	60,963
Sewer	Capital Transfer	0	0	0	0	0	15,000	0	0	0	0	15,000
	Total	2,025,963	1,750,000	1,685,000	2,505,000	5,170,000	1,635,000	1,700,000	17,425,000	75,000	675,000	34,645,963

**2018-2027
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
2018	Sewer G.O. Bonds	1,190,000	Building systems improvements - HVAC system upgrade in administration building.
	Sewer G.O. Bonds	650,000	Building systems improvements - replacement of administration building and influent building standby generator sets.
	Sewer Capital Close-out	60,963	Closeout share. Building systems improvements - HVAC system upgrade in administration building.
	Sewer G.O. Bonds	50,000	Site/Security improvements - Landscape improvements.
	Sewer G.O. Bonds	50,000	Equipment/process improvements - water meter and backflow preventer replacement.
	Sewer G.O. Bonds	25,000	Equipment/process improvements - Process piping, Equipment, and concrete coating.
			\$2,025,963
2019	Sewer G.O. Bonds	875,000	Equipment/process improvements - Replacement of one secondary clarifier.
	Sewer G.O. Bonds	750,000	Building systems improvements - replacement of intermediate pump station motor control centers (MCCs).
	Sewer G.O. Bonds	40,000	Equipment/process improvements - Replacement of waste activated sludge (WAS) pumps and drives.
	Sewer G.O. Bonds	35,000	Site/Security improvements - Landscape improvements.
	Sewer G.O. Bonds	30,000	Equipment/process improvements - Process piping, equipment, and concrete coating improvements.
	Sewer G.O. Bonds	20,000	Site/Security improvements - Biosolids education area.
		\$1,750,000	2019 Subtotal
2020	Sewer G.O. Bonds	900,000	Replace 1 clarifier.
	Sewer G.O. Bonds	750,000	Building System Improvements - Electrical switchgear upgrade.
	Sewer G.O. Bonds	35,000	Equipment/process improvements - Process piping, equipment, and concrete coating improvements.
		\$1,685,000	2020 Subtotal
2021	Sewer G.O. Bonds	920,000	Replace 1 clarifier.
	Sewer G.O. Bonds	600,000	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.

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-SEWER	#104-Hall Street Waste Water Treatment Plant Improvements		
	Sewer G.O. Bonds		350,000	Building System Improvements - Exterior lighting improvements.
	Sewer G.O. Bonds		250,000	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		150,000	Equipment/process improvements - engineering design for aeration system improvements.
	Sewer G.O. Bonds		130,000	Equipment/process improvements - sludge dewatering polymer batch system upgrade.
	Sewer G.O. Bonds		50,000	Equipment/process improvements - Process piping, equipment, and concrete coating improvements.
	Sewer G.O. Bonds		40,000	Equipment/process improvements - primary scum pump and clarifier drain valves replacements.
	Sewer G.O. Bonds		15,000	Equipment/process improvements- Hypochlorite Channel Mixer upgrades.
			\$2,505,000	2021 Subtotal
2022	Sewer G.O. Bonds		1,800,000	Equipment/process improvements - Clarifier drive mechanism replacement.
	Sewer G.O. Bonds		800,000	Equipment/process improvements - Construction of the aeration system improvements.
	Sewer G.O. Bonds		525,000	Equipment/process improvements - Replacement of 3rd of three original equipment screw pumps.
	Sewer G.O. Bonds		425,000	Building System Improvements - 35KV electrical switchgear upgrade.
	Sewer G.O. Bonds		325,000	Building improvements - Concrete / Structural Repairs (tanks and buildings).
	Sewer G.O. Bonds		250,000	Equipment/process improvements - SCADA processor replacement.
	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		210,000	Building System Improvements - Pad mounted electrical transformer upgrades.
	Sewer G.O. Bonds		175,000	Building systems improvements - Intermediate building and chlorine building HVAC upgrades.
	Sewer G.O. Bonds		100,000	Building/structural improvements - Replacement of roof on Administration Building gravity belt thickener room with EDPM membrane roof system.
	Sewer G.O. Bonds		50,000	Equipment/process improvements - Process piping, equipment, and concrete coating replacement.
	Sewer G.O. Bonds		50,000	Equipment/process improvements - Replacement of scum processing equipment.
			\$5,170,000	2022 Subtotal
2023	Sewer G.O. Bonds		500,000	Building/structural improvements - Allowance for concrete/structural repairs.
	Sewer G.O. Bonds		300,000	Building systems improvements - Tunnel separation and lab HVAC upgrades.

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-SEWER	#104-Hall Street Waste Water Treatment Plant Improvements		
	Sewer G.O. Bonds		225,000	Equipment/process improvements - Facilities needs assessment study.
	Sewer G.O. Bonds		135,000	Equipment/process improvements - Replacement of secondary clarifier drain valves and inlet gates.
	Sewer G.O. Bonds		135,000	Equipment/process improvements - Replacement of primary clarifier isolation gates.
	Sewer G.O. Bonds		105,000	Building System Improvements - Lighting improvements.
	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, as well as various repairs to the Administration Building.
	Sewer G.O. Bonds		50,000	Equipment/process improvements - Process piping, equipment, and concrete coating improvements.
	Sewer G.O. Bonds		15,000	Equipment/process improvements - Replacement of influent channel mixer.
	Sewer Capital Transfer		15,000	Equipment/process improvements - Replacement of all wheel drive mower.
			\$1,635,000	2023 Subtotal
2024	Sewer G.O. Bonds		1,500,000	Equipment/process improvements - Design services for sludge stabilization and dewatering system upgrade
	Sewer G.O. Bonds		175,000	Building systems improvements - Influent building HVAC upgrades.
	Sewer G.O. Bonds		25,000	Equipment/process improvements - Process piping, equipment, and concrete coating upgrades.
			\$1,700,000	2024 Subtotal
2025	Sewer G.O. Bonds		15,000,000	Equipment/process improvements - Construction of sludge stabilization and dewatering system upgrades designed in FY2024.
	Sewer G.O. Bonds		2,000,000	Equipment/process improvements - Sludge dewatering system upgrades.
	Sewer G.O. Bonds		250,000	Equipment/process improvements - Sludge truck loading conveyor upgrades.
	Sewer G.O. Bonds		150,000	Building /structural improvements - Out buildings repairs and interior refinishes.
	Sewer G.O. Bonds		25,000	Equipment/process improvements - Process piping, equipment, and concrete coating upgrades.
			\$17,425,000	2025 Subtotal
2026	Sewer G.O. Bonds		50,000	Equipment/process improvements - Design services for aeration diffuser system replacement.
	Sewer G.O. Bonds		25,000	Equipment/process improvements - Process piping, equipment, and concrete coating upgrades.
			\$75,000	2026 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-SEWER	#104-Hall Street Waste Water Treatment Plant Improvements		
2027	Sewer G.O. Bonds	400,000		Equipment/process improvements - Construction of aeration diffuser system replacement designed in FY2026.
	Sewer G.O. Bonds	250,000		Equipment/process improvements - SCADA system improvements.
	Sewer G.O. Bonds	25,000		Equipment/process improvements - Process piping, equipment, and concrete coating upgrades.
		\$675,000		2027 Subtotal
TOTAL		\$34,645,963		

**2018-2027
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: New L Safety M Facility Cond. H Productivity
 Replace N/A Mandates M Service Def. L Tax Base Exp. M City Master Pl.
 Rebuild M O + M Costs L Council Goals M Timeliness Parks
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this project is to maintain buildings at the Beaver Meadow Golf Course. Building facilities include the Clubhouse (Pro Shop, Restaurant, and related amenities), the Maintenance Facility, as well as the 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Golf	Capital Transfer	0	0	0	0	25,000	0	0	0	0	0	25,000
Golf	G.O. Bonds	16,000	0	0	0	45,000	0	0	0	0	100,000	161,000
	Total	16,000	0	0	0	70,000	0	0	0	0	100,000	186,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Golf G.O. Bonds	16,000	Purchase a new Point of Sale (POS) software package in order to improve tee-time management, management of Pro Shop inventory, as well as collect better data regarding player preferences so the City may adjust business practices in order to better serve its patrons.
		\$16,000	2018 Subtotal
2022	Golf Capital Transfer	25,000	Replace kitchen equipment.
	Golf G.O. Bonds	25,000	Replace clubhouse furniture.
	Golf G.O. Bonds	20,000	Carpet and floor treatment replacements throughout the clubhouse.
		\$70,000	2022 Subtotal
2027	Golf G.O. Bonds	100,000	Final design of new club house. New building scheduled to be built in FY2028.
		\$100,000	2027 Subtotal
	TOTAL	\$186,000	

**2018-2027
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:	<input type="checkbox"/> New	<input type="checkbox"/> M Safety	<input type="checkbox"/> M Facility Cond.	<input type="checkbox"/> N/A Productivity	
	<input 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"/> N/A O + M Costs	<input type="checkbox"/> N/A Council Goals	<input type="checkbox"/> M Timeliness	Water
	<input type="checkbox"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	0	0	0	0	0	0	0	175,000	2,000,000	0	2,175,000
	Total	0	0	0	0	0	0	0	175,000	2,000,000	0	2,175,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	Water G.O. Bonds	175,000	Engineering forensic investigation, report and design of the Penacook Lake dam and spillway.
		\$175,000	2025 Subtotal
2026	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.
		\$2,000,000	2026 Subtotal
	TOTAL	\$2,175,000	

**2018-2027
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="text" value="M"/> Safety	<input type="text" value="N/A"/> Facility Cond.	<input type="text" value="L"/> 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="H"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="text" value="N/A"/> O + M Costs	<input type="text" value="L"/> Council Goals	<input type="text" 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 Department vehicles and heavy equipment. Vehicle and equipment replacement for the Police and Fire Departments are addressed through other capital improvement program projects or the annual 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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	40,000	157,000	95,000	290,000	160,000	0	100,000	110,000	60,000	60,000	1,072,000
General	G.O. Bonds	498,000	682,000	715,000	702,000	723,000	720,000	705,000	685,000	765,000	790,000	6,985,000
Sewer	G.O. Bonds	150,000	156,000	185,000	190,000	160,000	450,000	342,000	75,000	160,000	100,000	1,968,000
General	Capital Close-out	152,300	0	0	0	0	0	0	0	0	0	152,300
General	Equip Replace Reserve	102,000	0	0	0	0	0	0	0	0	0	102,000
	Total	942,300	995,000	995,000	1,182,000	1,043,000	1,170,000	1,147,000	870,000	985,000	950,000	10,279,300

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	330,000	Replace 3 highway backhoes (2006, 2007) unit #086, 1342 & 1343
	General G.O. Bonds	130,000	Replace 1988 snow blower. Unit #001 HWY
	General Equip Replace Reserve	102,000	Equipment Reserve Fund share. Replace 3 highway backhoes (2006, 2007) unit #086, 1342 & 1343
	Sewer G.O. Bonds	76,000	Replace one ton crew cab "brick" truck (2004) 135
	General Capital Close-out	70,000	Replace two (2) F-250 4X4 pick-up trucks (Units # 654, 655) (2006)
	General Capital Close-out	70,000	Replace cemetery F450 pick-up with dump body (2006) unit #601
	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 one 4-ton asphalt hauler (1999) unit #066
	Sewer G.O. Bonds	34,000	One 5 door hatchback sedan (2009) unit #876
	General Capital Close-out	12,300	Replace stainless steel 1.5cy sander (2000) unit #0601SS
			\$942,300
2019	General G.O. Bonds	412,000	Replace 4- F450 4x4 pick-up trucks #1103,1104,1105, 669 (2009,2009,2009,2009)
	General G.O. Bonds	150,000	Replace Cemetery back-hoe #616 (2004)
	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 units #802 & 803 (2010, 2010)

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program
	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 unit #651 (2006)
	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
	Water G.O. Bonds	36,000 Replace tow behind compressor (2001) unit #409
		\$995,000 2019 Subtotal
2020	General G.O. Bonds	270,000 Replace wheel loader #90
	General G.O. Bonds	190,000 Replace 1 tree bucket truck (2008) unit #667
	Sewer G.O. Bonds	185,000 Replace 6 wheel dump truck unit #753 S UTIL/COM
	General G.O. Bonds	100,000 Replace gang mower 164 unit #670
	Water G.O. Bonds	95,000 Replace 1 F550 2wd pick-up truck (2008) unit #822
	General G.O. Bonds	65,000 Replace airport/properties 1-ton pick-up truck with dump body (2005) unit #901
	General G.O. Bonds	33,000 Replace 4X2 1 supercab pick-up truck (2010) unit #458
	General G.O. Bonds	21,000 Replace 1 sweeper trailer (2003) unit #188
	General G.O. Bonds	21,000 Replace 1 low bed tilt top trailer (2004) unit #185
	General G.O. Bonds	15,000 Replace 1- 20' trailer (2002) unit #189
		\$995,000 2020 Subtotal
2021	General G.O. Bonds	380,000 Replace two 6-wheel dump trucks units #1225 & 1224
	Sewer G.O. Bonds	190,000 Replace 6 Wheel Dump Truck Unit #704
	Water G.O. Bonds	190,000 Replace 1 six wheel dump truck "D79" (2006) unit 1226
	General G.O. Bonds	66,000 Replace John Deere Tractor. Grounds/COMF unit #665
	General G.O. Bonds	62,000 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 2WD pickup 3500 (2008) unit #902
	Water G.O. Bonds	50,000 Replace Transit Connect compressed natural gas (CNG) van unit #754

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program	
	Water G.O. Bonds	50,000	Replace Transit Connect CNG van unit #804
	General G.O. Bonds	42,000	Replace 1 4x4 2500 series pick-up truck (2008) unit #903
	General G.O. Bonds	36,000	Replace 1 1/2-ton supercab pick-up truck (2008) unit #904
		\$1,182,000	2021 Subtotal
2022	General G.O. Bonds	190,000	Replace 1 six wheel dump (2006) unit #1227
	General G.O. Bonds	185,000	Replace Trackless Sidewalk Tractors HWY/COMF unit #1365
	Sewer G.O. Bonds	160,000	Replace Case Loader/Backhoe unit #723
	Water G.O. Bonds	160,000	Replace Case Loader/Backhoe unit #823
	General G.O. Bonds	112,000	Replace two (2) skid steer units #1361 and 1362
	General G.O. Bonds	80,000	Replace 2 leaf blowers and boxes (1999,1998) units #049 and 050 HWY
	General G.O. Bonds	56,000	Replace one (1) skid steer unit #1360
	General G.O. Bonds	40,000	Replace leaf loader (2000) CEM unit #190
	General G.O. Bonds	40,000	Replace Tarco Leaf Loader Unit #197 Hwy/COMF
	General G.O. Bonds	20,000	Replace 11 cy sander unit #1230SS
		\$1,043,000	2022 Subtotal
2023	Sewer G.O. Bonds	450,000	Replace 10 wheel vactor truck unit #711
	General G.O. Bonds	290,000	Replace 1 front end bucket loader (2001) unit #025
	General G.O. Bonds	195,000	Replace 6-wheel dump trucks (2008) unit #1228
	General G.O. Bonds	185,000	Replace Sidewalk Tractor (2012) unit #1366
	General G.O. Bonds	25,000	Replace saltmarsh trailer unit #115 (GSD/Public Properties)
	General G.O. Bonds	25,000	Tandem trailer unit #061
		\$1,170,000	2023 Subtotal
2024	Sewer G.O. Bonds	342,000	Replace truck sludge hauler (2001) unit #112
	General G.O. Bonds	230,000	Replace one 10-wheel dump truck (2009) unit 1230
	General G.O. Bonds	195,000	Replace 6 Wheel Dump Truck (2011) unit #1234

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program	
	Water G.O. Bonds	60,000	Replace Crew Cab utility body F350 unit #825
	Water G.O. Bonds	40,000	Replace Extra Cab pickup unit #824
	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 #445 CD/COMF
	General G.O. Bonds	36,000	Replace 2 (two) 6 CY sanders unit #1231SS and 1232SS
	General G.O. Bonds	36,000	Replace Tow Behind Comp (2001) unit #407
	General G.O. Bonds	32,000	Replace Rosco Roller (1991) unit #72
	General G.O. Bonds	25,000	Replace 5 Ton Tandem Trailer (2000) unit #64
	General G.O. Bonds	21,000	Replace stainless steel 11cy Sander (1998) unit #54SS
	General G.O. Bonds	20,000	Replace 6 ton utility trailer GRNDS/COMF unit #652
	General G.O. Bonds	15,000	Replace Spreader 1.5CY (2004) unit #875SS
	General G.O. Bonds	15,000	Replace stainless steel 3.4CY Sander (2004) unit #901SS
		\$1,147,000	2024 Subtotal
2025	General G.O. Bonds	390,000	Replace Two (2)6 Wheel Dump Trucks (2008) units #1229 & #1233
	General G.O. Bonds	205,000	Replace Sidewalk Tractor (2014) unit #1367
	Sewer G.O. Bonds	75,000	Replace Ford F-350 pickup unit #755
	Water G.O. Bonds	65,000	Replace Ford F- 350 pickup unit #877
	General G.O. Bonds	48,000	Replace 3 (Three) 3.4 cy sanders units #0669SS, #1104SS & 1105SS
	Water G.O. Bonds	45,000	Replace Ford F-150 extra cab pickup # 826
	General G.O. Bonds	42,000	Cargo van unit #602
		\$870,000	2025 Subtotal
2026	General G.O. Bonds	675,000	Replace Three (3) Dump Trucks (2013) units #1235, 1236, and 1237
	Sewer G.O. Bonds	100,000	Cut-away Van (camera) unit #712
	General G.O. Bonds	90,000	Replace 3 (three) 11CY sanders units #1235SS, 1236SS, and 237SS
	Water G.O. Bonds	60,000	4x4 Pickup unit #827
	Sewer G.O. Bonds	60,000	Replace 4x4 Pickup unit #713

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#121-Vehicle & Equipment Replacement Program	
		\$985,000	2026 Subtotal
2027	General G.O. Bonds	390,000	Replace Two (2) Dump Trucks (2011) units #1231 and 1232
	General G.O. Bonds	300,000	Wheel Loader unit #1302
	Sewer G.O. Bonds	100,000	4x2 Crew Cab pickup truck unit #706
	General G.O. Bonds	100,000	Service truck unit #009
	Water G.O. Bonds	60,000	C1500 4x2 pickup unit #879
		\$950,000	2027 Subtotal
	TOTAL	\$10,279,300	

**2018-2027
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: 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: The purpose of this project is to provide for routine replacement and upgrading of the SCADA (Supervisory, Control and Data Acquisition) software system which assists with monitoring and operating equipment at the Water Treatment Plant, as well as water tanks and remote pump stations.

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 knowledgeably 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	Capital Transfer	30,000	0	30,000	0	30,000	0	30,000	0	30,000	0	150,000
	Total	30,000	0	30,000	0	30,000	0	30,000	0	30,000	0	150,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water Capital Transfer	30,000	SCADA equipment and software updates.
		\$30,000	2018 Subtotal
2020	Water Capital Transfer	30,000	SCADA equipment and software updates.
		\$30,000	2020 Subtotal
2022	Water Capital Transfer	30,000	SCADA equipment and software updates.
		\$30,000	2022 Subtotal
2024	Water Capital Transfer	30,000	SCADA equipment and software updates.
		\$30,000	2024 Subtotal
2026	Water Capital Transfer	30,000	SCADA equipment and software updates.
		\$30,000	2026 Subtotal
	TOTAL	\$150,000	

**2018-2027
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, Combined Operations & Maintenance Facility, Water Treatment Plant, Parks & Recreation, Library, Police Department, Prosecutor's Office, Human Services Department, Fire Department Headquarters, Hall Street and Penacook Wastewater Treatment Plants, Beaver Meadow Golf Course Pro Shop. Public Properties Office and Blossom Hill Cemetery Office.

