



Finance Committee Agenda

City of Newton In City Council

Monday, February 13, 2023

The Finance Committee will hold this meeting as a virtual meeting on Monday, February 13, 2023, at 7:00 pm. To view this meeting using Zoom use this link: <https://us02web.zoom.us/j/87021724367> or call 1-646-558-8656 and use the following Meeting ID: 870 2172 4367

Items scheduled for discussion:

#54-23 Acceptance of \$2,677 from the Executive Office of Public Safety and Security Senior SAFE Grant.

HER HONOR THE MAYOR requesting authorization to accept and expend the sum of two thousand six hundred and seventy seven dollars (\$2,677) in grant funding from the Executive Office of Public Safety for a Senior SAFE Grant that has been awarded to the Fire Department to purchase smoke and carbon monoxide detectors for Newton's seniors.

#53-23 Acceptance of \$25,600 from a Massachusetts Emergency Management Association Emergency Preparedness Grant

HER HONOR THE MAYOR requesting authorization to accept and expend the sum of twenty-five thousand six hundred dollars (\$25,600) in grant funding from a Massachusetts Emergency Management Association (MEMA) Emergency Management Preparedness Grant (EMPG) that has been awarded to the Fire Department for technology and protective gear.

#569-22 Acceptance of \$10,610.01 from Audrey M. Cooper Estate

HER HONOR THE MAYOR requesting authorization to accept and expend the sum of ten thousand six hundred ten dollars and one cent (\$10,601.01) bequest from the estate of Audrey M. Cooper for the purpose of supporting the programs and services of the Newton Senior Center.

Referred to Public Facilities and Finance Committees

#58-23 Appropriate \$280,000 to Complete Phase 1 of the City's Phosphorus Control Plan

HER HONOR THE MAYOR requesting authorization to appropriate and expend one hundred sixty thousand dollars (\$160,000) from Stormwater- Full-time Wages Acct # 62A40101-511002 and one hundred twenty thousand dollars (\$120,000) from Stormwater – Drainage System Acct # 62A40101 -586004 for a total of two hundred eighty

The location of this meeting is accessible and reasonable accommodations will be provided to persons with disabilities who require assistance. If you need a reasonable accommodation, please contact the city of Newton's ADA Coordinator, Jini Fairley, at least two business days in advance of the meeting: jfairley@newtonma.gov or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.

thousand dollars (\$280,000) to cover the completion of Phase 1 of the City's Phosphorus Control Plan.

Public Facilities Approved 8-0 on 2-8-23

#52-23 Reappointment of James Shaughnessy to the Board of Assessors

HER HONOR THE MAYOR reappointing James Shaughnessy, 1000 Commonwealth Avenue, Newton 02459 as a member of the Board of Assessors for a term of office to expire February 1, 2026. (60 days: 3/31/23)

#55-23 Appropriate \$1,500 from Handicapped Parking Fines for Me2/ Orchestra Concert

HER HONOR THE MAYOR requesting authorization to appropriate and expend the sum of one thousand five hundred dollars (\$1,500) from Handicapped Parking Fines to Law Department Grants to engage the Me2/ Orchestra to give a concert to the Newton community.

Respectfully submitted,

Rebecca Walker Grossman, Chair



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

Telephone
(617) 552-2300
#54623
Telefax
(617) 796-1113
TDD
(617) 796-1089
E-mail
rfuller@newtonma.gov

January 30, 2023

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to accept and expend a grant in the amount of \$2,677 from the Executive Office of Public Safety and Security for a Senior SAFE Grant that has been awarded to the Fire Department.

These funds will be used to purchase smoke and carbon monoxide detectors for Newton's seniors.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

RECEIVED
2023 JAN 30 PM 4:41

CITY CLERK
NEWTON, MA. 02459



Greg Gentile
Chief

CITY OF NEWTON, MASSACHUSETTS
FIRE DEPARTMENT HEADQUARTERS

1164 Centre Street, Newton Center, MA 02459-1584
Chief: (617) 796-2210 Fire Prevention: (617) 796-2230
FAX: (617) 796-2211 EMERGENCY: 911



Ruthanne Fuller
Mayor

January 3, 2023

Maureen Lemieux
Chief Financial Officer
City of Newton
1000 Commonwealth Ave
Newton, MA 02459

Maureen,

I respectfully request to docket funding of \$2,677.00 from the Executive Office of Public Safety and Security for a Senior SAFE grant that we were awarded.