III. PROJECT OBJECTIVES AND BACKGROUND

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

DESCRIPTION: Programmed replacement of 26 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 multi-function 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 after 7 years.

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

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2017 PREVIOUS AMOUNT: 37,500

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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	30,000	21,000	28,000	7,000	39,000	65,000	22,000	35,000	8,000	41,000	296,000
	Total	30,000	21,000	28,000	7,000	39,000	65,000	22,000	35,000	8,000	41,000	296,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General Capital Transfer	30,000	Replace networked multifunctional copier/printer/scanner for the following City departments (locations): Assessing (City Hall), Fire (Fire Headquarters), Library (Main Floor).and Police, Records (CPD Headquarters)
		\$30,000	2018 Subtotal
2019	General Capital Transfer	21,000	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): General Services Admin (COMF); Community Development Code Enforcement (City Hall Annex) and Parks & Recreation (City-wide Multigenerational Community Center).
		\$21,000	2019 Subtotal
2020	General Capital Transfer	28,000	Replace networked multi-functional copier/printer/scanner for the following City department (location): Finance, Purchasing (COMF), Finance, OMB (City Hall), Finance, Accounting (City Hall).
		\$28,000	2020 Subtotal
2021	General Capital Transfer	7,000	Replace networked multi-functional copier/printer/scanner for the following City department (location): Finance, Collections (City Hall).
		\$7,000	2021 Subtotal
2022	General Capital Transfer	39,000	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): Multiple departments (2nd Floor City Hall), Multiple departments (3rd Floor City Hall), Legal (Prosecutor's Office).
		\$39,000	2022 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	FINANCE PURCHASING	#130-Multi-Function Photocopy Machines	
2023	General Capital Transfer	65,000	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), Library, Admin (2nd floor Library), Police, Administration (CPD HQs, 3rd Floor), General Services, Wastewater Treatment (Hall St. WWTF) and Police, Records (CPD Headquarters).
		\$65,000	2023 Subtotal
2024	General Capital Transfer	22,000	Replace networked multi-functional copiers/printers/scanners for the following City departments (locations): General Services Admin (COMF); Community Development Code Enforcement (City Hall Annex) and Parks & Recreation (Heights Community Center).
		\$22,000	2024 Subtotal
2025	General Capital Transfer	35,000	Replace networked multi-functional copier/printer/scanner for the following City department (location): Finance, Purchasing (COMF), Finance, OMB (City Hall); Finance, Accounting (City Hall) and Library (Main Floor).
		\$35,000	2025 Subtotal
2026	General Capital Transfer	8,000	Replace networked multi-functional copier/printer/scanner for the following City department (location): Finance, Collections (City Hall).
		\$8,000	2026 Subtotal
2027	General Capital Transfer	41,000	Replace networked multi-functional copiers/printers/scanners for the following City Departments (locations): Multiple departments (2nd Floor City Hall), Multiple departments (3rd Floor City Hall) and Legal (Prosecutor's Office).
		\$41,000	2027 Subtotal
	TOTAL	\$296,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #230-Opticom Replacement

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: This project provides funding for systematic replacement of "Opticom" units throughout the City. Opticom units allow emergency vehicles to control traffic signals when responding to emergencies. Presently, Opticom units are located at 56 intersections, all 4 fire station driveways, as well as 5 signalized pedestrian crosswalks on Loudon Road.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Highway Reserve	15,000	0	15,000	0	15,000	0	15,000	0	20,000	0	80,000
	Total	15,000	0	15,000	0	15,000	0	15,000	0	20,000	0	80,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #230-Opticom Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
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
2026	General Highway Reserve	20,000	Opticom replacement. (City Wide)
		\$20,000	2026 Subtotal
	TOTAL	\$80,000	

**2018-2027
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	<input type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
SERVED:	<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"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this project it is make routine investments to preserve and improve the grounds at the golf course. Improvements typically consist of greens rehabilitation, tee renovations, resurfacing of golf cart paths, irrigation improvements, and improvements to fairways.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	138,000	270,000	0	0	0	0	0	0	0	0	408,000
Golf	Capital Close-out	20,794	15,644	0	0	0	0	0	0	0	0	36,438
Golf	G.O. Bonds	47,000	1,015,000	10,000	10,000	50,000	0	0	0	0	0	1,132,000
	Total	205,794	1,300,644	10,000	10,000	50,000	0	0	0	0	0	1,576,438

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	138,000	Design and construct improvements to the irrigation system pump house and related appurtenances.
	Golf G.O. Bonds	40,000	Improvements to bunkers at various holes.
	Golf Capital Close-out	20,794	Closeout share. Bunker improvements.
	Golf G.O. Bonds	7,000	Irrigations system improvements - Golf Fund Share.
		\$205,794	2018 Subtotal
2019	Golf G.O. Bonds	900,000	Irrigation system improvements as recommended in 2008 Needs Assessment report.
	General G.O. Bonds	270,000	Parking Lot improvements. (Reclaim & pave). General Fund share.
	Golf G.O. Bonds	65,000	Purchase tent, chairs and tables for use of outings and other outside events. Adding a tent for events will allow course to attract more outings and events to the course.
	Golf G.O. Bonds	50,000	Golf Fund share.
	Golf Capital Close-out	15,644	Closeout Share of Parking Lot Improvements.
		\$1,300,644	2019 Subtotal
2020	Golf G.O. Bonds	10,000	Expand tee boxes
		\$10,000	2020 Subtotal
2021	Golf G.O. Bonds	10,000	Expand tee boxes.
		\$10,000	2021 Subtotal
2022	Golf G.O. Bonds	50,000	Reconstruction of cart paths.
		\$50,000	2022 Subtotal
	TOTAL	\$1,576,438	

**2018-2027
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	<u>N/A</u> Safety	<u>N/A</u> Facility Cond.	<input type="checkbox"/> Productivity
	<input checked="" type="checkbox"/> Replace	<u>N/A</u> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp. <u>N/A</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>N/A</u> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	Capital Transfer	160,000	125,000	100,000	100,000	125,000	125,000	125,000	150,000	150,000	175,000	1,335,000
	Total	160,000	125,000	100,000	100,000	125,000	125,000	125,000	150,000	150,000	175,000	1,335,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water Capital Transfer	160,000	Phased installation of meters and reading devices. 500 units.
		<u>\$160,000</u>	2018 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-WATER	#244-Water Meter Replacement Program		
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
2026	Water Capital Transfer		150,000	Phased installation of meters and reading devices. 600 units.
			\$150,000	2026 Subtotal
2027	Water Capital Transfer		175,000	Phased installation of meters and reading devices. 600 units.
			\$175,000	2027 Subtotal
	TOTAL		\$1,335,000	

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Sewer	Capital Outlay	58,000	59,500	61,500	63,500	65,500	67,500	70,000	71,500	74,000	76,500	667,500
	Total	58,000	59,500	61,500	63,500	65,500	67,500	70,000	71,500	74,000	76,500	667,500

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Sewer Capital Outlay	58,000	Emergency/unanticipated capital equipment replacement.
		<u>\$58,000</u>	2018 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-SEWER	#245-Emergency Sewage Treatment Plant Repairs		
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	70,000		Emergency/unanticipated capital equipment replacement.
		\$70,000		2024 Subtotal
2025	Sewer Capital Outlay	71,500		Emergency/unanticipated capital equipment replacement.
		\$71,500		2025 Subtotal
2026	Sewer Capital Outlay	74,000		Emergency/unanticipated capital equipment replacement.
		\$74,000		2026 Subtotal
2027	Sewer Capital Outlay	76,500		Emergency/unanticipated capital equipment replacement.
		\$76,500		2027 Subtotal
	TOTAL	\$667,500		

**2018-2027
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"/> H	Safety	<input type="checkbox"/> H	Facility Cond.	<input type="checkbox"/> H	Productivity	
	<input checked="" 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"/> 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"/> H	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 1966 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #252-Fire Station Improvements

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	100,000	125,000	71,500	0	0	350,000	35,000	0	0	0	681,500
	Total	100,000	125,000	71,500	0	0	350,000	35,000	0	0	0	681,500

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	100,000	Replacement of Roof at Central Fire Station.
		\$100,000	2018 Subtotal
2019	General G.O. Bonds	125,000	Installation of Engine Exhaust Removal Systems at 4 fire stations.
		\$125,000	2019 Subtotal
2020	General G.O. Bonds	71,500	Comprehensive facilities needs assessment / master plan for the 4 fire stations.
		\$71,500	2020 Subtotal
2023	General G.O. Bonds	350,000	Improvements to paved parking areas at Heights, Broadway, and Central Fire Stations.
		\$350,000	2023 Subtotal
2024	General G.O. Bonds	35,000	Study of station locations citywide to develop fire station location master plan.
		\$35,000	2024 Subtotal
	TOTAL	\$681,500	

**2018-2027
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	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="H"/> Facility Cond.	<input type="checkbox" value="L"/> Productivity	
SERVED:	<input checked="" 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="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	
	<input type="checkbox"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	Capital Outlay	56,000	58,000	60,000	62,000	64,000	66,000	68,000	70,000	72,000	75,000	651,000
	Total	56,000	58,000	60,000	62,000	64,000	66,000	68,000	70,000	72,000	75,000	651,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water Capital Outlay	56,000	Emergency/unanticipated replacement of capital equipment.
		<u>\$56,000</u>	2018 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-WATER	#254-Water System Emergency/Unanticipated Equipment Replacement		
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
2026	Water Capital Outlay	72,000		Emergency/unanticipated replacement of capital equipment.
		\$72,000		2026 Subtotal
2027	Water Capital Outlay	75,000		Emergency/unanticipated replacement of capital equipment.
		\$75,000		2027 Subtotal
	TOTAL	\$651,000		

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	Trust	0	0	0	0	0	0	0	0	50,000	0	50,000
Sewer	G.O. Bonds	305,000	75,000	57,500	50,000	730,000	105,000	90,000	130,000	0	0	1,542,500
Sewer	Mountain Green Reserve	0	0	0	20,000	50,000	300,000	0	0	0	0	370,000
	Total	305,000	75,000	57,500	70,000	780,000	405,000	90,000	130,000	50,000	0	1,962,500

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Sewer G.O. Bonds	305,000	East Concord Pump Station refurbishment. Electrical components and emergency generator (1978 vintage).
		\$305,000	2018 Subtotal
2019	Sewer G.O. Bonds	75,000	Steeplegate Mall Pump Station - replacement pumps and motor sets.
		\$75,000	2019 Subtotal
2020	Sewer G.O. Bonds	57,500	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.
		\$57,500	2020 Subtotal
2021	Sewer G.O. Bonds	50,000	Hannah Dustin Pump Station - Design engineering services for pump station upgrades and generator replacement.
	Sewer Mountain Green Reserve	20,000	Mountain Green South - generator replacement
		\$70,000	2021 Subtotal
2022	Sewer G.O. Bonds	440,000	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	200,000	East Concord Pump Station - roof replacement.
	Sewer Mountain Green Reserve	50,000	Mountain Green North Pump Station - Design engineering services for north pump station and standby generator replacement.
	Sewer G.O. Bonds	40,000	Loudon Road Pump Station - install secondary valve vault, new isolation valves, pump guide rails, and discharge piping at Loudon Road pump station.
	Sewer G.O. Bonds	30,000	Chenell Drive Pump Station - Sewage grinder replacement.
	Sewer G.O. Bonds	20,000	Steeplegate Mall Pump Station - generator replacement.
		\$780,000	2022 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-SEWER	#275-Sewer Pump Station Improvements		
2023	Sewer Mountain Green Reserve	300,000		Mountain Green North Pump Station - Construction of north pump station improvements designed in FY22
	Sewer G.O. Bonds	85,000		Chenell Drive, Steeplegate Mall, Antrim Avenue Pump Stations - Electrical distribution system upgrades.
	Sewer G.O. Bonds	20,000		Chennell Drive - pump and motor replacement.
		\$405,000	2023 Subtotal	
2024	Sewer G.O. Bonds	75,000		Chenell Drive Pump Station - Pump / motor replacement.
	Sewer G.O. Bonds	15,000		Steeplegate Mall Pump Station - grinder replacement.
		\$90,000	2024 Subtotal	
2025	Sewer G.O. Bonds	70,000		East Concord Pump Station - lighting system, electrical boxes & raceways, and plumbing system upgrades.
	Sewer G.O. Bonds	60,000		Purchase a portable generator.
		\$130,000	2025 Subtotal	
2026	Other Trust	50,000		Mountain Green Pump Stations - Facility upgrades.
		\$50,000	2026 Subtotal	
	TOTAL	\$1,962,500		

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	175,000	0	0	0	0	0	0	0	0	175,000
	Total	0	175,000	0	0	0	0	0	0	0	0	175,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	175,000	Contract consultant services for a complete municipal building assessment. DuBois & King report update.
		\$175,000	2019 Subtotal
	TOTAL	\$175,000	

**2018-2027
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: New Safety Facility Cond. Productivity
 Replace Mandates Service Def. Tax Base Exp. City Master Pl.
 Rebuild O + M Costs Council Goals Timeliness Corridor Improvements
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: The purpose of this project is to make investments in traffic and pedestrian signal improvements in order to achieve improved traffic operations, safety enhancements, as well as implement 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	20,000	30,000	30,000	200,000	25,000	25,000	225,000	25,000	25,000	200,000	805,000
	Total	20,000	30,000	30,000	200,000	25,000	25,000	225,000	25,000	25,000	200,000	805,000

**2018-2027
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
2018	General G.O. Bonds	20,000	N Main/Bouton/I-393 – Complete intersection equipment replacements started in FY2017 including: signal heads with reflectorized back plates; new blank-out sign; and accessible pedestrian push button stations.
		\$20,000	2018 Subtotal
2019	General G.O. Bonds	30,000	N State/Centre – Convert Centre Street eastbound left turn lane to Flashing Yellow Arrow operation and add accessible pedestrian push button stations.
			Ft Eddy/Ft Eddy Plaza – Replace underground wiring
		\$30,000	2019 Subtotal
2020	General G.O. Bonds	30,000	N Main/Washington-Ferry – Replace select signal heads, install reflectorized back plates and replace underground wiring.
			Pleasant Ext/Storrs – Convert Storrs Street northbound and southbound left turn lanes to Flashing Yellow Arrow operation.
		\$30,000	2020 Subtotal
2021	General G.O. Bonds	175,000	Pleasant/State Intersection - Replace existing traffic signal mast arm supports and install new signal equipment including accessible pedestrian push button stations. Improve sidewalk corners, crosswalk geometry and pavement graphics.
	General G.O. Bonds	25,000	Downtown Pedestrian Signal Improvements Phase 1 of 7: Complete the installation of countdown pedestrian signals and accessible pedestrian push button stations at one of the following downtown intersections (N Main/Washington-Ferry; Centre/Green; N State/Capital; N State/School; N State/Warren; S State/West; Pleasant Ext/Storrs; and S Main/Storrs). Budget amount is for one year of a seven-year replacement program.
		\$200,000	2021 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#283-Traffic Signals and Traffic Operations Improvements
2022	General G.O. Bonds	25,000 Downtown Pedestrian Signal Improvements Phase 2 of 7: Complete the installation of countdown pedestrian signals and accessible pedestrian push button stations at the following downtown intersections (N Main/Washington-Ferry; Centre/Green; N State/Capital; N State/School; N State/Warren; S State/West; Pleasant Ext/Storrs; and S Main/Storrs). Budget amount is for one year of a seven-year replacement program.
		\$25,000 2022 Subtotal
2023	General G.O. Bonds	25,000 Downtown Pedestrian Signal Improvements Phase 3 of 7: Complete the installation of countdown pedestrian signals and accessible pedestrian push button stations at one of the following downtown intersections (N Main/Washington-Ferry; Centre/Green; N State/Capital; N State/School; N State/Warren; S State/West; Pleasant Ext/Storrs; and S Main/Storrs). Budget amount is for one year of a seven-year replacement program.
		\$25,000 2023 Subtotal
2024	General G.O. Bonds	200,000 Pleasant/Green – Replace existing traffic signal equipment with new equipment including mast arms, controller cabinet, countdown pedestrian signals, accessible push button stations, and video detection. Improve sidewalk corners, crosswalk geometry and pavement graphics.
	General G.O. Bonds	25,000 Downtown Pedestrian Signal Improvements Phase 4 of 7: Complete the installation of countdown pedestrian signals and accessible pedestrian push button stations at one of the following downtown intersections (N Main/Washington-Ferry; Centre/Green; N State/Capital; N State/School; N State/Warren; S State/West; Pleasant Ext/Storrs; and S Main/Storrs). Budget amount is for one year of a seven-year replacement program.
		\$225,000 2024 Subtotal
2025	General G.O. Bonds	25,000 Downtown Pedestrian Signal Improvements Phase 5 of 7: Complete the installation of countdown pedestrian signals and accessible pedestrian push button stations at one of the following downtown intersections (N Main/Washington-Ferry; Centre/Green; N State/Capital; N State/School; N State/Warren; S State/West; Pleasant Ext/Storrs; and S Main/Storrs). Budget amount is for one year of a seven-year replacement program.
		\$25,000 2025 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#283-Traffic Signals and Traffic Operations Improvements	
2026	General G.O. Bonds	25,000	Downtown Pedestrian Signal Improvements Phase 6 of 7: Complete the installation of countdown pedestrian signals and accessible pedestrian push button stations at one of the following downtown intersections (N Main/Washington-Ferry; Centre/Green; N State/Capital; N State/School; N State/Warren; S State/West; Pleasant Ext/Storrs; and S Main/Storrs). Budget amount is for one year of a seven-year replacement program.
		\$25,000	2026 Subtotal
2027	General G.O. Bonds	175,000	Pleasant/Spring – Replace existing traffic signal equipment with new equipment including mast arms, controller cabinet, countdown pedestrian signals, accessible push button stations, and video detection. Improve sidewalk corners, crosswalk geometry and pavement graphics.
	General G.O. Bonds	25,000	Downtown Pedestrian Signal Improvements Phase 7 of 7: Complete the installation of countdown pedestrian signals and accessible pedestrian push button stations at one of the following downtown intersections (N Main/Washington-Ferry; Centre/Green; N State/Capital; N State/School; N State/Warren; S State/West; Pleasant Ext/Storrs; and S Main/Storrs). Budget amount is for one year of a seven-year replacement program.
		\$200,000	2027 Subtotal
TOTAL		\$805,000	

**2018-2027
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	<u>N/A</u>	Safety	<u>N/A</u>	Facility Cond.	<u>M</u>	Productivity	
	<input type="checkbox"/> Replace	<u>N/A</u>	Mandates	<u>M</u>	Service Def.	<u>N/A</u>	Tax Base Exp.	<u>N/A</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>H</u>	O + M Costs	<u>L</u>	Council Goals	<u>N/A</u>	Timeliness	Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

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 the City conducts 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.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2006

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

5

Expected Bond Term (in Years)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	Capital Transfer	3,000	3,000	3,000	3,500	3,500	3,500	3,500	3,500	3,500	3,500	33,500
General	Capital Transfer	3,000	144,000	3,000	3,500	3,500	73,500	3,500	3,500	3,500	3,500	244,500
General	G.O. Bonds	125,000	0	150,000	0	0	0	0	0	0	0	275,000
Sewer	Capital Transfer	3,000	3,000	3,000	3,500	3,500	3,500	3,500	3,500	3,500	3,500	33,500
Total		134,000	150,000	159,000	10,500	10,500	80,500	10,500	10,500	10,500	10,500	586,500

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	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)
	General Capital Transfer	3,000	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
	Water Capital Transfer	3,000	GIS Layer Development. (Water Portion)
		\$134,000	2018 Subtotal
2019	General Capital Transfer	125,000	Tax Map Update Phase 6.
	General Capital Transfer	16,000	Replace Large Format Digital Plotter/Scanner.
	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.
		\$150,000	2019 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#297-Geographic Information Systems (GIS)
2020	General G.O. Bonds	150,000 Update of GIS topographic and planimetric data. 10-year mapping update with high resolution imagery to all GIS digital layers including ground and water surfaces, buildings, utilities, and misc. features.
	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)
		\$159,000 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	70,000 Survey Grade GPS System - Survey grade Global Positioning System (GPS) receiver and data collector for design data layout, control and mapping.
	Sewer Capital Transfer	3,500 GIS Layer Development. (Sewer Portion)
	Water Capital Transfer	3,500 GIS Layer Development. (Water Portion)
	General Capital Transfer	3,500 GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
		\$80,500 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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#297-Geographic Information Systems (GIS)	
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
2026	General Capital Transfer	3,500	GIS Layer Development - See GIS Master Plan. Funding for GIS Interns.
	Water Capital Transfer	3,500	GIS Layer Development. (Water Portion)
	Sewer Capital Transfer	3,500	GIS Layer Development. (Sewer Portion)
		\$10,500	2026 Subtotal
2027	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.
	Water Capital Transfer	3,500	GIS Layer Development. (Water Portion)
		\$10,500	2027 Subtotal
	TOTAL	\$586,500	

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	30,000	0	0	0	0	0	0	0	0	700,000	730,000
	Total	30,000	0	0	0	0	0	0	0	0	700,000	730,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	30,000	Replacement of Telephone Switch in Dispatch Center.
		\$30,000	2018 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	FIRE #305-Fire Department Communications Equipment		
2027	General G.O. Bonds	700,000	Portable Radio Replacement.
		\$700,000	2027 Subtotal
	TOTAL	\$730,000	

**2018-2027
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: 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: 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 select portions of the 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	60,000	0	90,000	0	50,000	0	0	0	40,000	0	240,000
	Total	60,000	0	90,000	0	50,000	0	0	0	40,000	0	240,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water G.O. Bonds	30,000	Demand Management Plan.
	Water G.O. Bonds	30,000	Hydraulic Model Update.
		\$60,000	2018 Subtotal
2020	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	2020 Subtotal
2022	Water G.O. Bonds	50,000	Update the water model developed in Phase III of the 2008 Water Master Plan.
		\$50,000	2022 Subtotal
2026	Water G.O. Bonds	40,000	Update the Master Plan completed in 2010.
		\$40,000	2026 Subtotal
	TOTAL	\$240,000	

**2018-2027
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 Department, as well as transportation operations for the Concord Union School District.