The grant funding awarded is going to be used to purchase smoke and CO detectors for Newton's senior citizens.

The Grant is a reimbursement grant; therefore, we respectfully request authorization to expend the grant and when refunded to replenish our account of expenditure.

Thank you for your consideration to this request.

Respectfully,

Greg Gentile
Chief of Department

A handwritten signature in black ink, appearing to read "Greg Gentile". The signature is written over the printed name and title.



OFFICE OF THE GOVERNOR
COMMONWEALTH OF MASSACHUSETTS
STATE HOUSE • BOSTON, MA 02133
(617)725-4000

CHARLES D. BAKER
GOVERNOR

KARYN E. POLITO
LIEUTENANT GOVERNOR

December 27, 2022

Chief Gino P. Lucchetti
Newton Fire Department
1164 Centre Street
Newton, MA 0245902459

Dear Chief Lucchetti:

Congratulations! We are pleased to inform you that the Newton Fire Department has been awarded 0 for Student Awareness of Fire Education (S.A.F.E.) and \$2,677 for Senior SAFE grants. We look forward to working with you and your community on this public fire and life safety initiative.

Additional correspondence, including all the necessary documents needed to execute this award will be provided by the Executive Office of Public Safety and Security, Department of Fire Services within the next two weeks.

Feel free to contact the Public Education Unit at (978) 567-3381 if you have any questions.

Sincerely,

Handwritten signature of Charles D. Baker in cursive.

Governor Charles D. Baker

Handwritten signature of Karyn E. Polito in cursive.

Lt. Governor Karyn E. Polito

CITY OF NEWTON

IN CITY COUNCIL

DRAFT

ORDERED:

That, in accordance with the recommendation of the Finance Committee through its Chair Rebecca Walker Grossman authorization to accept and expend the sum of two thousand six hundred and seventy seven dollars (\$2,677) in grant funding from the Executive Office of Public Safety for a Senior SAFE Grant that has been awarded to the Fire Department to purchase smoke and carbon monoxide detectors for Newton's seniors be and is hereby approved.

Under Suspension of Rules
Readings Waived and Approved
DRAFT

(SGD) CAROL MOORE
City Clerk

(SGD) RUTHANNE FULLER
Mayor

Date: _____



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

#53-23

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(617) 796-1100

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(617) 796-1089

E-mail
rfuller@newtonma.gov

January 30, 2023

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to accept and expend \$25,600 from a Massachusetts Emergency Management Association (MEMA) Emergency Management Preparedness Grant (EMPG). This grant to the Newton Fire Department will be used for technology and protective gear.

Details regarding the intended use of these funds are attached in a letter from Chief Gentile.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

RECEIVED

2023 JAN 30 PM 4:41

CITY CLERK
NEWTON, MA. 02459



Gregory J. Gentile
Chief

CITY OF NEWTON, MASSACHUSETTS
FIRE DEPARTMENT HEADQUARTERS
1164 Centre Street, Newton Center, MA 02459-1584
Chief: (617) 796-2210 Fire Prevention: (617) 796-2230
FAX: (617) 796-2211 EMERGENCY: 911

#53-23



Ruthanne Fuller
Mayor

January 30, 2023

Maureen Lemieux
Chief Financial Officer
City of Newton
1000 Commonwealth Ave
Newton, MA 02459

Maureen,

I respectfully request to docket funding of \$25,600.00 from Massachusetts Emergency Management Agency (MEMA) Emergency Management Preparedness Grant (EMPG)

The funding is going to be used to purchase ipads for use with ARC GIS data collection during storms & pre planning. Purchase laptop computers for EMD and support staff to be able to work in multiple location during emergency events. Purchase teleconferencing equipment for EOC breakout room/work area. Utilize the funding to pay for recurring costs related to last year's internet connection that was set up specifically for the EOC. Utilize funding to secure ballistic protective gear in the event of an active shooter/hostile event response.

The Grant is a reimbursement grant; therefore, we would respectfully request authorization to expend the grant and when refunded by MEMA to replenish our account of expenditure.

Thank you for your consideration to this request.

Respectfully,

Greg Gentile
Chief of Department

A handwritten signature in black ink, appearing to be "Greg Gentile", written over the typed name and title.