SERVICE IMPACT: Routine investments will prolong the useful life of the facility thereby reducing long-term operating and repair costs. Investments will also help reduce long-term energy costs, maintain safety for employees, safeguard vehicles and equipment, as well as maintain employee morale.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	252,000	315,000	240,000	260,000	80,000	50,000	30,000	100,000	0	0	1,327,000
Sewer	G.O. Bonds	149,000	147,500	95,000	95,000	40,000	25,000	15,000	50,000	0	0	616,500
Water	G.O. Bonds	149,000	147,500	95,000	95,000	40,000	25,000	15,000	50,000	0	0	616,500
	Total	550,000	610,000	430,000	450,000	160,000	100,000	60,000	200,000	0	0	2,560,000

**2018-2027
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
2018	General G.O. Bonds	110,000	Roof coating phase II of III.
	General G.O. Bonds	75,000	Replace Public Properties facility roof at 115 Hall Street. (Original roof circa 1981)
	Sewer G.O. Bonds	65,000	Roof coating phase II of III.
	Water G.O. Bonds	65,000	Roof coating phase II of III.
	General G.O. Bonds	55,000	Slot drain repair in Vehicle Storage Building.
	Water G.O. Bonds	50,000	Replace Public Properties facility roof at 115 Hall Street. (Original roof circa 1981)
	Sewer G.O. Bonds	50,000	Replace Public Properties facility roof at 115 Hall Street.(Original roof circa 1981)
	Sewer G.O. Bonds	27,500	Slot drain repair in Vehicle Storage Building.
	Water G.O. Bonds	27,500	Slot drain repair in Vehicle Storage Building.
	General G.O. Bonds	12,000	LED lighting improvements.
	Sewer G.O. Bonds	6,500	LED lighting improvements.
	Water G.O. Bonds	6,500	LED lighting improvements.
		\$550,000	2018 Subtotal
2019	General G.O. Bonds	150,000	Roof coating and replacement Phase III of III.
	Water G.O. Bonds	75,000	Roof coating and replacement Phase III of III.
	Sewer G.O. Bonds	75,000	Roof coating and replacement Phase III of III.
	General G.O. Bonds	30,000	Crack seal and seal coat existing pavement. Pave gravel areas used for vehicle storage.
	General G.O. Bonds	30,000	Phase II Refurbish the drainage grates in Vehicle Storage Building.
	General G.O. Bonds	25,000	Rubber floor replacement phase I.
	General G.O. Bonds	20,000	Repaint walls and replace carpet in all principal areas of the facility.
	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	Crack seal and seal coat existing pavement. Pave gravel areas used for vehicle storage.
	Sewer G.O. Bonds	15,000	Crack seal and seal coat existing pavement. Pave gravel areas used for vehicle storage.

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES	#323-Combined Operations & Maintenance Facility (COMF) Improvements	
	Water G.O. Bonds	15,000	Phase II Refurbish floor drainage grates in Vehicle Storage Building.
	Sewer G.O. Bonds	15,000	Phase II Refurbish floor drainage grates in Vehicle Storage Building.
	Water G.O. Bonds	12,500	Rubber floor replacement phase I.
	Sewer G.O. Bonds	12,500	Rubber floor replacement phase I.
	Water G.O. Bonds	10,000	Repaint walls and replace carpet in all principal areas of the facility.
	Sewer G.O. Bonds	10,000	Repaint walls and replace carpet in all principal areas of the facility.
	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 circa 1992 when facility was first occupied.
		\$610,000	2019 Subtotal
2020	General G.O. Bonds	200,000	Replace underground fuel tanks.
	Water G.O. Bonds	75,000	Replace underground fuel tanks.
	Sewer G.O. Bonds	75,000	Replace underground fuel tanks.
	Sewer G.O. Bonds	20,000	Phased plan to replace one-third of the overhead doors. (20 of the 57)
	Water 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)
		\$430,000	2020 Subtotal
2021	General G.O. Bonds	200,000	Replace underground fuel tanks.
	Sewer G.O. Bonds	75,000	Replace underground fuel tanks.
	Water G.O. Bonds	75,000	Replace underground fuel tanks.
	General G.O. Bonds	40,000	Phased plan to replace one-third of the overhead doors. (17 of the 57)
	Water G.O. Bonds	20,000	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. (Circa 1992 original materials)
	Sewer G.O. Bonds	20,000	Phased plan to replace one-third of the overhead doors. (17 of the 57)
		\$450,000	2021 Subtotal
2022	General G.O. Bonds	50,000	Replace rubber tile in main hallway areas. (Circa 1992 original materials)

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES	#323-Combined Operations & Maintenance Facility (COMF) Improvements		
	General G.O. Bonds	30,000		HVAC and Energy Management System upgrades. Original 2007 work performed by Siemens Company. Maintain energy efficiency.
	Sewer G.O. Bonds	25,000		Replace rubber tile in main hallway areas. (Circa 1992 original materials)
	Water G.O. Bonds	25,000		Replace rubber tile in main hallway areas. (Circa 1992 original materials)
	Water G.O. Bonds	15,000		HVAC and Energy Management System upgrades. Original 2007 work performed by Siemens Company. Maintain energy efficiency.
	Sewer G.O. Bonds	15,000		HVAC and Energy Management System upgrades. Original 2007 work performed by Siemens Company. Maintain energy efficiency.
		\$160,000		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.
	Water G.O. Bonds	15,000		Crack seal and seal coat existing pavement.
	Sewer G.O. Bonds	15,000		Crack seal and seal coat existing pavement.
		\$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.
	Water G.O. Bonds	50,000		Refurbish HVAC system and controls.
		\$200,000		2025 Subtotal
	TOTAL	\$2,560,000		

**2018-2027
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"/> 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: 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	60,000	0	0	60,000
General	Capital Transfer	0	30,000	30,000	0	0	0	0	0	0	0	60,000
	Total	0	30,000	30,000	0	0	0	0	60,000	0	0	120,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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.
		\$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.
		\$30,000	2020 Subtotal
2025	General G.O. Bonds	60,000	Systematic Replacement of Thermal Imaging Cameras.
		\$60,000	2025 Subtotal
TOTAL		\$120,000	

**2018-2027
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: New L Safety M Facility Cond. H Productivity
 Replace L Mandates H Service Def. M Tax Base Exp. L City Master Pl.
 Rebuild M O + M Costs N/A Council Goals M Timeliness
 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	0	0	0	0	0	0	150,000	0	1,500,000	0	1,650,000
	Total	0	0	0	0	0	0	150,000	0	1,500,000	0	1,650,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2024	Water G.O. Bonds	150,000	Design of a new pump house and appurtenances. Wright Pierce Engineers assessment and recommendations.
		\$150,000	2024 Subtotal
2026	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.
		\$1,500,000	2026 Subtotal
	TOTAL	\$1,650,000	

**2018-2027
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	<input type="checkbox"/> New	<input type="checkbox" value="L"/> Safety	<input type="checkbox" value="L"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
SERVED:	<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="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: The purpose of this project is to establish a schedule of capital investments for the City's water tanks and related systems.

The City has 5 water tanks, as follows:
 Ed Young Tank on Penacook Street
 Primrose Tank in Penacook
 East Concord Tank off Portsmouth Street
 Snow Pond Tank off Snow Pond up behind the Mountain Green development
 Auburn Street Tank behind Concord Hospital

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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	100,000	0	0	0	50,000	0	75,000	40,000	150,000	4,055,000	4,470,000
	Total	100,000	0	0	0	50,000	0	75,000	40,000	150,000	4,055,000	4,470,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water G.O. Bonds	70,000	Auburn Street Tank and Snow Pond Road Tank: Installation of solar power improvements.
	Water G.O. Bonds	30,000	Primrose Tank. Cleaning, crack sealing and re-application of cementitious coating (as needed) and reconditioning/replacing altitude valve and appurtenant controls.
		\$100,000	2018 Subtotal
2022	Water G.O. Bonds	50,000	Ed Young Tank (a.k.a. West End Tank). Cleaning, crack sealing and re-application of cementitious coating (as needed) and reconditioning/replacing altitude valve and appurtenant controls.
		\$50,000	2022 Subtotal
2024	Water G.O. Bonds	75,000	East Concord Tank. Cleaning, crack sealing and re-application of cementitious coating (as needed) and reconditioning/replacing altitude valve and appurtenant controls.
		\$75,000	2024 Subtotal
2025	Water G.O. Bonds	40,000	Snow Pond Tank: Cleaning, crack sealing and re-application of cementitious coating (as needed) and reconditioning/replacing altitude valve and appurtenant controls.
		\$40,000	2025 Subtotal
2026	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.
	Water G.O. Bonds	50,000	Ed Young Tank: Cleaning, crack sealing and re-application of cementitious coating (as needed) and reconditioning/replacing altitude valve and appurtenant controls.
		\$150,000	2026 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-WATER	#347-Water Storage Tank Repairs		
2027	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 2020.
	Water G.O. Bonds		55,000	Primrose Tank: Cleaning, crack sealing and altitude valve replacement.
			\$4,055,000	2027 Subtotal
TOTAL			\$4,470,000	

**2018-2027
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 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: 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	175,000	0	65,000	0	0	0	0	240,000
General	Impact Fees Rec Dist 2	0	0	0	0	0	0	100,000	0	0	0	100,000
	Total	0	0	0	175,000	0	65,000	100,000	0	0	0	340,000

**2018-2027
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
2023	General G.O. Bonds	65,000	Basketball and tennis courts - renovation or reconstruction.
		\$65,000	2023 Subtotal
2024	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	2024 Subtotal
	TOTAL	\$340,000	

**2018-2027
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:	<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: 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	60,000	0	0	0	0	120,000	0	0	180,000
	Total	0	0	60,000	0	0	0	0	120,000	0	0	180,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #359-Merrill Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
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
	TOTAL	\$180,000	

**2018-2027
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"/> 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"/> Parks
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	125,000	0	0	0	0	0	125,000
	Total	0	0	0	0	125,000	0	0	0	0	0	125,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #360-Kimball Park

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	125,000	Playground equipment replacement.
		<u>\$125,000</u>	2022 Subtotal
	TOTAL	<u>\$125,000</u>	

**2018-2027
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 and "Red-Listed" 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

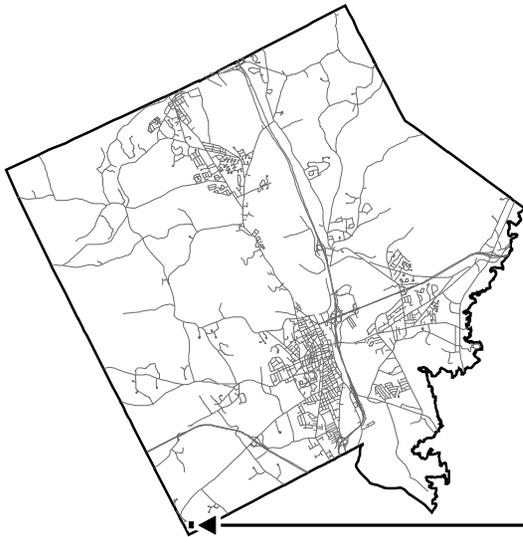
Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	180,000*	0	0	0	0	0	0	0	0	0	180,000
Other	State	720,000*	0	0	0	0	0	0	0	0	0	720,000
	Total	900,000	0	0	0	0	0	0	0	0	0	900,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Other State	720,000	Design and construction of bridge replacement. State share of project is 80%.
	General G.O. Bonds	180,000	Design and construction of bridge replacement. City share of project is 20%.
		\$900,000	2018 Subtotal
	TOTAL	\$900,000	



Disclaimer of Mapping Accuracy
Engineering Services Division
City of Concord, New Hampshire

GEOGRAPHIC INFORMATION SYSTEM

This map conforms to the United States National Map Accuracy Standards. It was prepared for use by the City of Concord and uses a database digitized at a scale of 1:1200. Enlargements may produce measurable discrepancies. The City makes no representations or guarantees of its accuracy or its suitability for use other than by the City. Users other than the City, do so at their own risk.

Not to Scale



**FY 2018
CIP PROJECT #361
HOOKSETT TURNPIKE
BRIDGE REPLACEMENT**



**2018-2027
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	<input type="checkbox"/> New	<input type="checkbox" value="L"/> 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="N/A"/> 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="H"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" 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 dispatch consoles 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	420,000	0	0	0	0	0	0	0	0	0	420,000
	Total	420,000	0	0	0	0	0	0	0	0	0	420,000

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	400,000	Console and Dispatch Furniture upgrades. 3 position console with specified channels, together with related equipment and furniture replacement. This project is to be paired with the funding appropriated for this project in FY2017.
	General G.O. Bonds	20,000	Replace Drug Enforcement Unit mobile radios. Current radios are very old and are a discontinued product. Spare parts are no longer available. This is a safety issue that these new radios will address.
		\$420,000	2018 Subtotal
TOTAL		\$420,000	

**2018-2027
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:	<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"/> Long-Range Planning
	<input type="checkbox"/> 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 2016. This batch will need to be replaced on or about December 2021.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	75,000	0	0	0	0	80,000	0	155,000
	Total	0	0	0	75,000	0	0	0	0	80,000	0	155,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2021	General G.O. Bonds	75,000	Replace vests purchased in FY2016.
		<u>\$75,000</u>	2021 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	POLICE - OPERATIONS	#370-Police Department Ballistic Vest Replacement Program	
2026	General G.O. Bonds	80,000	Replace vests purchased in FY2021
		<u>\$80,000</u>	2026 Subtotal
	TOTAL	<u>\$155,000</u>	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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="checkbox" value="L"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="H"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox"/> 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"/> 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	250,000	100,000	0	0	0	0	1,200,000	0	0	0	1,550,000
	Total	250,000	100,000	0	0	0	0	1,200,000	0	0	0	1,550,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water G.O. Bonds	250,000	Pump Station # 5 Broad Cove. Rebuild motor control centers, pump refurbishment, and chemical equipment upgrades
		\$250,000	2018 Subtotal
2019	Water G.O. Bonds	100,000	Pump Station # 6 Mountain Road. Structural, architectural, and site improvements.
		\$100,000	2019 Subtotal
2024	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	2024 Subtotal
	TOTAL	\$1,550,000	

**2018-2027
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 SERVED: New M Safety M Facility Cond. N/A Productivity
 Replace N/A Mandates H Service Def. N/A Tax Base Exp. N/A City Master Pl.
 Rebuild M O + M Costs L Council Goals M Timeliness
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: This project provides for the systematic replacement of the Fire Department's 3 motorized rescue watercraft.

SERVICE IMPACT: Older water craft are less reliable and more expensive to maintain.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	0	0	0	0	0	0	30,000	0	0	30,000
General	G.O. Bonds	0	0	0	0	30,000	0	0	0	0	0	30,000
	Total	0	0	0	0	30,000	0	0	30,000	0	0	60,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #375-Fire Department Boats

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General G.O. Bonds	30,000	Systematic replacement of fire department boats.
		\$30,000	2022 Subtotal
2025	General Capital Transfer	30,000	Replace Boat 7. (2010)
		\$30,000	2025 Subtotal
	TOTAL	\$60,000	

**2018-2027
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:	<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 provides funding for the 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	20,000	30,000	0	30,000	0	30,000	0	30,000	0	0	140,000
	Total	20,000	30,000	0	30,000	0	30,000	0	30,000	0	0	140,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General Capital Transfer	20,000	Systematic replacement of fire hose and equipment.
		<u>\$20,000</u>	2018 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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
2025	General Capital Transfer	30,000	Systematic replacement of fire hose and equipment.
		\$30,000	2025 Subtotal
	TOTAL	\$140,000	

**2018-2027
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:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> H Safety	<input type="checkbox"/> N/A Facility Cond.	<input type="checkbox"/> H Productivity	
	<input 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"/> L 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	Targeted Neighborhoods
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

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: Pedestrian safety improvements will reduce speeds on neighborhood streets, thereby resulting in improved public safety and less demand upon the Concord Police Department for traffic enforcement.

IMPACT IF NOT FUNDED: Continued community concern about neighborhood traffic speeds and pedestrian safety. Heightened 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	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	2022 Subtotal
TOTAL		\$65,000	

**2018-2027
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	<u>M</u>	Safety	<u>N/A</u>	Facility Cond.	<u>N/A</u>	Productivity	
SERVED:	<input type="checkbox"/> Replace	<u>H</u>	Mandates	<u>H</u>	Service Def.	<u>N/A</u>	Tax Base Exp.	<u>N/A</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>M</u>	O + M Costs	<u>N/A</u>	Council Goals	<u>H</u>	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 serve as a placeholder concerning 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	8,120,000	0	8,120,000
	Total	0	0	0	0	0	0	0	0	8,120,000	0	8,120,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2026	General G.O. Bonds	8,120,000	Construction of Old Suncook Road Landfill cap. Cost estimate is preliminary pending final design.
		\$8,120,000	2026 Subtotal
	TOTAL	\$8,120,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #383-New Airport Terminal Building

I. PROJECT TYPE: Airport

II. LOCATION: Airport Road

III. PROJECT OBJECTIVES AND BACKGROUND

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

DESCRIPTION: This project entails the construction of a new Terminal building to serve Concord Airport as recommended by the 2006 Airport Master Plan.