CITY OF NEWTON

IN CITY COUNCIL

DRAFT

ORDERED:

That, in accordance with the recommendation of the Finance Committee through its Chair Rebecca Walker Grossman authorization to accept and expend the sum of twenty-five thousand six hundred dollars (\$25,600) in grant funding from a Massachusetts Emergency Management Association (MEMA) Emergency Management Preparedness Grant (EMPG) that has been awarded to the Fire Department for technology and protective gear be and is hereby approved.

Under Suspension of Rules
Readings Waived and Approved
DRAFT

(SGD) CAROL MOORE
City Clerk

(SGD) RUTHANNE FULLER
Mayor

Date: _____



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

#569-22

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rfuller@newtonma.gov

December 12, 2022

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

I respectfully submit a docket item to your Honorable Council requesting the approval to accept and expend a \$10,610.01 bequest from the estate of Audrey M. Cooper for the purpose of supporting the programs and services of the Newton Senior Center.

Audrey contributed in so many ways to the City of Newton with a long-standing commitment to programs and services for older residents. I am so grateful for the legacy she continues to create.

Thank you for your consideration of this matter.

Sincerely,

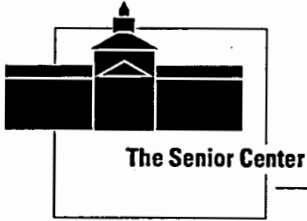
Ruthanne Fuller
Mayor

NEWTON, MA 02459
CITY CLERK

2022 DEC 12 PM 4:30

RECEIVED

Newton Council on Aging



Mayor Ruthanne Fuller
1000 Commonwealth Ave
Newton, MA 02459

November 30, 2022

Dear Mayor Fuller,

I am writing to request that you docket an item with the City Council requesting authorization for the acceptance and expenditure a bequest from Audrey M. Cooper's Estate in the amount of \$10,610.01 for the purpose of supporting the programs and services of the Newton Senior Center.

You are well aware of Audrey's contributions to the city. It is an honor to continue to get her support in this way.

Thank you for your attention to this matter. Please let me know if you have any questions.



Jayne Colino
Director, Department of Senior Services



CITY OF NEWTON

IN CITY COUNCIL

DRAFT

ORDERED:

That, in accordance with the recommendation of the Finance Committee through its Chair Rebecca Walker Grossman, the acceptance and authorization to expend a bequest of ten thousand six hundred ten dollars and one cent (\$10,601.10) from the Aubrey M. Cooper Estate to the Newton Senior Center for the purpose of supporting the programs and services of the Newton Senior Center, be and is hereby approved.

Under Suspension of Rules
Readings Waived and Item Approved
DRAFT

(SGD) DAVID A. OLSON
City Clerk

(SGD) Ruthanne Fuller
Mayor

Date: _____



City of Newton, Massachusetts
Office of the Mayor

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RUTHANNE FULLER
MAYOR

RECEIVED
2023 FEB -2 PM 4:42
CITY CLERK
NEWTON, MA, 02459

February 2, 2023

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend the following amounts to cover the completion of Phase 1 of the City's Phosphorus Control Plan. The City of Newton is required to develop a Phase 1 Phosphorus Control Plan (PCP) by June 30, 2023, to comply with the Environmental Protection Agency (EPA) requirements under the Municipal Separate Storm Sewer System (MS4) Permit. The City has entered into an engineering agreement with Woodard & Curran to develop this phosphorus control plan. Further detail is provided in the attached letter from Jim McGonagle, Commissioner of Public Works.

<u>Acct Description</u>	<u>From Acct #</u>	<u>To Acct #</u>	<u>Amount</u>
Stormwater – Full-time Wages	62A40101-511002	62A40101-539300	\$160,000
Stormwater – Drainage System	62A40101-586004	62A40101-539300	\$120,000

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE COMMISSIONER

1000 Commonwealth Avenue
Newton Centre, MA 02459-1449
Ruthanne Fuller-Mayor

January 30, 2023

To: Maureen Lemieux, Chief Financial Officer
Jonathan Yeo, Chief Operating Officer

From: James McGonagle, Commissioner of Public Works
Shawna Sullivan, Deputy Commissioner of Public Works
Thomas Fitzgerald, Utilities Director

Subject: Request to Docket funding in the amount of \$280,000 to complete Phase 1 of the City's Phosphorus Control Plan as required by the Environmental Protection Agency

I respectfully request that the Mayor docket a request with the City Council for an additional \$280,000 to complete the remainder of the tasks included in Phase 1 of the Phosphorus Control Plan. The Department of Public Works is currently working with a consultant as part of the initial contract on the Phase 1 Phosphorus Control Plan.

The City of Newton is required to develop a Phase 1 Phosphorus Control Plan (PCP) by June 30, 2023 to comply with the Environmental Protection Agency (EPA) requirements under the Municipal Separate Storm Sewer System (MS4) Permit. The City is currently entered into an engineering agreement with Woodard & Curran to develop our phosphorus control plan. As anticipated, to complete the plan and required associated tasks, the Department of Public Works is requesting an additional \$280,000 for Woodard & Curran.

The scope of work for the Phosphorus Control Plan is listed below:

- Legal analysis
- Funding analysis
- Phosphorus baseline load updates
- Planned non-structural controls
- Planning of structural controls in the City rights-of-ways
- Operation and maintenance program for structural control measures
- PCP implementation schedule
- PCP estimated implementation costs
- Final Phase 1 Phosphorus Control Plan
- EPA alternate schedule request initiation

Further information and details are available in the attached documents including the December 2022 by the consultant.

Sincerely,

James McGonagle

Commissioner Public Works

Via Electronic Mail

June 20, 2022



Mr. James McGonagle, Commissioner of Public Works
City of Newton
Department of Public Works
1000 Commonwealth Avenue
Newton Center, MA 02459

Re: Proposal for Professional Engineering Services
Phase 1 Phosphorus Control Plan

Dear Mr. McGonagle:

Woodard & Curran, Inc. (Woodard & Curran) is pleased to present our proposal for professional engineering services to continue to assist the City of Newton, Massachusetts (City) with the development of the City's Phosphorus Control Plan (PCP) required by the U.S. Environmental Protection Agency (EPA) under the Municipal Separate Storm Sewer System (MS4) General Permit Appendix F. The preliminary Plan, initiated under prior contract, will be advanced and completed under this scope for submittal to the EPA.

Appendix F of the MS4 General Permit details the requirements of the PCP that includes the following steps to create Phase 1 of a 3-phase plan by the end of the 5-year permit term (June 30, 2023):

- 1-1 Legal Analysis (June 30, 2020)
- 1-2 Funding Source Assessment (June 30, 2021)
- 1-3 Define Scope of PCP (PCP Area) Baseline Phosphorus Load and Phosphorus Reduction Requirement and Allowable Phosphorus Load (June 30, 2022)
- 1-4 Description of Phase 1 Planned Non-structural Controls (June 30, 2023)
- 1-5 Description of Phase 1 Planned Structural Controls (June 30, 2023)
- 1-6 Description of Operation and Maintenance Program for Structural Controls (June 30, 2023)
- 1-7 Phase 1 Implementation Schedule (June 30, 2023)
- 1-8 Estimated cost for Implementing Phase 1 of the PCP (June 30, 2023)
- 1-9 Complete Written Phase 1 PCP (June 30, 2023)

Items 1-1 through 1-4, and 1-9 have been initiated under prior contracts. The PCP scope of services outlined in this proposal will continue to advance and refine items already in progress,

complete the remaining items (1-5 through 1-8), and prepare the final Phase 1 PCP in compliance with the requirements.



SCOPE OF SERVICES

It should be noted that several of these tasks run concurrently and are not necessarily implemented in the order they are presented.

LEGAL AND FUNDING ANALYSES

TASK 1: LEGAL ANALYSIS

A preliminary Legal Analysis was prepared in 2020 to support Phosphorus Control Planning in conjunction with MS4 requirements. Under this task, the preliminary Legal Analysis will be refined and updated to reflect current information, and more importantly to define potential policy or program changes that may be necessary to advance implementation of the PCP. As part of this Task, Woodard & Curran will review new city ordinances, policies, and programs and identify changes to regulatory mechanisms made in support of PCP implementation. Woodard & Curran will also review ordinances, policies, and programs to identify any subsequent changes that may be necessary to support PCP implementation in conjunction with the draft PCP. As part of this Task, W&C will participate in one conference call with City staff to discuss the City's policies, programs, and ordinances. Additional conference calls, if necessary, will be billed under Task 10 Meetings. The Legal Analysis will be prepared in memorandum format and provided to the City for review. One round of City comments will be incorporated prior to inclusion in the PCP.