The current Airport terminal building was constructed in 1938 and later renovated in 1961. Due to its age, the terminal is plagued with a variety of significant building code violations, structural deficiencies, and inadequate security measures. The age and configuration of the terminal also make it extremely difficult to make the building compliant with the 1990 Americans with Disabilities Act (ADA) without major renovations at significant cost. These issues render much of the terminal building unusable.

Because of the growing importance of the airport as well as the obsolete condition of the current terminal, the Master Plan strongly recommended the construction of a new 9,000 SF terminal building with expanded parking facilities in the general vicinity of the existing terminal building. The estimated cost of the project is \$2,732,800 (2006 dollars). This cost was comparable to those estimated to renovate the existing building, thereby making new construction very attractive.

An economic impact analysis completed by the City as part of the 2006 Airport Master Plan revealed that Concord Airport contributes \$7.2 million dollars to the local economy in the form of direct, indirect, and induced impacts. The same study also estimated that the Airport supports nearly 1,700 jobs throughout the region. Construction of a new terminal building will help expand use of the Airport, and therefore further bolster the local and regional economy.

SERVICE IMPACT: To prevent further deterioration of facility, operation and safety concerns, continued deficiencies based on projected demand and capacity.

IMPACT IF NOT FUNDED: Inability to grow air traffic at the airport thereby resulting in stagnant revenues and persisting code compliance / life-safety concerns with the current facility.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 1997

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

20

Expected Bond Term (in Years)

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #383-New Airport Terminal Building

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Airport	G.O. Bonds	0	0	0	0	0	0	0	0	0	175,000	175,000
Other	Federal	0	0	0	0	0	0	0	0	0	3,150,000	3,150,000
Other	State	0	0	0	0	0	0	0	0	0	175,000	175,000
	Total	0	0	0	0	0	0	0	0	0	3,500,000	3,500,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2027	Other Federal	3,150,000	Design and construct new Airport Terminal to improve efficiency and code compliance. Preliminary estimate only. FAA's 90% of total cost of \$3,500,000.
	Other State	175,000	State's 5 % of total cost of \$3,500,000.
	Airport G.O. Bonds	175,000	City's 5 % of total cost of \$3,500,000.
		\$3,500,000	2027 Subtotal
	TOTAL	\$3,500,000	

**2018-2027
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			

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Parking	G.O. Bonds	0	50,000	45,000	45,000	0	0	0	0	0	0	140,000
	Total	0	50,000	45,000	45,000	0	0	0	0	0	0	140,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Parking G.O. Bonds	50,000	Purchase 4X4 pick-up truck with plow & sander for Maintenance Staff. Subject to approval of Strategic Parking Plan.
		\$50,000	2019 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	POLICE - OPERATIONS	#403-Parking Division Vehicle Replacement Program	
2020	Parking G.O. Bonds	45,000	Replace meter tech vehicle.
		\$45,000	2020 Subtotal
2021	Parking G.O. Bonds	45,000	Replace Parking Enforcement Mobile Unit (Jeep).
		\$45,000	2021 Subtotal
	TOTAL	\$140,000	

**2018-2027
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	<u>N/A</u> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
	<input checked="" type="checkbox"/> Replace	<u>L</u> Mandates	<input type="checkbox"/> Service Def.	<input type="checkbox"/> Tax Base Exp.	<u>N/A</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>N/A</u> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Sewer	Capital Transfer	0	18,000	0	0	0	0	0	0	0	20,000	38,000
Sewer	G.O. Bonds	0	0	0	0	80,000	0	0	0	0	0	80,000
	Total	0	18,000	0	0	80,000	0	0	0	0	20,000	118,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Sewer Capital Transfer	18,000	Replace lateral service line inspection camera, hardware and software.
		\$18,000	2019 Subtotal
2022	Sewer G.O. Bonds	80,000	Replace mainline and service line inspection camera, hardware and software.
		\$80,000	2022 Subtotal
2027	Sewer Capital Transfer	20,000	Replace lateral service line inspection camera, hardware and software.
		\$20,000	2027 Subtotal
	TOTAL	\$118,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #432-North State Street Parking Garage (Formerly Firehouse Block)

I. PROJECT TYPE: Parking

II. LOCATION: 19 North State Street

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 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="H"/> Timeliness	Parking
	<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 repairs and refurbishment of the North State Street Parking Garage (formerly known as 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, thereby potentially having a negative effect on nearby businesses and residences. 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Parking	G.O. Bonds	0	50,000	65,000	0	0	2,700,000	0	0	0	0	2,815,000
Parking	Capital Transfer	0	21,800	0	15,675	0	0	0	18,150	0	19,600	75,225
	Total	0	71,800	65,000	15,675	0	2,700,000	0	18,150	0	19,600	2,890,225

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #432-North State Street Parking Garage (Formerly Firehouse Block)

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Parking G.O. Bonds	50,000	New surveillance system.
	Parking Capital Transfer	21,800	Clean drainage system (\$5,800), repaint pavement markings (\$8,500), signage for permit system (\$7,500).
		\$71,800	2019 Subtotal
2020	Parking G.O. Bonds	65,000	New exterior and interior signage.
		\$65,000	2020 Subtotal
2021	Parking Capital Transfer	15,675	Clean drainage system (\$6,400), repaint pavement markings (\$9,275).
		\$15,675	2021 Subtotal
2023	Parking G.O. Bonds	2,700,000	Comprehensive structural repairs and renovations, including concrete repairs, waterproofing, as well as repair / replacement of electrical systems, drainage systems, lighting, and fire standpipes. Also includes design, construction administration, and contingency.
		\$2,700,000	2023 Subtotal
2025	Parking Capital Transfer	18,150	Clean drainage system (\$7,750), repaint pavement markings (\$10,400).
		\$18,150	2025 Subtotal
2027	Parking Capital Transfer	19,600	Clean drainage system (\$8,500), repaint pavement markings (\$11,100).
		\$19,600	2027 Subtotal
TOTAL		\$2,890,225	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #433-School Street Parking Garage (Formerly Durgin Block)

I. PROJECT TYPE: Parking

II. LOCATION: 17 School Street

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 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="H"/> Timeliness	Parking
	<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 repairs and refurbishment of the School Street Parking Garage (formerly know as 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, thereby potentially having a negative effect on nearby businesses and residences. 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Parking	Capital Transfer	0	0	0	23,500	0	25,900	0	28,700	0	31,400	109,500
Parking	G.O. Bonds	0	0	60,000	0	0	0	220,000	0	0	0	280,000
	Total	0	0	60,000	23,500	0	25,900	220,000	28,700	0	31,400	389,500

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #433-School Street Parking Garage (Formerly Durgin Block)

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	Parking G.O. Bonds	60,000	Signage and gates for permit system, including design services and contingency.
		\$60,000	2020 Subtotal
2021	Parking Capital Transfer	23,500	Clean drainage system (\$13,500) and repaint pavement markings (\$10,000).
		\$23,500	2021 Subtotal
2023	Parking Capital Transfer	25,900	Clean drainage system (\$14,900), repaint pavement markings (\$11,000).
		\$25,900	2023 Subtotal
2024	Parking G.O. Bonds	220,000	Waterproofing and membrane repair / replacement (\$148,300), touchup paint steel frame (\$25,000), design services and contingency (\$43,325).
		\$220,000	2024 Subtotal
2025	Parking Capital Transfer	28,700	Clean drainage system (\$16,500), repaint pavement markings (\$12,200).
		\$28,700	2025 Subtotal
2027	Parking Capital Transfer	31,400	Clean drainage system (\$18,000), repaint pavement markings (\$13,400).
		\$31,400	2027 Subtotal
	TOTAL	\$389,500	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: GS-SOLID WASTE #447-Landfill Soil Vapor Extraction Systems

I. PROJECT TYPE: Solid Waste Management

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

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED: New H Safety M Facility Cond. L Productivity
 Replace L Mandates H Service Def. N/A Tax Base Exp. H City Master Pl.
 Rebuild L O + M Costs N/A Council Goals H Timeliness Other
 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Solid Waste	Capital Transfer	10,000	10,000	0	0	0	0	0	0	10,000	10,000	40,000
Solid Waste	G.O. Bonds	0	0	0	125,000	45,000	0	0	0	0	0	170,000
	Total	10,000	10,000	0	125,000	45,000	0	0	0	10,000	10,000	210,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: GS-SOLID WASTE #447-Landfill Soil Vapor Extraction Systems

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
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 G.O. Bonds	45,000	Old Suncook Landfill blower system replacement.
		\$45,000	2022 Subtotal
2026	Solid Waste Capital Transfer	10,000	Rehabilitation of gas collection system and wells at Old Turnpike Landfill.
		\$10,000	2026 Subtotal
2027	Solid Waste Capital Transfer	10,000	Rehabilitation of gas collection system and wells at Old Suncook Landfill.
		\$10,000	2027 Subtotal
	TOTAL	\$210,000	

**2018-2027
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:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> 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="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="N/A"/> O + M Costs	<input type="checkbox" value="L"/> Council Goals	<input type="checkbox" value="M"/> Timeliness	Water
	<input type="checkbox"/> 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 system.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	Capital Outlay	63,000	63,000	63,000	65,000	68,000	72,000	77,000	85,000	89,000	95,000	740,000
	Total	63,000	63,000	63,000	65,000	68,000	72,000	77,000	85,000	89,000	95,000	740,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Water Capital Outlay	33,000	Hydrant replacement.
	Water Capital Outlay	30,000	Valve replacement.
		<u>\$63,000</u>	2018 Subtotal

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

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.
		\$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

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#448-Hydrant and Valve Replacement Program		
2026	Water Capital Outlay	47,000		Hydrant replacement.
	Water Capital Outlay	42,000		Valve replacement.
		\$89,000		2026 Subtotal
2027	Water Capital Outlay	50,000		Hydrant replacement.
	Water Capital Outlay	45,000		Valve replacement.
		\$95,000		2027 Subtotal
	TOTAL	\$740,000		

**2018-2027
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: The purpose of this project is to provide funding for leak detection equipment known as "data loggers" for the City's potable water system. 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 project will help the City maintain the water system so as it operates as efficiently as possible by reducing water loss and waste.

IMPACT IF NOT FUNDED: If not funded, water leaks in compromised pipes will remain undetected, resulting in a less efficient water system and waste associated with lost water. Also unrepaired leaks present opportunity for potential contamination of the potable water system.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: GS-WATER #451-Leak Detection

VII. PROJECT FUND DETAIL

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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #460-Downtown Complete Streets Improvement Project

I. PROJECT TYPE: Sidewalks and Streetscapes

II. LOCATION: Downtown Concord (between Centre and Storrs/Perley Streets)

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED:	<input type="checkbox"/> New	<input type="checkbox" value="L"/> Safety	<input type="checkbox" value="L"/> 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="M"/> 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="L"/> Timeliness	Economic Development
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: In FY2006, the City and Concord 20/20 Program provided Main Street Concord, Inc., now known as Intown Concord, with \$40,000 to develop a streetscape improvement plan for the core of Downtown. This plan was published in October 2006 and presented to Council in January 2007. The plan is focused on implementing improvements which will improve safety for motorists and pedestrians, as well as beautify downtown. The plan identifies moderate scale improvements which do not require significant utility relocations or a major overhaul of downtown traffic flow.

In late FY2010, Concord 20/20 and Main Street Concord embarked on the "Rethinking Main Street Project". The purpose of that initiative is to update the 2006 Streetscape Plan with a focus on the downtown central business district between Centre Street and Perley Street. It is anticipated that alternative concepts for streetscape and traffic improvements will be developed by that undertaking. In late 2010, City Council accepted the planning report and authorized the City Manager to apply for grants to fund portions of the project.

In June 2012, City Council was notified of a \$4.71 million TIGER grant award for the project.

Construction began in the spring of 2015. Phase I (Center to Pleasant) was completed in November 2015. Phase II commenced on March 28, 2016 and was completed in November 2017.

SERVICE IMPACT: As a complete street, the project will improve walkability and aesthetic appearance of downtown. Sidewalks which are not ADA compliant will be improved and brought into compliance. Minor impacts for downtown snow removal might occur.

IMPACT IF NOT FUNDED: Property owners in downtown will not be encouraged to invest in their properties. Major pedestrian safety issues will persist. Existing ADA sidewalk deficiencies will continue to persist.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 06 PREVIOUS AMOUNT: 20,000

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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #460-Downtown Complete Streets Improvement Project

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	100,000	0	0	0	0	0	0	0	100,000
	Total	0	0	100,000	0	0	0	0	0	0	0	100,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	100,000	Grind and pave section of North Main Street not included within Downtown Complete Streets Improvement Project (approximately Center Street to Storrs Street). Subject to CIP 34 (Storrs Street / N. Main Signalization) and CIP 18 (Storrs Street North Extension).
		\$100,000	2020 Subtotal
	TOTAL	\$100,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

I. PROJECT TYPE: Sewer Treatment

II. LOCATION: 7 Penacook Street, Penacook

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 purpose of this project is to provide funding for maintenance and repair of the Penacook Waste Water Treatment Plant.

The plant has been in operation since 1974. Major upgrades were 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Sewer	Capital Transfer	0	25,000	0	15,000	20,000	0	0	0	0	0	60,000
Sewer	G.O. Bonds	560,000	200,000	160,000	55,000	1,222,500	600,000	180,000	775,000	250,000	2,100,000	6,102,500
	Total	560,000	225,000	160,000	70,000	1,242,500	600,000	180,000	775,000	250,000	2,100,000	6,162,500

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Sewer G.O. Bonds	560,000	Equipment/process improvements - Upgrade pump stations 1&2 and electrical distribution system.
		<u>\$560,000</u>	2018 Subtotal
2019	Sewer G.O. Bonds	200,000	Equipment/process improvements - Upgrade pump stations 1&2 and electrical distribution system.
	Sewer Capital Transfer	25,000	Equipment/process improvements - Sequencing Batch Reactor (SBR) motive pump rebuild.
	<u>\$225,000</u>	2019 Subtotal	
2020	Sewer G.O. Bonds	85,000	Building system improvements - Fire alarm upgrades.
	Sewer G.O. Bonds	75,000	Site/Security improvements - Security improvements.
	<u>\$160,000</u>	2020 Subtotal	
2021	Sewer G.O. Bonds	30,000	Site/Security improvements - Fence Repairs
	Sewer G.O. Bonds	25,000	Site/Security improvements - Landscaping improvements.
	Sewer Capital Transfer	15,000	Equipment/process improvements - Replacement of Sequencing Batch Reactor (SBR) check valves.
	<u>\$70,000</u>	2021 Subtotal	
2022	Sewer G.O. Bonds	525,000	Equipment/process improvements - Influent screw pump replacement.
	Sewer G.O. Bonds	250,000	Building/structural improvements - Roof replacement.
	Sewer G.O. Bonds	110,000	Equipment/process improvements - Plant water pump system replacement.
	Sewer G.O. Bonds	100,000	Equipment/process improvements - Algae control system upgrades.
	Sewer G.O. Bonds	100,000	Equipment/process improvements - Supervisory Control And Data Acquisition (SCADA) system processor upgrades.
	Sewer G.O. Bonds	70,000	Building/systems improvements- Space heating equipment upgrades.
	Sewer G.O. Bonds	35,000	Building/systems improvements - Head works ventilation upgrade.
	Sewer G.O. Bonds	32,500	Building/systems improvements - Improvements to pump stations 1 & 2, as well as HVAC improvements.
	Sewer Capital Transfer	20,000	Building systems improvements - Plumbing upgrades.

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-SEWER	#466-Penacook Waste Water Treatment Plant Improvements		
			\$1,242,500	2022 Subtotal
2023	Sewer G.O. Bonds		500,000	Building/structural improvements - Allowance for concrete/structural repairs.
	Sewer G.O. Bonds		100,000	Equipment/process improvements - Facility Needs Assessment study.
			\$600,000	2023 Subtotal
2024	Sewer G.O. Bonds		105,000	Equipment/process improvements - Design services for grit removal system and storm flow storage control improvements.
	Sewer G.O. Bonds		50,000	Building/structural improvements - Renovation of interior finishes (paint, carpet, ceiling tiles, etc.)
	Sewer G.O. Bonds		25,000	Equipment/process improvements- Storm surge control upgrades.
			\$180,000	2024 Subtotal
2025	Sewer G.O. Bonds		650,000	Equipment/process improvements - Grit removal system installation.
	Sewer G.O. Bonds		125,000	Equipment/process improvements - Storm surge control system installation.
			\$775,000	2025 Subtotal
2026	Sewer G.O. Bonds		150,000	Site/Security improvements - Fence replacement.
	Sewer G.O. Bonds		100,000	Equipment/process improvements - Design services for refurbishment of the Sequencing Batch Reactor (SBR).
			\$250,000	2026 Subtotal
2027	Sewer G.O. Bonds		2,000,000	Equipment/process improvements - Sequencing Batch Reactor (SBR) refurbishment.
	Sewer G.O. Bonds		100,000	Equipment/process improvements - Supervisory Control And Data Acquisition (SCADA) system upgrades.
			\$2,100,000	2027 Subtotal
	TOTAL		\$6,162,500	

**2018-2027
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: 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 Airport

DESCRIPTION: The purpose of this project is to reconstruct Taxiway A in order to support continued operation of Runway 17/35, as well as construct a Itinerant Ramp to accommodate larger aircraft as recommended in the 2006 Airport Master Plan.

In 2004, Runway 12/30 was reconstructed and reduced in width from 150 feet to 75 feet to comply with current FAA regulations. As a result, large corporate aircrafts (such as DC 9's and Boeing 727's) can no longer taxi on the narrower runway.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	State	73,000*	58,500	0	0	0	0	0	0	8,334	55,556	195,390
Airport	Capital Transfer	0	58,500	0	0	0	0	0	0	8,334	8,556	75,390
Airport	G.O. Bonds	73,000*	0	0	0	0	0	0	0	0	0	73,000
Other	Federal	1,314,000*	1,053,000	0	0	0	0	0	0	150,000	1,000,000	3,517,000
	Total	1,460,000	1,170,000	0	0	0	0	0	0	166,668	1,064,112	3,860,780

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Other Federal	1,314,000	Construct the rehabilitation of Taxiway A, Phase I.
	Airport G.O. Bonds	73,000	City share.
	Other State	73,000	State share.
		\$1,460,000	2018 Subtotal
2019	Other Federal	1,053,000	Construct the rehabilitation of Taxiway A, Phase II.
	Airport Capital Transfer	58,500	City share.
	Other State	58,500	State share.
		\$1,170,000	2019 Subtotal
2026	Other Federal	150,000	Design the expansion of the Itinerant Ramp to the north to accommodate larger aircraft. Federal share.
	Airport Capital Transfer	8,334	City share.
	Other State	8,334	State share.
		\$166,668	2026 Subtotal
2027	Other Federal	1,000,000	Construct the expansion of the Itinerant Ramp to the north to accommodate larger aircraft. Federal share.
	Other State	55,556	State share.
	Airport Capital Transfer	8,556	City share.
		\$1,064,112	2027 Subtotal
	TOTAL	\$3,860,780	

**2018-2027
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: New Safety Facility Cond. Productivity
 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: 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	State	0	0	0	0	0	0	0	0	0	27,778	27,778
Airport	Capital Transfer	0	0	0	0	0	0	0	0	0	27,778	27,778
Other	Federal	0	0	0	0	0	0	0	0	0	500,000	500,000
	Total	0	0	0	0	0	0	0	0	0	555,556	555,556

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2027	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	2027 Subtotal
TOTAL		\$555,556	

**2018-2027
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 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 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	10,000	0	0	30,000	60,000	0	0	0	0	100,000
	Total	0	10,000	0	0	30,000	60,000	0	0	0	0	100,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: LIBRARY #477-Library Equipment Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General Capital Transfer	10,000	Microfilm Reader/Printer Replacement (1 workstation), with scanning technology.
		\$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	\$100,000	

**2018-2027
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"/> M	Safety	<input type="checkbox"/> N/A	Facility Cond.	<input type="checkbox"/> L	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"/> L City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> L	O + M Costs	<input type="checkbox"/> L	Council Goals	<input type="checkbox"/> M	Timeliness	Long-Range Planning
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis							

DESCRIPTION: The City's Water Master Plan recommended that the City establish a comprehensive asset management program.

An Asset Management Program, within the context of the water system, entails the combination of management, financial, economic, engineering, and other practices as applied to the water system's physical assets with the objective of providing the required level of service in the most cost-effective manner. Asset Management includes the management of the entire lifecycle of the infrastructure assets, including design, construction, commissioning, operating, maintaining, repairing, modifying, replacing and decommissioning/disposal of infrastructure at the end of its useful life.

This effort shall include an analysis by outside experts to help a city steering committee define the program scope and resource requirements. This effort shall also include a "gap analysis", which 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Water	G.O. Bonds	0	90,000	0	0	0	0	0	90,000	0	0	180,000
	Total	0	90,000	0	0	0	0	0	90,000	0	0	180,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Water G.O. Bonds	90,000	Implementation of an asset management strategy. Acquisition of equipment, software, etc. as needed.
		<u>\$90,000</u>	2019 Subtotal
2025	Water G.O. Bonds	90,000	Development of built infrastructure asset data.
		<u>\$90,000</u>	2025 Subtotal
	TOTAL	<u>\$180,000</u>	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #484-Police Station Improvements

I. PROJECT TYPE: Public Safety

II. LOCATION: Police Station, Green Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED: New L Safety M Facility Cond. L Productivity
 Replace L Mandates M Service Def. N/A Tax Base Exp. L City Master Pl.
 Rebuild H 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 ongoing, routine maintenance for the Police Station. Typical projects include window replacement, roof rehabilitation, paint and carpet refurbishment, lighting improvements, HVAC upgrades, and other similar projects.

SERVICE IMPACT: Improve usability, maintainability, and energy efficiency of the Police Department.

IMPACT IF NOT FUNDED: Further deterioration of building systems may result in energy inefficiency, increased maintenance and operating costs, as well as decreased morale for employees working in the building.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	20,000	180,000	0	0	0	0	0	0	0	0	200,000
	Total	20,000	180,000	0	0	0	0	0	0	0	0	200,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #484-Police Station Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	20,000	Paint and flooring in the Dispatch Center.
		\$20,000	2018 Subtotal
2019	General G.O. Bonds	180,000	Renovate five bathrooms at Police Headquarters. Includes interior demolition, as well as new flooring, walls, ceilings and plumbing fixtures. Replace flooring in the Watch Commander's office, reception area and hallway. Repair and paint walls.
		\$180,000	2019 Subtotal
	TOTAL	\$200,000	

**2018-2027
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	<input type="checkbox"/> New	<u>N/A</u> Safety	<u>N/A</u> Facility Cond.	<u>L</u> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<u>N/A</u> Mandates	<u>H</u> Service Def.	<u>N/A</u> Tax Base Exp.	<u>N/A</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>L</u> O + M Costs	<u>N/A</u> Council Goals	<u>L</u> 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 to view 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	30,000	35,000	35,000	35,000	35,000	35,000	35,000	0	0	240,000
	Total	0	30,000	35,000	35,000	35,000	35,000	35,000	35,000	0	0	240,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #490-Police Department Records Management Microfilm Conversion

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	30,000	Scan microfilms to digital format. Phase I of 7.
		\$30,000	2019 Subtotal
2020	General G.O. Bonds	35,000	Scan microfilms to digital format. Phase 2 of 7.
		\$35,000	2020 Subtotal
2021	General G.O. Bonds	35,000	Scan microfilms to digital format. Phase 3 of 7.
		\$35,000	2021 Subtotal
2022	General G.O. Bonds	35,000	Scan microfilms to digital format. Phase 4 of 7.
		\$35,000	2022 Subtotal
2023	General G.O. Bonds	35,000	Scan microfilms to digital format. Phase 5 of 7.
		\$35,000	2023 Subtotal
2024	General G.O. Bonds	35,000	Scan microfilms to digital format. Phase 6 of 7.
		\$35,000	2024 Subtotal
2025	General G.O. Bonds	35,000	Scan microfilms to digital format. Phase 7 of 7.
		\$35,000	2025 Subtotal
TOTAL		\$240,000	

**2018-2027
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	<input type="checkbox"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Airport	Capital Transfer	0	0	0	11,400	11,400	0	0	0	0	0	22,800
Other	State	0	0	0	11,400	11,400	0	0	0	0	0	22,800
Other	Federal	0	0	0	205,200	205,200	0	0	0	0	0	410,400
	Total	0	0	0	228,000	228,000	0	0	0	0	0	456,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #492-Runway Protection Zone Obstruction Removal

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2021	Other Federal	205,200	Design Aviation Easement and obstruction removal (RPZ ad Greeley Street). Federal share.
	Other State	11,400	Design Aviation Easement and obstruction removal (RPZ ad Greeley Street). State share.
	Airport Capital Transfer	11,400	Design Aviation Easement and obstruction removal (RPZ ad Greeley Street). City share
		\$228,000	2021 Subtotal
2022	Other Federal	205,200	Airport obstruction removal (RPZ ad Greeley Street). Federal share
	Airport Capital Transfer	11,400	Airport obstruction removal (RPZ ad Greeley Street). City share
	Other State	11,400	Airport obstruction removal (RPZ ad Greeley Street). State share
		\$228,000	2022 Subtotal
	TOTAL	\$456,000	

**2018-2027
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	<input type="checkbox"/> New	<input type="checkbox" value="M"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
SERVED:	<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	Other
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Replace the existing substandard and "Red-Listed" 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

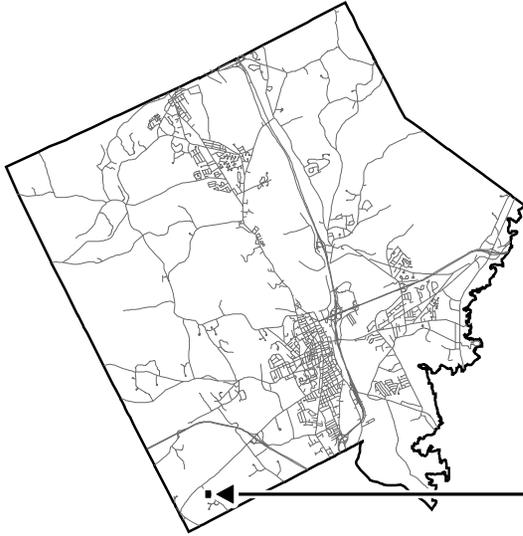
Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	180,000*	0	0	0	0	0	0	0	0	0	180,000
Other	State	720,000*	0	0	0	0	0	0	0	0	0	720,000
	Total	900,000	0	0	0	0	0	0	0	0	0	900,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #498-Birchdale Road Bridge Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Other State	720,000	Design and construction of bridge replacement. State share of project is 80%.
	General G.O. Bonds	180,000	City share of project is 20%.
		\$900,000	2018 Subtotal
	TOTAL	\$900,000	



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Engineering Services Division
City of Concord, New Hampshire

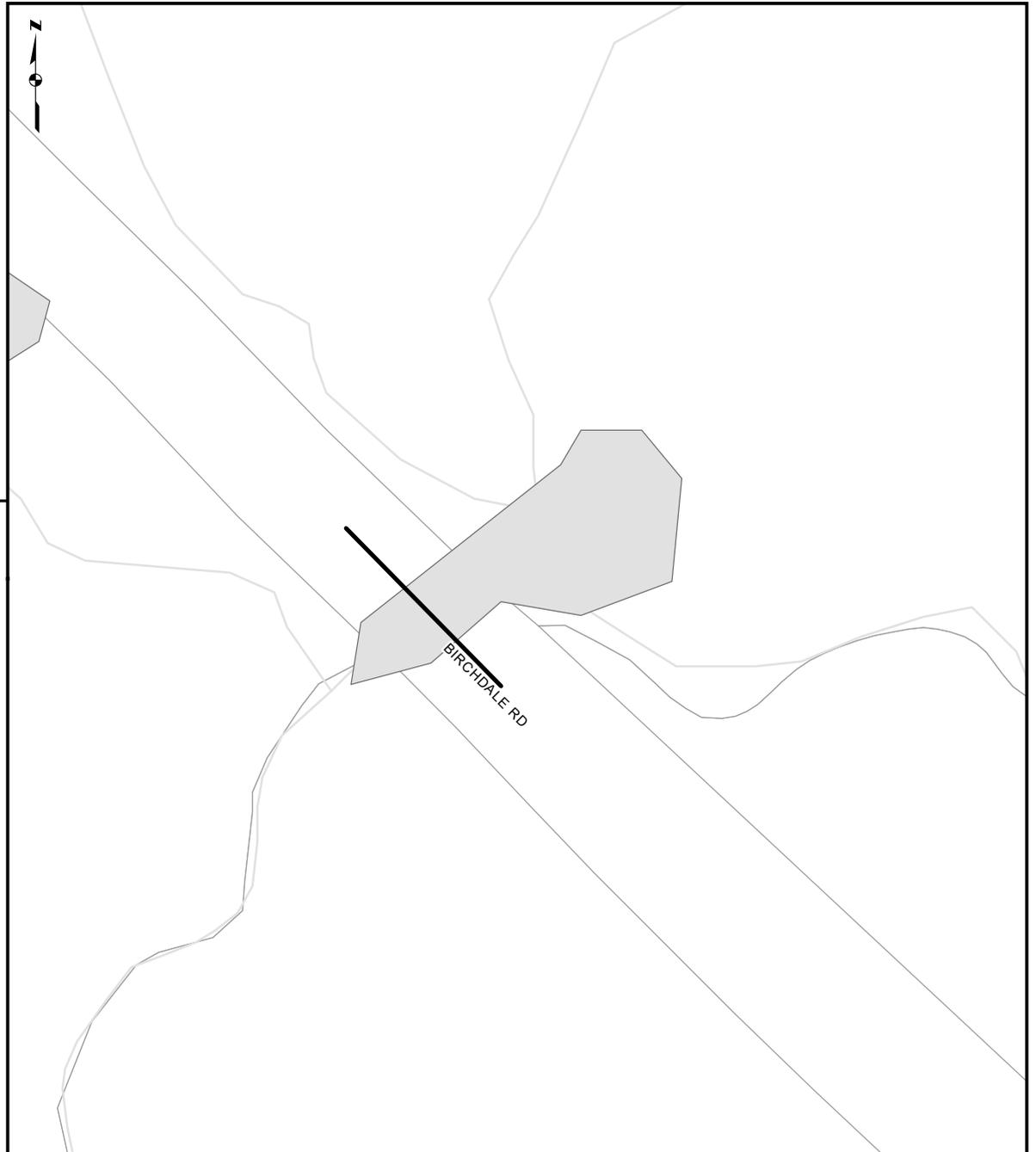
GEOGRAPHIC INFORMATION SYSTEM

This map conforms to the United States National Map Accuracy Standards. It was prepared for use by the City of Concord and uses a database digitized at a scale of 1:1200. Enlargements may produce measurable discrepancies. The City makes no representations or guarantees of its accuracy or its suitability for use other than by the City. Users other than the City, do so at their own risk.

Not to Scale



**FY 2018
CIP PROJECT #498
BIRCHDALE ROAD
BRIDGE REPLACEMENT**



**2018-2027
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:	<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: The purpose of this project is to extent Whitney Road southerly from its current terminus near the Penacook Waste to Energy Plant to Sewalls Falls Road roughly following the existing municipal water easement. The new roadway would also feature natural gas and municipal sanitary sewer. Water already exists within the anticipated roadway's right-of-way. The purpose of the project is to improve the local roadway network and to open up property for potential economic development opportunities.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	3,000,000	0	0	3,000,000
Sewer	G.O. Bonds	0	0	0	0	0	0	0	525,000	0	0	525,000
	Total	0	0	0	0	0	0	0	3,525,000	0	0	3,525,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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.
		\$3,525,000	2025 Subtotal
TOTAL		\$3,525,000	

**2018-2027
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 Mandates O + M Costs

Facility Cond. Service Def. Council Goals

Productivity Tax Base Exp. Timeliness

City Master Pl. Long-Range Planning

DESCRIPTION: The Historic Resources Section of the Master Plan 2030 recommends that additional historical surveys for West Concord and East Concord Villages, as well as a citywide survey of historic and pre-historic archeological resources. The "Extant Historic Carriage Houses & Urban Barns within Concord's West End Neighborhood" study was completed by a consultant and accepted by the Heritage Commission in 2014. Some of the recommendations from the last grant included: to conduct a more in-depth survey of the properties in the City's West End, as well as to inventory and study historic structures in other neighborhoods.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	Federal	0	35,000	0	0	0	0	0	0	0	0	35,000
	Total	0	35,000	0	0	0	0	0	0	0	0	35,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #506-Historical Surveys

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Other Federal	35,000	Historical / architectural surveys of City Villages and Neighborhoods, including historic and prehistoric archeological resources as funding is available.
		\$35,000	2019 Subtotal
TOTAL		\$35,000	

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: GS-HIGHWAY / UTILITIES #512-Emergency Vehicle Repairs

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
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
2025	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2025 Subtotal
2026	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2026 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-HIGHWAY / UTILITIES	#512-Emergency Vehicle Repairs	
2027	General Capital Outlay	10,000	Miscellaneous emergency repairs to vehicles / equipment across the organization as required.
		\$10,000	2027 Subtotal
	TOTAL	\$100,000	

**2018-2027
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:	<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"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: The purpose of this capital improvement project is to provide for winter recreational activities at the Beaver Meadow Golf Course site in order to expand year round use of this recreational asset. Specifically, the project shall provide funding for acquisition of equipment and infrastructure improvements to support cross country skiing, skating and sledding and other 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	53,000	0	0	0	0	0	0	0	53,000
General	Impact Fees Rec Dist 1	0	0	0	0	0	0	0	0	0	25,000	25,000
	Total	0	0	53,000	0	0	0	0	0	0	25,000	78,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #515-Golf Course Winter Recreation Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	28,000	Purchase equipment to support ice skating on the pond near the 9th green.
	General G.O. Bonds	25,000	Replace trail groomer and snowmobile for cross country skiing at Beaver Meadow.
		\$53,000	2020 Subtotal
2027	General Impact Fees Rec Dist 1	25,000	Purchase recreational equipment; cross country skies and boots and skates for rental.
		\$25,000	2027 Subtotal
	TOTAL	\$78,000	

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	250,000	0	0	0	0	0	0	0	0	250,000
General	Highway Reserve	0	75,000	75,000	75,000	100,000	0	0	0	0	0	325,000
	Total	0	325,000	75,000	75,000	100,000	0	0	0	0	0	575,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #518-Bridge and Dam Maintenance / Repairs

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	250,000	Rehabilitation of a section of the Turtle Town Pond Dam that is structurally deficient.
	General Highway Reserve	75,000	Pressure wash and seal three municipal bridges. Washington Street over Mill Outlet (045/085) Washington Street over Canal Outlet (048/082) Island Road over Canal Inlet (053/071)
		\$325,000	2019 Subtotal
2020	General Highway Reserve	75,000	Pressure wash and seal three municipal bridges. Loudon Road over Merrimack River (163/111) Loudon Road over Storrs Street (160/103) Manchester Street over Merrimack River (185/104)
		\$75,000	2020 Subtotal
2021	General Highway Reserve	75,000	Pressure wash and seal three municipal bridges. Horse Hill Road over Contoocook River (069/052) Commercial Street over Wattanummon Brook (140/113) Water Street over BMRR (180/100)
		\$75,000	2021 Subtotal
2022	General Highway Reserve	100,000	Pressure wash and seal four municipal bridges. Hoit Road over Hayward Brook (053/139) Currier Road over Ash Brook (130/019) Delta Drive over Pedestrian Walk (142/113) Langley Parkway over Pedestrian Walk (173/071)
		\$100,000	2022 Subtotal
TOTAL		\$575,000	

**2018-2027
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:	<input type="checkbox"/> New	<input type="checkbox" value="H"/> Safety	<input type="checkbox" value="M"/> Facility Cond.	<input type="checkbox" value="H"/> Productivity	
	<input 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="L"/> 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	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	415,000	0	0	415,000
General	Impact Fees Traf Dist 4	0	0	0	0	0	0	0	85,000	0	0	85,000
	Total	0	0	0	0	0	0	0	500,000	0	0	500,000

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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 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="M"/> Mandates	<input type="checkbox" value="H"/> Service Def.	<input type="checkbox" value="L"/> 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="M"/> Council Goals	<input type="checkbox" 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #520-Intersection Safety Improvements

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	50,000	0	0	0	0	0	100,000	150,000	0	300,000
	Total	0	50,000	0	0	0	0	0	100,000	150,000	0	300,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	50,000	Reconstruction of the Abbott Road / Sewalls Falls Road Intersection.
		\$50,000	2019 Subtotal
2025	General G.O. Bonds	100,000	Reconstruction of the Mountain Road / Sanborn Road Intersection.
		\$100,000	2025 Subtotal
2026	General G.O. Bonds	50,000	Reconstruction of the Borough Road / Lilac Street Intersection.
	General G.O. Bonds	50,000	Reconstruction of the Carter Hill / Lakeview Drive Intersection.
	General G.O. Bonds	50,000	Reconstruction of the Graham Road / Snow Pond Intersection.
		\$150,000	2026 Subtotal
	TOTAL	\$300,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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	<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 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 checked="" type="checkbox"/> Rebuild	<input type="text" value="H"/>	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 provide for periodic repair and refurbishment of the Concord Police Department Firearms Range. Proposed improvements include removal of the training shoot 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 are required to qualify twice each year.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 10

Expected Bond Term (in Years)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #521-Police Firearms Range Improvements

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	0	0	20,000	0	0	0	0	0	0	20,000
General	G.O. Bonds	0	160,000	0	0	0	0	0	0	0	0	160,000
	Total	0	160,000	0	20,000	0	0	0	0	0	0	180,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	160,000	Phase II: Resurfacing of existing lot (Pistol range), remove rotted awning and construct new awning. Remove and dispose of existing shoot house.
		\$160,000	2019 Subtotal
2021	General Capital Transfer	20,000	Remove lead from berms, restore berms, replace range wall timbers as necessary.
		\$20,000	2021 Subtotal
	TOTAL	\$180,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #522-Patrol Rifle Replacements

I. PROJECT TYPE: Public Safety

II. LOCATION: Concord Police Department

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED: New M Safety N/A Facility Cond. N/A Productivity
 Replace L 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 Other
 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 the Police Department's rifles.

SERVICE IMPACT: The Concord Police Department seeks to add to our existing inventory of individually issued Colt M-4, Model LE6940 rifles, as well as upgrading the optics and lighting on new and existing rifles. The Colt M-4 is a desirable long arm to be deployed in the field during critical incidents. The Department is seeking sufficient supply of rifles so as they may be individually assigned to officers rather than used as a pooled resource.