TASK 2: FUNDING ANALYSIS

As the PCP is advanced, it is anticipated that available funding mechanisms will be revisited in conjunction with development of implementation costs in subsequent tasks. Additionally, funding sources and eligibility requirements are continuously changing and warrant review on an annual basis. The primary funding mechanism for the City's support of MS4 programs is the Stormwater Enterprise Fund. As the PCP is advanced and Planned Controls for Phase 1 Implementation identified, along with costs of implementation, it is anticipated that the City will desire to understand current alternate funding sources for their consideration. Under this Task, Woodard & Curran will perform a funding analysis identifying and documenting funding sources which may be available to assist with implementation of phosphorus reduction controls. It is anticipated that this task will be initiated after preliminary Phase 1 Control planning has been moderately advanced to better inform possible funding mechanisms. W&C's funding team will support development of a financing strategy as part of this Task. Up to three conference calls are included as part of this task; these calls are anticipated to include a discussion of available funding sources, financing strategy and review of the funding analysis. Additional conference calls, if requested, will be performed under Task 10 Meetings. The Funding Analysis will be prepared in memorandum format and provided to the City for review. One round of City comments will be incorporated into the final document, as applicable.

PHASE 1 PHOSPHORUS CONTROL PLANNING

TASK 3: PCP UPDATES OF BASELINE LOAD, REDUCTION REQUIREMENT AND ALLOWABLE LOAD



The EPA assigned a baseline load using 2005 land use and impervious data. Since land use and coverage are continuously changing, development changes from 2005-2022 are required to be accounted for as part of the Phase 1 PCP implementation. Changes in EPA Policy and Guidance regarding baseline load are evolving; however, it is anticipated that the baseline load and associated reduction requirement will need to be recalculated for inclusion in the final PCP. For the purpose of this scope, it is assumed that Woodard & Curran will use available data including 2005 impervious cover, 2016 land use, 2021 aerial imagery from MassGIS and the City of Newton impervious cover GIS dataset. 2005 impervious cover data and the City of Newton impervious cover data will be visually compared against 2021 aerial imagery; substantive changes in impervious will be noted for further assessment and calculation. Additionally, parcels where substantive development or redevelopment are noted will be reviewed against 2016 land use data and changes to land use will be documented. This comparison data will be used to document and calculate baseline load and required load reduction changes from 2005 to 2021. Additional load changes between 2021 and 2022 will be reviewed and calculated based on available City permit records. Under this Task, the data and calculations will be documented and provided to the City. As part of this task Woodard & Curran will prepare for and participate in up to three conference calls with applicable City staff to coordinate baseline load data and present updated load calculations. Additional conference calls, if requested, will be performed under Task 10 Meetings. As coordination with EPA evolves and their guidance is finalized, W&C will coordinate with the City if the scope of this Task needs to be modified.

TASK 4: PHASE 1 PLANNED NON-STRUCTURAL CONTROLS

As part of the preliminary PCP, previously prepared, Woodard & Curran coordinated with the City to understand the City's non-structural stormwater control practices and frequencies to estimate associated phosphorus load reduction resulting from those practices. The EPA may refine allowable credits associated with leaf litter collection which could provide more significant credit. Additionally, as the PCP is advanced, the City may desire to enhance their non-structural stormwater control program. Therefore, under this task, Woodard & Curran will refine the Phase 1 existing and planned non-structural control load reductions based on program practices and frequencies agreed to by the City and allowable credits as defined by EPA. It is understood that the City will provide Woodard & Curran with costs reflective of the non-structural control practices for use in PCP planning and documentation. We anticipate up to two discussions with applicable City staff for concurrence of planned non-structural control practices. Documentation of the refinement to non-structural load reductions will be provided. Additional discussions, if needed, will be billed under Task 10 Meetings.