IMPACT IF NOT FUNDED: The department will continue to rely upon an inventory of rifles consisting of a mix of shot guns and Colt M-4 rifles. Rifles will continue to be used as a pooled resource, which is inefficient during critical incidents.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	20,000	25,000	0	0	0	0	0	0	0	0	45,000
	Total	20,000	25,000	0	0	0	0	0	0	0	0	45,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #522-Patrol Rifle Replacements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	20,000	Phase 1 of 2. Purchase 13 rifles.
		<u>\$20,000</u>	2018 Subtotal
2019	General G.O. Bonds	25,000	Phase 2 of 2. Purchase 17 rifles.
		<u>\$25,000</u>	2019 Subtotal
	TOTAL	<u>\$45,000</u>	

**2018-2027
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 SERVED: New M Safety N/A Facility Cond. N/A Productivity
 Replace L Mandates L Service Def. N/A Tax Base Exp. N/A City Master Pl.
 Rebuild N/A O + M Costs N/A Council Goals L Timeliness Long-Range Planning
 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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	30,000	0	0	0	0	0	0	0	0	30,000
	Total	0	30,000	0	0	0	0	0	0	0	0	30,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: INFORMATION TECHNOLOGY #525-Telephone System Replacement Program

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General G.O. Bonds	30,000	New voicemail system.
		<u>\$30,000</u>	2019 Subtotal
	TOTAL	<u>\$30,000</u>	

**2018-2027
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:	<input type="checkbox"/> New	<input type="checkbox" value="L"/> Safety	<input type="checkbox" value="N/A"/> 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="N/A"/> 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"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	500,000	0	0	0	500,000
	Total	0	0	0	0	0	0	500,000	0	0	0	500,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2024	General G.O. Bonds	500,000	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.
		\$500,000	2024 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	FIRE	#527-Cardiac Monitor & AED Replacement Program	
	TOTAL		\$500,000

**2018-2027
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	<input type="checkbox"/> New	<input type="text" value="H"/> Safety	<input type="text" value="H"/> Facility Cond.	<input type="text" value="N/A"/> Productivity	
SERVED:	<input checked="" type="checkbox"/> Replace	<input type="text" value="M"/> 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	
	<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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	185,000	0	0	0	0	185,000
General	Capital Transfer	0	20,000	0	0	0	0	0	0	0	0	20,000
	Total	0	20,000	0	0	0	185,000	0	0	0	0	205,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #528-Pocket Parks

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General Capital Transfer	20,000	Crack seal and/or resurface basketball courts in three pocket parks.
		\$20,000	2019 Subtotal
2023	General G.O. Bonds	185,000	Replace playground equipment in four pocket parks.
		\$185,000	2023 Subtotal
	TOTAL	\$205,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #529-Storrs Street Parking Garage (Formerly Capital Commons)

I. PROJECT TYPE: Parking

II. LOCATION: 75 Storrs Street

III. PROJECT OBJECTIVES AND BACKGROUND

NEED SERVED: New M Safety L Facility Cond. N/A Productivity
 Replace L Mandates L Service Def. N/A Tax Base Exp. L City Master Pl.
 Rebuild N/A O + M Costs N/A Council Goals H 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 Storrs Street Parking Garage (formerly known as the Capital Commons Municipal Parking Garage). The garage opened in July 2007. The 177,000SF facility contains 516 parking spaces.

Proposed improvements include, but are not limited to, structural repairs, parking deck seal coating and waterproofing, as well as 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. Unmitigated deterioration of parking structure could result in loss of revenue due to decreased usage and prolonged closures necessitated by more extensive repairs resulting from neglect.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Parking	Capital Transfer	0	0	0	22,750	0	24,850	0	27,500	0	0	75,100
Parking	G.O. Bonds	0	600,000	0	0	0	0	350,000	0	0	875,000	1,825,000
	Total	0	600,000	0	22,750	0	24,850	350,000	27,500	0	875,000	1,900,100

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CITY MANAGER /OPERATION #529-Storrs Street Parking Garage (Formerly Capital Commons)

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Parking G.O. Bonds	600,000	Concrete repairs (\$4,600), waterproofing repairs & replacement (\$215,000), Plumbing repairs including new water service (\$70,000), new surveillance system (\$75,000), improved exterior signage (\$30,000), gates and signage for permit system (\$50,000), masonry and door repairs for Red River Theatre vestibule (\$30,000), repaint pavement markings (\$9,000), as well as A&E services and contingency.
		\$600,000	2019 Subtotal
2021	Parking Capital Transfer	22,750	Clean drainage system (\$12,750), repaint pavement markings (\$10,000)
		\$22,750	2021 Subtotal
2023	Parking Capital Transfer	24,850	Clean drainage system (\$14,000), repaint pavement markings (\$10,850).
		\$24,850	2023 Subtotal
2024	Parking G.O. Bonds	350,000	Concrete repairs (\$6,000), waterproofing repairs and replacement (\$275,000), A&E services and contingency.
		\$350,000	2024 Subtotal
2025	Parking Capital Transfer	27,500	Clean drainage system (\$15,500), repaint pavement markings (\$12,000).
		\$27,500	2025 Subtotal
2027	Parking G.O. Bonds	875,000	Twenty year renovation. Repair / replace mechanical systems (\$4,000), repair / replace plumbing system (\$310,000), upgrade lighting fixtures (\$200,000), replace elevator (\$175,000), repaint pavement markings (\$13,000), as well as A&E services and contingency.
		\$875,000	2027 Subtotal
	TOTAL	\$1,900,100	

**2018-2027
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	<input type="checkbox"/> New	<input type="checkbox"/> M Safety	<input type="checkbox"/> M Facility Cond.	<input type="checkbox"/> M Productivity	
SERVED:	<input checked="" 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"/> N/A 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	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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Golf	G.O. Bonds	60,000	0	160,000	60,000	0	30,000	0	0	0	0	310,000
	Total	60,000	0	160,000	60,000	0	30,000	0	0	0	0	310,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #530-Golf Course Equipment

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	Golf G.O. Bonds	60,000	Replace chemical sprayer.
		\$60,000	2018 Subtotal
2020	Golf G.O. Bonds	130,000	Replace 2 fairway mowers.
	Golf G.O. Bonds	30,000	Replace one utility vehicle.
		\$160,000	2020 Subtotal
2021	Golf G.O. Bonds	30,000	Replace 1980 bed knife grinder and reel grinder.
	Golf G.O. Bonds	30,000	Replace triplex mower.
		\$60,000	2021 Subtotal
2023	Golf G.O. Bonds	30,000	Replace one utility vehicle.
		\$30,000	2023 Subtotal
	TOTAL	\$310,000	

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Airport	Capital Transfer	0	0	0	0	0	0	0	8,334	37,500	60,000	105,834
Other	State	0	0	0	0	0	0	0	8,334	37,500	60,000	105,834
Other	Federal	0	0	0	0	0	0	0	150,000	675,000	1,080,000	1,905,000
	Total	0	0	0	0	0	0	0	166,668	750,000	1,200,000	2,116,668

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #534-Tie Down Rehabilitation and Expansion

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2025	Other Federal	150,000	Design reconstruction and expansion of tie-down area. Federal share.
	Airport Capital Transfer	8,334	City share.
	Other State	8,334	State share.
		\$166,668	2025 Subtotal
2026	Other Federal	675,000	Construct approximately 2 acres of new aircraft tie down aprons. Federal share.
	Other State	37,500	State share.
	Airport Capital Transfer	37,500	City share.
		\$750,000	2026 Subtotal
2027	Other Federal	1,080,000	Reconstruct existing aircraft tie down aprons. Federal share.
	Airport Capital Transfer	60,000	City share.
	Other State	60,000	State share.
		\$1,200,000	2027 Subtotal
TOTAL		\$2,116,668	

**2018-2027
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:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> H Safety	<input type="checkbox"/> L Facility Cond.	<input type="checkbox"/> M Productivity	
	<input 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"/> L 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: 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. Intersection improvements could be in the form of a roundabout or traffic signal.

SERVICE IMPACT: Improved vehicle safety and increased capacity along this designated arterial corridor.

IMPACT IF NOT FUNDED: Potential increases in congestion and accidents, as well as potentially reduced Level of Service.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	425,000	0	0	425,000
General	Impact Fees Traf Dist 4	0	0	0	0	0	0	75,000	0	0	0	75,000
	Total	0	0	0	0	0	0	75,000	425,000	0	0	500,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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
	TOTAL	\$500,000	

**2018-2027
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"/> 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"/> 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #543-Merrimack River Greenway Trail Project

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	1,100,000	0	0	1,100,000
Other	State	0	800,000	0	0	800,000	0	0	8,800,000	0	0	10,400,000
General	Donations	0	200,000	0	0	200,000	0	0	1,100,000	0	0	1,500,000
	Total	0	1,000,000	0	0	1,000,000	0	0	11,000,000	0	0	13,000,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Other State	800,000	Design and construction of Phase 1 (A) of the Merrimack River Greenway Trail (MRGT) from Manchester Street to Loudon Road to be funded with a NHDOT Grant and donations. Design/Administration: \$125,000 Construction: \$800,000 Construction Engineering/Administration: \$75,000
	General Donations	200,000	Design and construction of Phase 1 (A) of the MRGT. Donation portion (20%)
		<u>\$1,000,000</u>	2019 Subtotal
2022	Other State	800,000	Design and construction of Phase 1 (B) of the Merrimack River Greenway Trail (MRGT) from Manchester Street to Loudon Road to be funded with a NHDOT Grant and donations. Design/Administration: \$125,000 Construction: \$800,000 Construction Engineering/Administration: \$75,000
	General Donations	200,000	Design and construction of Phase 1 (B) of the MRGT. Donation portion (20%)
		<u>\$1,000,000</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)

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#543-Merrimack River Greenway Trail Project	
			Design/Administration: \$1,650,000
			Construction: \$8,250,000
			Construction Engineering/Administration: \$1,100,000
		\$11,000,000	2025 Subtotal
TOTAL		\$13,000,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #550-Roundabout Maintenance

I. PROJECT TYPE: Intersections

II. LOCATION: Roundabout at Liberty/Centre/Auburn, North State/Franklin, and Washington/Village 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	50,000	0	50,000	0	0	0	75,000	0	0	175,000
	Total	0	50,000	0	50,000	0	0	0	75,000	0	0	175,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #550-Roundabout Maintenance

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	General Capital Transfer	50,000	Major scheduled maintenance improvements to the Liberty/Auburn/Centre roundabout.
		<u>\$50,000</u>	2019 Subtotal
2021	General Capital Transfer	50,000	Major scheduled maintenance improvements to the North State/Franklin roundabout.
		<u>\$50,000</u>	2021 Subtotal
2025	General Capital Transfer	75,000	Major scheduled maintenance improvements to the Village/Washington roundabout.
		<u>\$75,000</u>	2025 Subtotal
TOTAL		<u>\$175,000</u>	

**2018-2027
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:	<input type="checkbox"/> New	<input type="checkbox" value="M"/> M	Safety	<input type="checkbox" value="L"/> L	Facility Cond.	<input type="checkbox" value="L"/> L	Productivity		
	<input type="checkbox"/> Replace	<input type="checkbox" value="L"/> L	Mandates	<input type="checkbox" value="L"/> L	Service Def.	<input type="checkbox" value="N/A"/> N/A	Tax Base Exp.	<input type="checkbox" value="N/A"/> N/A	City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="N/A"/> N/A	O + M Costs	<input type="checkbox" value="L"/> L	Council Goals	<input type="checkbox" value="L"/> L	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 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. Should the new library project move forward in the future, then the City may defer or entirely 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	0	0	0	0	10,000	0	0	0	0	10,000
General	G.O. Bonds	50,000	30,000	70,000	125,000	155,000	130,000	130,000	100,000	300,000	0	1,090,000
	Total	50,000	30,000	70,000	125,000	155,000	140,000	130,000	100,000	300,000	0	1,100,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #551-Library Maintenance

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	35,000	Replace chair lift in Main Library. (Green Street)
	General G.O. Bonds	15,000	Masonry and flashing repairs for the parapet wall which encircles the Library's roof. (Green Street)
		\$50,000	2018 Subtotal
2019	General G.O. Bonds	20,000	Paint, flooring and ceiling tile upgrades. (Green Street)
	General G.O. Bonds	10,000	Door, window and hardware upgrades. (Green Street)
		\$30,000	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)
		\$125,000	2021 Subtotal
2022	General G.O. Bonds	75,000	Handicap ramp replacement. (Penacook)
	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)
		\$155,000	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. (Green Street)
	General Capital Transfer	10,000	Chimney repair. (Penacook)
		\$140,000	2023 Subtotal
2024	General G.O. Bonds	100,000	Furniture and finishes upgrades.
	General G.O. Bonds	30,000	Fire alarm system upgrades. (Green Street)

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES	#551-Library Maintenance	
		\$130,000	2024 Subtotal
2025	General G.O. Bonds	100,000	Refurbish HVAC system and controls. (Green Street)
		\$100,000	2025 Subtotal
2026	General G.O. Bonds	300,000	Window refurbishment/replacement. (Green Street)
		\$300,000	2026 Subtotal
	TOTAL	\$1,100,000	

**2018-2027
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="checkbox" value="H"/> Safety	<input type="checkbox" value="L"/> Facility Cond.	<input type="checkbox" value="N/A"/> Productivity	
SERVED:	<input checked="" 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="N/A"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox" value="H"/> 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: 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 a decade 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 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	0	0	0	0	0	0	0	0	50,000	50,000
	Total	0	0	0	0	0	0	0	0	0	50,000	50,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #555-Handgun Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2027	General Capital Transfer	50,000	Replacement of Handguns purchased new in FY2017.
		\$50,000	2027 Subtotal
	TOTAL	\$50,000	

**2018-2027
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"/> 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.
 Parks

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	250,000	30,000	1,135,000	120,000	0	0	0	0	0	0	1,535,000
	Total	250,000	30,000	1,135,000	120,000	0	0	0	0	0	0	1,535,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	250,000	Full depth reconstruction of 5 tennis courts.
		<u>\$250,000</u>	2018 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	REC-GROUNDS	#557-Memorial Field		
2019	General G.O. Bonds	30,000		Update of the 2012 Structural Engineering Assessment of bleachers at the football stadium bleachers and Doane Diamond. Updated report shall include a revised opinion of cost for proposed repair or replacement of the bleachers.
		\$30,000	2019 Subtotal	
2020	General G.O. Bonds	790,000		Repair / replacement of foot ball stadium bleachers, together with the press box and related improvements. (Design and Construction).
	General G.O. Bonds	315,000		Repair or replace bleachers at Doane Diamond.
	General G.O. Bonds	30,000		Remove and install new asphalt pavement beneath selected bleacher sections serving the football stadium.
		\$1,135,000	2020 Subtotal	
2021	General G.O. Bonds	120,000		Resurface the track. Last resurfacing in 2008.
		\$120,000	2021 Subtotal	
	TOTAL	\$1,535,000		

**2018-2027
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	<input type="checkbox"/> New	<input type="checkbox"/> M Safety	<input type="checkbox"/> M Facility Cond.	<input type="checkbox"/> Productivity	
SERVED:	<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"/> City Master Pl.
	<input type="checkbox"/> Rebuild	<input type="checkbox"/> H O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> M Timeliness	
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

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 need to temporarily place 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)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #560-Fire Training Facility

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	570,000	0	0	0	0	0	0	0	0	0	570,000
General	Capital Close-out	29,250	0	0	0	0	0	0	0	0	0	29,250
	Total	599,250	0	0	0	0	0	0	0	0	0	599,250

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	570,000	Construction of new Fire Training Grounds facility at the Old Turnpike Road Landfill. Alternate location might be City owned property located near 30 Terrill Park Drive. (Design and construction).
	General Capital Close-out	29,250	Close-out share. Fire Training Grounds relocation / replacement.
		<u>\$599,250</u>	2018 Subtotal
	TOTAL	<u>\$599,250</u>	

**2018-2027
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: New H Safety H Facility Cond. N/A Productivity
 Replace L Mandates H Service Def. Tax Base Exp. _____ City Master Pl.
 Rebuild N/A O + M Costs Council Goals Timeliness
 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	10,000	0	0	0	0	0	0	0	0	10,000
General	G.O. Bonds	40,000	135,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	575,000
	Total	40,000	145,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	585,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #561-Fire Alarm Infrastructure Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	40,000	Phase II-Form Four Replacement.
		\$40,000	2018 Subtotal
2019	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)
	General G.O. Bonds	45,000	Replace failing fire alarm cabling along Airport Road.
	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.
	General Capital Transfer	10,000	Remove Civil Defense Sirens that have been out of service for over 28 years.
		\$145,000	2019 Subtotal
2020	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)
		\$50,000	2020 Subtotal
2021	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)
		\$50,000	2021 Subtotal
2022	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)
		\$50,000	2022 Subtotal
2023	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)
		\$50,000	2023 Subtotal
2024	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)
		\$50,000	2024 Subtotal
2025	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	FIRE #561-Fire Alarm Infrastructure Replacement	\$50,000	
			2025 Subtotal
2026	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)
		\$50,000	2026 Subtotal
2027	General G.O. Bonds	50,000	Replacement of failing fire alarm cable. (City wide)
		\$50,000	2027 Subtotal
	TOTAL	\$585,000	

**2018-2027
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 Safety Facility Cond. Productivity
 Replace Mandates Service Def. Tax Base Exp. City Master Pl.
 Rebuild O + M Costs Council Goals Timeliness Long-Range Planning
 Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

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 demographic changes, as well as economic and real estate trends, 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 inefficient use of real estate, 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) 10

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	200,000	0	0	0	0	0	0	200,000
	Total	0	0	0	200,000	0	0	0	0	0	0	200,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #563-Master Plan Update

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2021	General G.O. Bonds	200,000	Placeholder for outside services to assist with updating the City's 2008 Master Plan. Project timed to coincide with the release of 2020 Census Data.
		\$200,000	2021 Subtotal
TOTAL		<hr/> \$200,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #567-Penacook Riverfront Parks

I. PROJECT TYPE: Parks and Open Space

II. LOCATION: Tanner Street & 11-35 Canal 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 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, as well as a proposed new riverfront park to be located on portions of the former Allied Leather Tannery Complex at 11 - 35 Canal Street.

Property comprising the Tanner Street Riverfront Park was assembled by the City during 1947 - 1982. The last major capital investment for the property occurred in the late 1980s. Projects included within this CIP for the Tanner Street Park 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.

The second river front park is a new facility which will be constructed on a 1.5 acre portion of the former Allied Leather Tannery site located at 11-35 Canal Street, Penacook. Proposed improvements will be based on preliminary conceptual designs prepared by CMA Engineers and Ironwood Landscape Architects in 2015.

SERVICE IMPACT: Improvements will help revitalize an underutilized public properties 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 Tanner Street facility 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. Failure to proceed with the new park at the former Tannery Site will result in a missed opportunity to improve an important waterfront property which could help leverage future redevelopment of the remaining Tannery site and abutting properties.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #567-Penacook Riverfront Parks

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	185,000	0	0	0	0	0	185,000
Other	Tax Increment Financing	0	0	1,200,000	0	0	0	0	0	0	0	1,200,000
	Total	0	0	1,200,000	0	185,000	0	0	0	0	0	1,385,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	Other Tax Increment Financing	1,200,000	Design and construction of a new riverfront park to be set on 1.5 +/- acres of the former Allied Leather Tannery site located at 11-35 Canal Street. The Park's final design shall be based upon preliminary concepts prepared by CMA Engineers and Ironwood Landscape Architects in 2015.
		\$1,200,000	2020 Subtotal
2022	General G.O. Bonds	150,000	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	35,000	Acquisition of abutting private property, including due diligence and legal costs, as well as installation of improvements.
		\$185,000	2022 Subtotal
	TOTAL	\$1,385,000	

**2018-2027
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	<input type="checkbox"/> New	<input type="checkbox"/> Safety	<input type="checkbox"/> Facility Cond.	<input type="checkbox"/> Productivity	
SERVED:	<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 the Parks and Recreation Department's smaller turf equipment. Phased replacement of equipment will minimize potential service interruptions due to break downs / failures.

SERVICE IMPACT: Routine replacement maintains or improves current levels of service for maintenance of recreational assets, helps provide for more efficient maintenance of facilities due to advances in equipment technology, reduces repair costs due to use of newer equipment, and reduce repair costs and equipment "downtime" due to use of new equipment.

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 result in 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	35,000	66,000	11,000	19,000	49,000	53,000	0	0	0	0	233,000
	Total	35,000	66,000	11,000	19,000	49,000	53,000	0	0	0	0	233,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #569-Parks and Cemeteries Small Turf Equipment

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	25,000	Replace 2008 John Deere mower with 2,400 +/- hours of use. (Cemeteries)
	General G.O. Bonds	10,000	Replace two (2) 2004 front mounted leaf blower attachments. (Parks and Cemeteries)
		\$35,000	2018 Subtotal
2019	General G.O. Bonds	25,000	Replace 2004 John Deere mower with 72" deck with 2,300 hours of use. (Parks)
	General G.O. Bonds	23,000	Replace infield pro. (Parks)
	General G.O. Bonds	18,000	Replace out-front rotary mower. (Cemeteries)
		\$66,000	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. (Cemeteries)
		\$19,000	2021 Subtotal
2022	General G.O. Bonds	28,000	Replace small loader/backhoe. (Cemeteries)
	General G.O. Bonds	21,000	Replace out front rotary mower.
		\$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 mower. (Cemeteries)
		\$53,000	2023 Subtotal
TOTAL		\$233,000	

**2018-2027
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:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> H Safety	<input type="checkbox"/> H Facility Cond.	<input type="checkbox"/> H Productivity	
	<input type="checkbox"/> Replace	<input type="checkbox"/> M Mandates	<input type="checkbox"/> L Service Def.	<input type="checkbox"/> M 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	Intersection Improvement
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

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 unresolved 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	900,000	0	0	900,000
	Total	0	0	0	0	0	0	0	900,000	0	0	900,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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.
		<u>\$900,000</u>	2025 Subtotal
	TOTAL	<u>\$900,000</u>	

**2018-2027
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, undertaken in cooperation with NHDOT and NHDES, shall replace affected drainage systems and provide improved 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 ongoing 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #571-I-393/Horseshoe Pond Drainage Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	100,000	Potential mitigation payment for wetland impacts associated with proposed storm water improvements.
		\$100,000	2018 Subtotal
	TOTAL	\$100,000	

**2018-2027
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	<u>N/A</u> Safety	<u>H</u> Facility Cond.	<u>L</u> Productivity	
	<input checked="" type="checkbox"/> Replace	<u>N/A</u> Mandates	<u>L</u> Service Def.	<u>M</u> Tax Base Exp.	<u>H</u> City Master Pl.
	<input type="checkbox"/> Rebuild	<u>N/A</u> O + M Costs	<u>M</u> Council Goals	<u>M</u> 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 the 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Airport	Capital Transfer	0	0	0	0	0	10,554	0	0	0	0	10,554
Other	Federal	0	0	0	0	0	190,000	0	0	0	0	190,000
Other	State	0	0	0	0	0	10,554	0	0	0	0	10,554
	Total	0	0	0	0	0	211,108	0	0	0	0	211,108

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #572-Airport Master Plan

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2023	Other Federal	190,000	Airport Master Plan Update. Federal share.
	Other State	10,554	State share.
	Airport Capital Transfer	10,554	City share.
		\$211,108	2023 Subtotal
TOTAL		\$211,108	

**2018-2027
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: The purpose of this project is to provide funding for routine replacement of Personal Protective Equipment (PPE) for 90 members of the Fire Department. 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. The Fire Department inspects its protective gear biannually for the purpose of prioritizing replacement needs.

This project also includes systematic replacement of self contained personal breathing apparatus (63 Self Contained Breathing Apparatus (SCBA) units and 2 RIT packs).

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	20,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	0	260,000
General	G.O. Bonds	0	0	0	30,000	0	0	0	750,000	30,000	0	810,000
	Total	20,000	30,000	30,000	60,000	30,000	30,000	30,000	780,000	60,000	0	1,070,000

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #573-Fire Department Personnel Protective Equipment

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General Capital Transfer	20,000	Systematic replacement of firefighting protective clothing.
		\$20,000	2018 Subtotal
2019	General Capital Transfer	30,000	Systematic replacement of firefighting protective clothing.
		\$30,000	2019 Subtotal
2020	General Capital Transfer	30,000	Systematic replacement of firefighting protective clothing.
		\$30,000	2020 Subtotal
2021	General G.O. Bonds	30,000	Replacement of Active Shooter PPE
	General Capital Transfer	30,000	Systematic replacement of firefighting protective clothing.
		\$60,000	2021 Subtotal
2022	General Capital Transfer	30,000	Systematic replacement of firefighting protective clothing.
		\$30,000	2022 Subtotal
2023	General Capital Transfer	30,000	Systematic replacement of firefighting protective clothing.
		\$30,000	2023 Subtotal
2024	General Capital Transfer	30,000	Systematic replacement of firefighting protective clothing.
		\$30,000	2024 Subtotal
2025	General G.O. Bonds	750,000	Breathing apparatus replacement purchased in FY2015.
	General Capital Transfer	30,000	Systematic replacement of firefighting protective clothing.
		\$780,000	2025 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	FIRE	#573-Fire Department Personnel Protective Equipment		
2026	General G.O. Bonds	30,000	Active Shooter personal protective equipment replacement.	
	General Capital Transfer	30,000	Systematic replacement of firefighting protective clothing.	
		<u>\$60,000</u>	2026 Subtotal	
	TOTAL	<u>\$1,070,000</u>		

**2018-2027
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"/> H Safety	<input type="checkbox"/> H Facility Cond.	<input type="checkbox"/> N/A Productivity	
	<input checked="" 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"/> N/A 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	
	<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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General Equip Replace Reserve		35,750	0	0	0	0	0	0	0	0	0	35,750
General G.O. Bonds		0	0	150,000	0	0	0	0	0	0	0	150,000
General Capital Close-out		8,913	0	0	0	0	0	0	0	0	0	8,913
General Capital Transfer		135,250	150,000	220,000	160,000	170,000	170,000	180,000	180,000	190,000	190,000	1,745,250
	Total	179,913	150,000	370,000	160,000	170,000	170,000	180,000	180,000	190,000	190,000	1,939,913

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #575-Police Vehicle & Equipment Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General Capital Transfer	114,250	Replacement of 4 vehicles.
	General Equip Replace Reserve	35,750	Equipment Reserve Fund share. Replacement of 4 vehicles.
	General Capital Close-out	8,913	Close-out share. Light bar replacement project.
	General Capital Transfer	21,000	Phase III: Cruiser light bar replacement. Replace 6 cruiser light bars.
		\$179,913	2018 Subtotal
2019	General Capital Transfer	150,000	Replacement of 4 vehicles.
		\$150,000	2019 Subtotal
2020	General Capital Transfer	160,000	Replace 4 vehicles.
	General G.O. Bonds	150,000	Replace Police Command Vehicle.
	General Capital Transfer	60,000	Replace Evidence Van.
		\$370,000	2020 Subtotal
2021	General Capital Transfer	160,000	Replace 4 vehicles.
		\$160,000	2021 Subtotal
2022	General Capital Transfer	170,000	Replace 4 vehicles.
		\$170,000	2022 Subtotal
2023	General Capital Transfer	170,000	Replace 4 vehicles.
		\$170,000	2023 Subtotal
2024	General Capital Transfer	180,000	Replace 4 vehicles.
		\$180,000	2024 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	POLICE - OPERATIONS	#575-Police Vehicle & Equipment Replacement
2025	General Capital Transfer	180,000 Replace 4 vehicles.
		<u>180,000</u> 2025 Subtotal
2026	General Capital Transfer	190,000 Replace 4 vehicles.
		<u>190,000</u> 2026 Subtotal
2027	General Capital Transfer	190,000 Replace 4 vehicles.
		<u>190,000</u> 2027 Subtotal
	TOTAL	<u>\$1,939,913</u>

**2018-2027
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:	<input 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"/> M Mandates	<input type="checkbox"/> H Service Def.	<input type="checkbox"/> N/A Tax Base Exp.	_____ City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<input type="checkbox"/> M O + M Costs	<input type="checkbox"/> N/A Council Goals	<input type="checkbox"/> N/A Timeliness	
	<input type="checkbox"/> 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	30,000	30,000	30,000	30,000	30,000	35,000	35,000	35,000	35,000	290,000
General	G.O. Bonds	40,000	0	0	0	0	0	0	0	0	0	40,000
	Total	40,000	30,000	30,000	30,000	30,000	30,000	35,000	35,000	35,000	35,000	330,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #576-General Facility Repairs

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	25,000	Purchase power man lift for General Services Department Public Properties Division.
	General G.O. Bonds	15,000	Ductless split replacement at City Hall.
		\$40,000	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.
		\$30,000	2023 Subtotal
2024	General Capital Transfer	35,000	Placeholder for future projects.
		\$35,000	2024 Subtotal
2025	General Capital Transfer	35,000	Placeholder for future projects.
		\$35,000	2025 Subtotal
2026	General Capital Transfer	35,000	Placeholder for future projects.

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES	#576-General Facility Repairs	
		\$35,000	2026 Subtotal
2027	General Capital Transfer	35,000	Placeholder for future projects.
		\$35,000	2027 Subtotal
	TOTAL	\$330,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: GS-PUBLIC PROPERTIES #579-Downtown Squares

I. PROJECT TYPE: Downtown

II. LOCATION: Bicentennial Square and Eagle 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 and Eagle Square amenities.

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 squares are closed to the public, 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	25,000	0	60,000	0	0	0	0	0	600,000	685,000
	Total	0	25,000	0	60,000	0	0	0	0	0	600,000	685,000

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

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	GS-PUBLIC PROPERTIES	#579-Downtown Squares	
2021	General G.O. Bonds	60,000	Refurbish the stairs at Eagle Square Amphitheater.
		\$60,000	2021 Subtotal
2027	General G.O. Bonds	600,000	Replacement of brick pavers and related infrastructure throughout Bicentennial Square.
		\$600,000	2027 Subtotal
	TOTAL	\$685,000	

**2018-2027
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 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="H"/> Timeliness Intersection Improvement
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

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: Vehicle and pedestrian safety concerns at the intersection will not be addressed.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2008

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 25

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

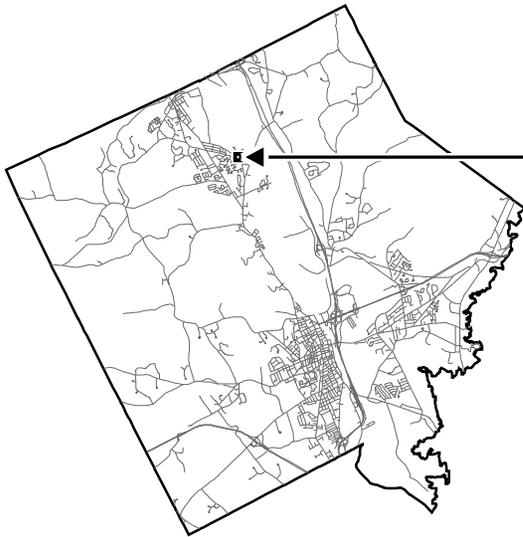
Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Donations	450,000*	0	0	0	0	0	0	0	0	0	450,000
	Total	450,000	0	0	0	0	0	0	0	0	0	450,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

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>	



Disclaimer of Mapping Accuracy
Engineering Services Division
City of Concord, New Hampshire

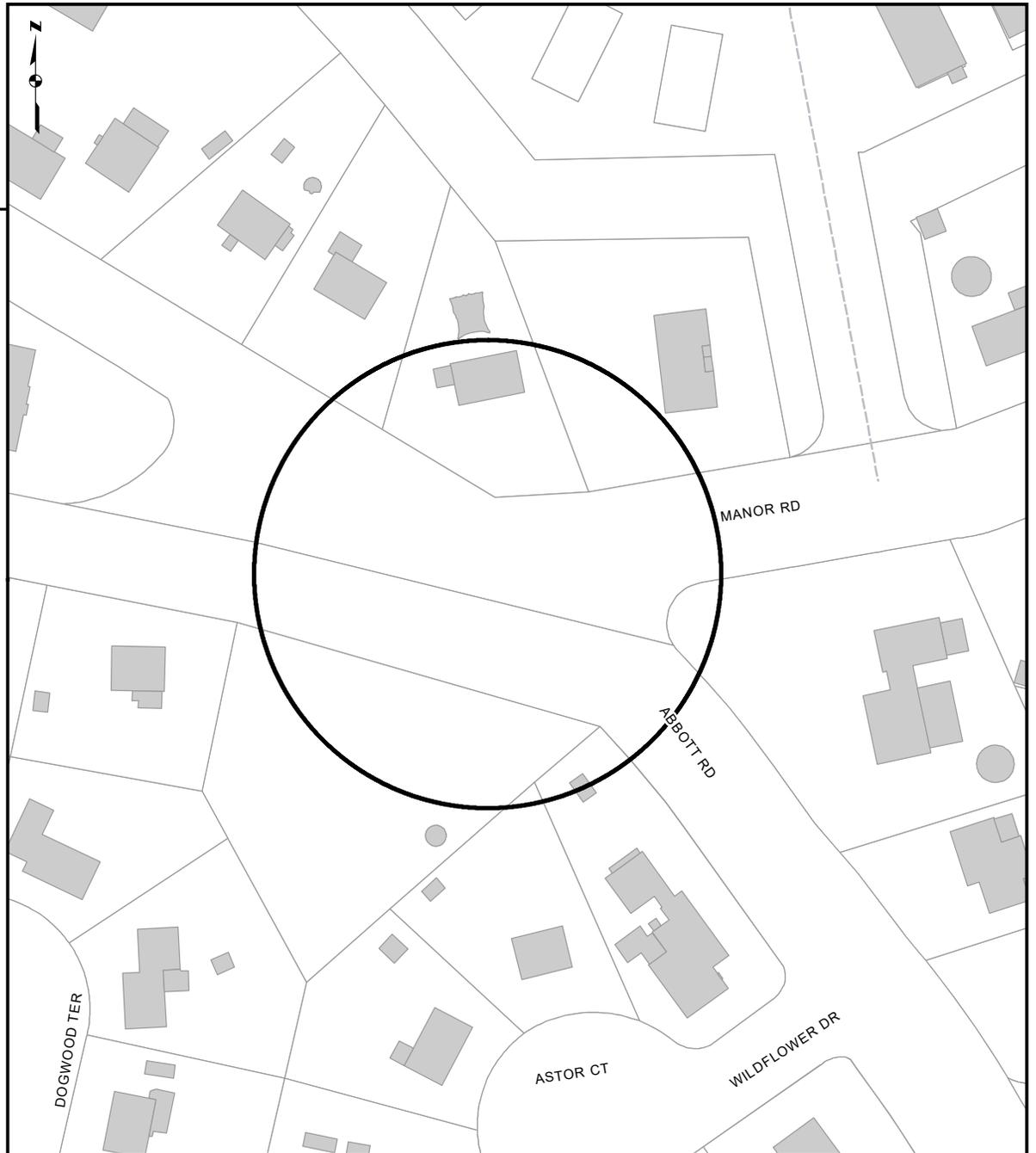
GEOGRAPHIC INFORMATION SYSTEM

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Not to Scale



**FY 2018
CIP PROJECT #582
MANOR ROAD/ABBOTT ROAD
ROUNDAABOUT INTERSECTION
IMPROVEMENT PROJECT**



**2018-2027
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. Timeliness

City Master Pl. 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: Emergency services response times and levels of service for East Concord will remain unchanged.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	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

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #583-East Concord Fire Station

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2026	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	2026 Subtotal
TOTAL		<hr/> \$5,000,000	

**2018-2027
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	State	0	30,000	0	0	0	0	0	0	0	0	30,000
General	G.O. Bonds	0	30,000	0	0	0	0	0	0	0	0	30,000
Other	Federal	0	240,000	0	0	0	0	0	0	0	0	240,000
	Total	0	300,000	0	0	0	0	0	0	0	0	300,000

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
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
2019	Other Federal	240,000	Federal grant share (80%).
	Other State	30,000	State share (10%).
	General G.O. Bonds	30,000	City share (10%).
		\$300,000	2019 Subtotal
	TOTAL	\$300,000	

**2018-2027
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	<u>N/A</u> Safety	<input type="checkbox"/> Facility Cond.	<u>N/A</u> Productivity	
	<input type="checkbox"/> Replace	<u>N/A</u> Mandates	<input type="checkbox"/> Service Def.	<u>N/A</u> Tax Base Exp.	<u>N/A</u> City Master Pl.
	<input checked="" type="checkbox"/> Rebuild	<u>N/A</u> O + M Costs	<input type="checkbox"/> Council Goals	<input type="checkbox"/> 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 funding for routine maintenance and repair of the City's 13 municipal cemeteries. The project also provides funding for cemetery expansion.

SERVICE IMPACT: Periodic investment in cemetery infrastructure will preserve and improve facilities, correct potential liabilities, and maintain community pride in the City's cemeteries. Well maintained facilities also helps the City sell plots within cemeteries.

IMPACT IF NOT FUNDED: Facilities will not be maintained resulting in potential liabilities and decreased community satisfaction with 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	50,000	55,000	55,000	120,000	60,000	160,000	30,000	75,000	350,000	35,000	990,000
	Total	50,000	55,000	55,000	120,000	60,000	160,000	30,000	75,000	350,000	35,000	990,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #587-Cemetery Improvements

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	50,000	Paving select roads Blossom Hill. Phase 1 of 6.
		\$50,000	2018 Subtotal
2019	General G.O. Bonds	55,000	Paving select roads Blossom Hill. Phase 2 of 6.
		\$55,000	2019 Subtotal
2020	General G.O. Bonds	55,000	Paving select roads Blossom Hill. Phase 3 of 6.
		\$55,000	2020 Subtotal
2021	General G.O. Bonds	60,000	To add 250 feet of metal fence. The area in front of Beaver School where cars line up to drop off/pick up currently has not fence separating the graves and the roadway.
	General G.O. Bonds	60,000	Paving select roads Blossom Hill. Phase 4 of 6.
		\$120,000	2021 Subtotal
2022	General G.O. Bonds	60,000	Paving select roads Blossom Hill. Phase 5 of 6.
		\$60,000	2022 Subtotal
2023	General G.O. Bonds	60,000	Paving select roads Blossom Hill. Phase 6 of 6.
	General G.O. Bonds	100,000	Create/Build fire proof room for record storage.
		\$160,000	2023 Subtotal
2024	General G.O. Bonds	30,000	Computer system to convert all paper records to a digital format, as well as improve mapping capabilities for plots and graves.
		\$30,000	2024 Subtotal
2025	General G.O. Bonds	75,000	Dredge pong, fix granite pond wall and guard rail at Blossom Hill.
		\$75,000	2025 Subtotal

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: REC-GROUNDS #587-Cemetery Improvements

2026	General G.O. Bonds	350,000	The historic retaining wall along the access road in blossom Hill failed fall 2016. This project will rebuild the wall as it was prior to the emergency fix that was completed fall 2016.
		\$350,000	2026 Subtotal
2027	General G.O. Bonds	35,000	Purchase Columbarium at Blossom Hill Cemetery
		\$35,000	2027 Subtotal
TOTAL		\$990,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #588-Loudon Road Bridge Improvement Project

I. PROJECT TYPE: Bridges

II. LOCATION: Loudon Road over Merrimack River

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="H"/> Productivity
<input type="checkbox"/> Replace	<input type="checkbox" value="M"/> 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="L"/> O + M Costs	<input type="checkbox" value="L"/> Council Goals	<input type="checkbox" value="H"/> Timeliness

Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis

DESCRIPTION: In a 2015 bridge inspection by NHDOT, conditions of bridge deck, rail, and abutment structures have become structurally deficient and the bridge was placed on the States "Red List" of deficient bridges. This project is intended to address all structural and operational deficiencies.