TASK 5: PHASE 1 PLANNED STRUCTURAL CONTROLS

Task 5-1: City-wide High Level Structural Control Retrofit Analysis

Under this task W&C will perform a high-level City-wide analysis of potential phosphorus reduction credits associated with treatment of all City owned impervious area. It is anticipated that this analysis will be conducted as an early planning task to evaluate if the City can achieve



the load reduction requirements (Permit Year 10, 15 and 20) through their own properties, or identify the need/importance of collaboration with private property owners. This information is anticipated to inform project planning, discussions, and outreach. A brief memorandum of the calculations and findings will be provided. Discussion of the findings is anticipated to occur in conjunction with meetings with the City regarding planned structural controls, a stand-alone conference call is not anticipated to be necessary.

Task 5-2: Planned Structural Controls at City Properties

As part of the preliminary PCP planning, Woodard & Curran identified 11 stormwater BMPs either constructed (9) or planned to be constructed (2) at City owned properties. There are approximately 205 City properties with impervious coverage on-site. We recommend reviewing all City properties containing impervious coverage for potential structural stormwater BMP retrofits. As part of this task W&C will perform a desktop review of up to 205 parcels containing impervious area. The desktop review will include review of available GIS data layers, NRCS soil mapping, existing stormwater infrastructure plans and site plans (if available) and other available information. For the purpose of this scope, it is anticipated that approx. 50% of the properties (up to 100 properties) are found to be suitable for retrofit. The properties anticipated to be suitable for retrofit will be discussed with the City for the City's insight and input, prior to advancing further assessment.

In addition to City owned properties containing impervious coverage, it is anticipated that untreated impervious area discharges to, through or adjacent to City owned properties. Under this task, Woodard & Curran will also review up to 50 City parcels which may contain stormwater discharge from untreated off-site area. These City parcels may be undeveloped (not contain impervious on-site) or may be sites which also contain impervious being reviewed above. It is anticipated that up to 25 City properties (approx. 50%) will be found suitable for retrofit to treat runoff from off-site impervious area. Treatment potential for sites which contain both on-site impervious and untreated discharge from off-site will be reviewed comprehensively, with a single approach planned for the site addressing all viable treatment.

Woodard & Curran will document, in tabular format, possible retrofit locations, associated credit potential, costs, and recommendations for prioritization and next steps. Up to 125 City owned properties will be documented based on suitability for retrofit determined above (including both management of on-site impervious treatment and treatment off off-site impervious). EPA tools (Opti-tool and BATT) will be used to assess credit potential and order of magnitude costs. As part of this task Woodard & Curran will refine, on a unit cost basis, the costs developed using Opti-tool; refinement of costs will be based on our experience with implementation of similar BMPs.

The retrofit table is intended to be used in the final Phase 1 PCP plan. Supplemental site-specific data sheets may be developed, as needed to supplement the tabular data. Structural stormwater retrofit type envisioned for each property is anticipated to vary based on site conditions and engineering judgement; however, W&C will attempt to maximize phosphorus reduction credits.

Documentation of the City property structural retrofit analysis, will be provided to the City, including analysis of both City owned parcels with impervious area as well as undeveloped parcels which experience discharge of untreated off-site impervious. Up to three conference



calls with applicable City staff are included to facilitate and coordinate the analysis of structural controls on City parcels. Additional discussions, if necessary, will be performed under Task 10 Meetings.

Task 5-3: Planned Structural Controls in City Right-of-Ways

The City of Newton has approximately 925 acres of municipal right-of-ways. It is assumed that significantly greater impervious area drains to City owned catch basins via private driveway curb cuts and other private impervious coverage. Structural stormwater retrofits in municipal right-of-ways could provide a significant opportunity for phosphorus reduction. Under this task, Woodard & Curran will perform a desktop analysis of City right-of-ways for BMP retrofits. Desktop analysis will review items including, but not limited to slope, NRCS soil type and parcel data in conjunction with mapped utility infrastructure information. It is anticipated that the analysis will focus on various types of roadways, such as local, collector, and arterial streets. Up to three structural stormwater BMP retrofit systems will be assessed for each road type, with roadway grade considered relative to potentially viable BMPs. Up to 9 viable roadway BMP scenarios may be identified. It is anticipated that a BMP matrix will be developed identifying BMPs based on various roadway conditions. Again, maximization of phosphorus reduction will be prioritized when assessing viable BMPs. Based on this desktop assessment, Woodard & Curran will document, in tabular format, possible retrofit locations, associated credit potential ranges, costs, and recommendations for prioritization and next steps. Again, EPA tools (Opti-tool and BATT) will be used to assess credit potential and order of magnitude costs. Woodard & Curran will refine, on a unit cost basis, the costs developed using Opti-tool; refinement of costs will be based on our experience with implementation of similar BMPs. The retrofit table is intended to be used in the final Phase 1 PCP plan. Supplemental roadway-specific data sheets may be developed, as needed to supplement the tabular data.