The project will be funded through the State Municipal Bridge Aid Program (80% State, 20% Local) and will be managed by the City.

SERVICE IMPACT: The Loudon Road corridor is a critical transportation link between the central core of the City and the Heights. Completion of this project will maintain transportation use.

IMPACT IF NOT FUNDED: If not funded, continued deterioration will result in restricted use and eventual closure of the bridge. Significant disruption of regional traffic would likely occur.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2015

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

50

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	2,100,000	0	0	0	0	0	2,100,000
Other	Federal	0	0	0	0	8,400,000	0	0	0	0	0	8,400,000
	Total	0	0	0	0	10,500,000	0	0	0	0	0	10,500,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #588-Loudon Road Bridge Improvement Project

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	Other Federal	8,400,000	Design and construction of deck, rail, and expansion joint replacement, as well as substructure concrete repairs. \$6,170,000 (State portion 80% of project costs paid through State Municipal Bridge Aid Program).
	General G.O. Bonds	2,100,000	City Share of bridge replacement/repairs (20%).
		\$10,500,000	2022 Subtotal
TOTAL		\$10,500,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #589-Downtown Corridor Streetscape Improvement Project

I. PROJECT TYPE: Downtown

II. LOCATION: Side streets within the Central Business District (CBD) between North Main Street and North State Street and 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"/> 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 to side streets within the Central Business District (CBD) as originally outlined in previous Downtown master plans and studies, as well as a continuation of the streetscape improvements of the 2015/2016 Downtown Complete Streets Improvement Project (CIP 460).

Streetscape improvements to side streets during the 2015/2016 Main Street project were limited. This project will continue streetscape improvements including sidewalks, lighting, and way finding signage along Park Street, Capitol Street, School Street, Warren Street, Depot Street, Hills Avenue, Fayette Street, Thompson Street, Concord Street, and Theatre Street.

SERVICE IMPACT: Improved use and appearance of the Downtown Corridor offers great potential for redevelopment of adjacent properties resulting in tax base expansion.

IMPACT IF NOT FUNDED: The opportunity for tax base expansion and the enhancement of downtown business activities would not be realized.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2015

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

20

Expected Bond Term (in Years)

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #589-Downtown Corridor Streetscape Improvement Project

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	450,000	620,000	850,000	610,000	450,000	360,000	200,000	630,000	4,170,000
	Total	0	0	450,000	620,000	850,000	610,000	450,000	360,000	200,000	630,000	4,170,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	450,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Warren Street with particular focus on the entrances to Bicentennial Square and the entrance to Capital Plaza and the School Street Parking Garage.
		\$450,000	2020 Subtotal
2021	General G.O. Bonds	620,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Park Street with particular focus on the entrances to City Plaza.
		\$620,000	2021 Subtotal
2022	General G.O. Bonds	850,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Capitol Street with particular focus on the entrances to City Plaza and Evans Lane.
		\$850,000	2022 Subtotal
2023	General G.O. Bonds	610,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along School Street with particular focus on the entrances to Evans Lane and the School Street Parking Garage.
		\$610,000	2023 Subtotal
2024	General G.O. Bonds	450,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Concord Street.
		\$450,000	2024 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	CD-ENGINEERING SERVICES	#589-Downtown Corridor Streetscape Improvement Project	
2025	General G.O. Bonds	360,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Depot Street with particular focus on the entrances to Low Avenue and Kennedy Lane.
		\$360,000	2025 Subtotal
2026	General G.O. Bonds	200,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Fayette Street.
		\$200,000	2026 Subtotal
2027	General G.O. Bonds	250,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Thompson Street with particular focus on the entrances to the abutting City development parcels.
	General G.O. Bonds	200,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Theatre Street.
	General G.O. Bonds	180,000	Design and construction of streetscape improvements. The final design will incorporate the streetscape vocabulary of the Main Street improvements along Hills Avenue with particular focus on the entrances to public parking areas and the Storrs Street Parking Garage.
		\$630,000	2027 Subtotal
	TOTAL	\$4,170,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #590-Downtown Civic District Sidewalk Replacement

I. PROJECT TYPE: Downtown

II. LOCATION: Various locations between City Hall and State House

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 type="checkbox"/> Replace	<input type="checkbox" value="L"/> Mandates	<input type="checkbox" value="M"/> Service Def.	<input type="checkbox" value="L"/> 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="L"/> Council Goals	<input type="checkbox" value="L"/> Timeliness
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis			

DESCRIPTION: The purpose of this project is to reconstruct concrete sidewalks within the Downtown Civic District bounded by Main Street/Green Street and Centre Street/School Street. Sidewalk improvements include reconstruction of existing concrete sidewalks with accessible ramps and the addition of way finding signage. Improvements and signage will be consistent with the streetscape improvements of the 2015/2016 Downtown Complete Streets Improvement Project (CIP 460).

SERVICE IMPACT: Improved use and appearance of downtown sidewalks will provide a safe and accessible walking surface and offers great potential for redevelopment of adjacent properties resulting in tax base expansion.

IMPACT IF NOT FUNDED: Continued deterioration of sidewalk conditions will occur. The opportunity for tax base expansion and the enhancement of downtown business activities would not be realized.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2015

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	750,000	0	0	0	0	0	0	0	750,000
	Total	0	0	750,000	0	0	0	0	0	0	0	750,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #590-Downtown Civic District Sidewalk Replacement

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	General G.O. Bonds	750,000	Design and construction of sidewalk replacement within the Downtown Civic District. The final design will incorporate the sidewalk and streetscape design details from the Main Street improvements including way finding signage.
		\$750,000	2020 Subtotal
TOTAL		\$750,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #594-New Central Fire Station

I. PROJECT TYPE: Public Buildings

II. LOCATION: To be determined

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"/> Long-Range Planning
	<input type="checkbox"/> Total-Cost-of-Ownership (TCO) or Life-cycle Cost (LCC) analysis				

DESCRIPTION: Design and construction of new combined Central Fire Station.

Central Station was constructed in 1977 and is reaching the end of its useful life. The most recent apparatus purchase (Tower 1) was custom built with clearances of approximately 3 inches from the top of the truck to the door frame and approximately 6 inches at the rear of the truck to the wall and 6 inches at the front of the truck to the bay door. The building has no room for additional vehicles and with the anticipated increases in demand for medical services an additional ambulance will be required in the near future.

SERVICE IMPACT:

IMPACT IF NOT FUNDED: Ability to properly store vehicles and equipment will be compromised as physical dimensions of size of apparatus continuously get larger 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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	5,000,000	5,000,000
	Total	0	0	0	0	0	0	0	0	0	5,000,000	5,000,000

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: FIRE #594-New Central Fire Station

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2027	General G.O. Bonds	5,000,000	Placeholder: Construct and furnish a new Central Fire Station pending outcome of needs assessment and location studies. New building and furnishings only.
		\$5,000,000	2027 Subtotal
TOTAL		<hr/> \$5,000,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #595-Parking Meters

I. PROJECT TYPE: Parking

II. LOCATION: City wide

III. PROJECT OBJECTIVES AND BACKGROUND

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

DESCRIPTION: Project replaces CIP 586. The purpose of this project is to provide funding for maintenance, repair, replacement, and expansion of the City's parking meter system. As of April 2017, the City had 85 Kiosk Units and 375 single space mechanical meters in service which supported approximately 1,223 metered spaces comprised of approximately 408 metered spaces in garages, 49 metered spaces in parking lots, and 766 on-street metered spaces.

SERVICE IMPACT: Routine repair and 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 revenues for the Parking Fund. Periodic expansion of the meter network is also important to appropriately manage this important resource, 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 revenues and increased customer frustrations.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Parking	Capital Transfer	0	5,000	5,000	0	7,000	0	8,000	0	9,000	0	34,000
Parking	G.O. Bonds	0	40,000	190,000	300,000	240,000	0	0	0	0	0	770,000
	Total	0	45,000	195,000	300,000	247,000	0	8,000	0	9,000	0	804,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #595-Parking Meters

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2019	Parking G.O. Bonds	40,000	Purchase and install individual smart meters to serve 50 on-street parking spaces located on South Main Street, Dixon Ave, and Concord Street (between South Main & South State).
	Parking Capital Transfer	5,000	Meter maintenance.
		\$45,000	2019 Subtotal
2020	Parking G.O. Bonds	190,000	Install 247 +/- smart meters on sections of South State (Wall to Concord); Wall Street (South State to South); Chesley Street (Pleasant to Wall); South Street (Wall to Thompson); South Spring (Pleasant to Marshall); North State (Centre to Chapel, east side only), Montgomery Street (North State to Court), Court Street (North Main to North State), North Main (Pitman to Court Street).
	Parking Capital Transfer	5,000	Meter maintenance.
		\$195,000	2020 Subtotal
2021	Parking G.O. Bonds	300,000	Replace 375 single space mechanical meters with smart meters.
		\$300,000	2021 Subtotal
2022	Parking G.O. Bonds	240,000	Convert 85 kiosk units put into service in 2010, as well as 2015-2016 during the Complete Streets Project, to new vendor selected for smart meters. Kiosk housings to remain the same; however internal components and face plates to be replaced.
	Parking Capital Transfer	7,000	Meter maintenance.
		\$247,000	2022 Subtotal
2024	Parking Capital Transfer	8,000	Meter maintenance.
		\$8,000	2024 Subtotal
2026	Parking Capital Transfer	9,000	Meter maintenance.
		\$9,000	2026 Subtotal
TOTAL		\$804,000	

CITY OF CONCORD, NEW HAMPSHIRE

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #595-Parking Meters

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #596-Surface Lots

I. PROJECT TYPE: Parking

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="M"/> 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="N/A"/> O + M Costs	<input type="checkbox" value="N/A"/> Council Goals	<input type="checkbox" value="N/A"/> Timeliness	<input type="checkbox"/> Parking
	<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 repair, replacement, or expansion of the City's 9 municipal parking lots.

SERVICE IMPACT: Appropriately maintained parking lots will minimize or reduce potential liabilities, encourage use by the public, and maintain revenues for the City's Parking Function.

IMPACT IF NOT FUNDED: Parking lots will continue to deteriorate, thereby increasing annual operating and maintenance costs. Drainage infrastructure within parking lots will continue to deteriorate thereby causing potential liability to City.

IV. PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years):

Expected Bond Term (in Years)

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
Other	Tax Increment Financing	0	0	0	0	0	0	0	265,000	0	0	265,000
Parking	G.O. Bonds	0	0	305,000	420,000	0	0	0	50,000	170,000	0	945,000
	Total	0	0	305,000	420,000	0	0	0	315,000	170,000	0	1,210,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #596-Surface Lots

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2020	Parking G.O. Bonds	305,000	Reconstruction of the parking lot adjacent to the Police Department.
		\$305,000	2020 Subtotal
2021	Parking G.O. Bonds	295,000	Reconstruction of the City Hall / Auditorium parking lot.
	Parking G.O. Bonds	125,000	Reconstruction of the surface parking lot adjacent to the Library.
		\$420,000	2021 Subtotal
2025	Other Tax Increment Financing	265,000	Penacook TIF portion.
	Parking G.O. Bonds	50,000	Reconstruct the Canal Street Parking Lot.
		\$315,000	2025 Subtotal
2026	Parking G.O. Bonds	85,000	Reconstruct the McKee Square Parking Lot.
	Parking G.O. Bonds	85,000	Mill & pave Storrs Street Lot (beneath Loudon Road overpass).
		\$170,000	2026 Subtotal
	TOTAL	\$1,210,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: POLICE - OPERATIONS #598-TASER Replacement

I. PROJECT TYPE: Public Safety

II. LOCATION:

III. PROJECT OBJECTIVES AND BACKGROUND

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

DESCRIPTION: TASER unit replacement.

SERVICE IMPACT: In 2008, the Police Department acquired 24 Taser units. As of FY2018, these units will be at the end of their useful life. In addition, the Department desires to acquire additional units in the future so each patrolman will have a dedicated Taser assigned to them.

IMPACT IF NOT FUNDED: The Taser model currently in use by the Police Department is being phased out. There is no support or replacements parts that will be available. Unreliable Tasers could jeopardize the safety of officers and the general public.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	45,000	40,000	0	0	0	0	0	0	0	0	85,000
	Total	45,000	40,000	0	0	0	0	0	0	0	0	85,000

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	45,000	Phase 1 of 2. Replace 24 TASERS which were put into service in 2008.
		\$45,000	2018 Subtotal

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT:	POLICE - OPERATIONS	#598-TASER Replacement	
2019	General G.O. Bonds	40,000	Phase 2 of 2. Purchase 20 additional TASER units.
		<u>\$40,000</u>	2019 Subtotal
	TOTAL	<u>\$85,000</u>	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #599-Zoning Update

I. PROJECT TYPE: Community Planning/Implementation

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

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

DESCRIPTION: The current trend in Planning is to shift the regulatory focus away from land use based zoning to form-based zoning, the intent of which is to enhance the appearance and character of the community rather than tightly control land uses. The purpose of this project is to utilize these methods to update Concord's Zoning Ordinance to a Form Based Code template, create new Form Based Code Districts, particularly for downtown Concord and Penacook, and minimize the need for zoning variances in both commercial and residential districts. The project will include community outreach, as well as planning for future form based districts.

SERVICE IMPACT: The revision of the ordinance is intended to improve the development review and approval process, encourage redevelopment, and minimize the need for variances for both residential and nonresidential property owners. It should also simplify and enhance the ordinance by making it a more engaging and user friendly document.

IMPACT IF NOT FUNDED: Implementing solutions to improve the development process and potentially spur redevelopment will be delayed. In addition, an incremental piecemeal approach for updating the ordinances and regulations, which would likely prove to be more expensive in the long-term, would need to be pursued.

IV PREVIOUS FISCAL YEAR AUTHORIZED:

PREVIOUS AMOUNT:

V. PROJECT USEFUL LIFE (In Years): 20 Expected Bond Term (in Years) 1

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	100,000	100,000	0	0	0	0	0	0	0	0	200,000
General	Capital Transfer	0	0	0	0	60,000	0	0	0	0	0	60,000
	Total	100,000	100,000	0	0	60,000	0	0	0	0	0	260,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #599-Zoning Update

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2018	General G.O. Bonds	100,000	Phase 1 of 2. Zoning Ordinance update (creation of a Form Based Code). Focus on Downtown Concord and Penacook Village.
		\$100,000	2018 Subtotal
2019	General G.O. Bonds	100,000	Phase 2 of 2. Zoning Ordinance update (creation of a Form Based Code). Focus on Downtown Concord and Penacook Village.
		\$100,000	2019 Subtotal
2022	General Capital Transfer	60,000	Potential expansion of Form Based Code Zoning Regulations to the Heights Commercial District, Opportunity Corridor, as well as other residential and commercial districts pending the outcome of Form Based Code amendments undertake during FY2018/2019.
		\$60,000	2022 Subtotal
TOTAL		\$260,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #601-Design Guidelines Update

I. PROJECT TYPE: Community Planning/Implementation

II. LOCATION: City Wide

III. PROJECT OBJECTIVES AND BACKGROUND

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

DESCRIPTION: Architectural Design Review is required by the Planning Board as part of major site plan applications. The City's current Architectural Design Guidelines were adopted in 1990 and are very outdated. The Architectural Design Review Committee and Planning Board currently have no definitive guide for reviewing applications, other than subjective determinations of neighborhood or corridor compatibility. The updated guidelines should provide more objective criteria for granting approvals.

SERVICE IMPACT: Updated Design Review Guidelines will provide better direction for applicants with regard to layout, design, and architectural features, for proposed developments thereby improving consistency and predictability for applicants with regard to the City's development permitting processes.

IMPACT IF NOT FUNDED: The design review and approval process will continue to be characterized by more subjective and potentially inconsistent determinations.

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	Capital Transfer	0	0	0	0	30,000	0	0	0	0	0	30,000
	Total	0	0	0	0	30,000	0	0	0	0	0	30,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-COMMUNITY PLANNING #601-Design Guidelines Update

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2022	General Capital Transfer	30,000	Architectural Design Review Guidelines update.
		<u>\$30,000</u>	2022 Subtotal
	TOTAL	<u>\$30,000</u>	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #602-Iron Works Road Bridge Replacement Project

I. PROJECT TYPE: Bridges

II. LOCATION: Iron Works Road over Turkey River

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 replace the existing bridge on Iron Works Road over the Turkey River. The present deck, superstructure, and substructure are in poor to serious condition due to a number of structurally deficient components. This bridge is municipally owned and is eligible for State Municipal Bridge Aid Program funds (80% State, 20% Local).

SERVICE IMPACT: Continue use for public travel. Replacement bridge to meet all current standards.

IMPACT IF NOT FUNDED: If the bridge is not repaired / replaced, it could become subject to load restrictions or closure.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2017 PREVIOUS AMOUNT:

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	400,000	0	400,000
Other	State	0	0	0	0	0	0	0	0	1,600,000	0	1,600,000
	Total	0	0	0	0	0	0	0	0	2,000,000	0	2,000,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #602-Iron Works Road Bridge Replacement Project

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2026	Other State	1,600,000	Design and construction of new bridge. State share (80%) of total project cost.
	General G.O. Bonds	400,000	City share (20%) of total project cost.
		\$2,000,000	2026 Subtotal
	TOTAL	\$2,000,000	

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #603-Washington Street Bridge Replacement Project

I. PROJECT TYPE: Bridges

II. LOCATION: Washington Street (P) over the Canal Inlet

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="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="H"/> Timeliness	
	<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 bridge on Washington Street in Penacook Village over the Canal Inlet at the Contoocook River. The present deck, superstructure, and substructure are in poor to serious condition due to a number of structurally deficient components. This bridge is municipally owned and is eligible for State Municipal Bridge Aid Program funds (80% State, 20% Local).

SERVICE IMPACT: Continue use for public travel. Replacement bridge to meet all current standards.

IMPACT IF NOT FUNDED: If the bridge is not repaired / replaced, it could become subject to load restrictions or closure.

IV PREVIOUS FISCAL YEAR AUTHORIZED: 2017 PREVIOUS AMOUNT:

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

VI. PROJECT FUND SUMMARY

Fund	Type	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Ten Years
General	G.O. Bonds	0	0	0	0	0	0	0	0	0	400,000	400,000
Other	State	0	0	0	0	0	0	0	0	0	1,600,000	1,600,000
	Total	0	0	0	0	0	0	0	0	0	2,000,000	2,000,000

**2018-2027
CAPITAL IMPROVEMENT
PROJECT DETAIL**

PROJECT: CD-ENGINEERING SERVICES #603-Washington Street Bridge Replacement Project

VII. PROJECT FUND DETAIL

Fiscal Year	Fund Type	Amount	Action
2027	Other State	1,600,000	Design and construction of new bridge. State share (80%) of total project cost.
	General G.O. Bonds	400,000	City share (20%) of total project cost.
		\$2,000,000	2027 Subtotal
	TOTAL	\$2,000,000	