Documentation of the City right-of-way structural BMP retrofit analysis, will be provided to the City. Two conference calls with applicable City staff are included to facilitate and coordinate the analysis of structural controls within City right-of-ways. Additional discussions, if necessary, will be performed under Task 10 Meetings.

Task 5-4: City Property Site Visits (Optional Service)

If requested, as an optional service, W&C will perform site visits of properties deemed viable for stormwater retrofits in Task 5-2 above, to confirmation suitability. Properties selected for site visits are anticipated to be based on elements identified during the Task 5-2 assessment such as priority, credit potential, anticipated site constraints/complications, or other factors. Woodard & Curran will coordinate with the City for concurrence prior to initiating site visits. Site visits are anticipated to include both City owned properties containing impervious coverage as well as City properties to which untreated impervious area discharges. It is assumed, for the purpose of this scope, that site visits will be performed for approximately half of the properties deemed suitable for retrofit; up to 75 site visits are included in this task.

Task 5-5: City Property Schematic Plans (Optional Service)

As another optional service, Woodard & Curran, if requested, will prepare schematic level structural stormwater retrofit plans for up to 75 City properties, approximately half of those deemed suitable for retrofit in Task 5-2. It is anticipated that W&C will review the properties



planned for schematic design with the City, for concurrence, prior to advancement of schematic design. Associated phosphorus reduction credit and cost will also be refined for each of the properties where schematic plans are developed. Information prepared as part of this additional service would be included in the final Phase 1 PCP plan.

Task 5-6: City Right-of-Way Site Visits (Optional Service)

As an optional service, if requested by the City W&C will perform field visits to review up to 15 anticipated right-of-ways for suitability of schematic design.

Task 5-7: City Right-of-Way Schematic Plans (Optional Service)

As another additional service, if requested by the City, W&C will prepare schematic BMP retrofit plans for up to 15 right-of-ways. Right-of-ways considered for schematic design will be discussed with the City, for concurrence, prior to advancement of schematic design. Associated anticipated phosphorus reduction credit and costs will also be refined for each of the right-of-ways where schematic plans are developed. Information prepared as part of this additional service would be included in the final Phase 1 PCP plan.

Task 5-8: Data Gap Analysis (Optional Service)

Under this task, as an optional service, if requested by the City, Woodard & Curran will continue to work with the City to identify existing creditable structural stormwater control measures, aka BMPs, and document associated phosphorus credits. It is anticipated that various Special Permit projects, Comprehensive Permit projects and Administrative Site Plan approval projects will continue to be reviewed as part of this task. Woodard & Curran anticipates reviewing most currently available data first, subsequently working back in time to older development projects. Work under this task may also include select review of single family residential BMPs to assess applicability of assigning average per lot credits which may be applied Citywide. It is anticipated that the City will continue to provide W&C with files for review. If requested, W&C will assist the City with data compilation and coordination of City files as part of this task. A budgetary allowance is provided for this task; files and associated credits will continue to be reviewed and updated as available and budget allows. It is understood that a targeted approach is anticipated in an effort to maximize crediting.

Task 5-9: Documentation and Mapping of Existing BMPs (Optional Service)

This task will be performed, if requested by the City, as an optional service. Confirmation and documentation of existing BMPs for crediting will be performed under this Task. We understand that the City Engineering Department performs construction inspections during installation of structural stormwater BMPs and that in many instances photographs and as-built plans are available. However, EPA requires verification and maintenance of existing stormwater BMPs to accept their calculated phosphorus reduction credit. As such, W&C recommends performing targeted site visits to visually observe BMPs and obtain available maintenance and inspection records from owners, if available. This field work will also provide for initial outreach to property owners and maintenance companies regarding the importance of stormwater maintenance. BMP inspections are not included as part of this scope.



During the previously performed data gap analysis, 38 non-residential and 23 residential properties were identified as creditable. As part of this task W&C will perform site visits at up to 50 properties to observe stormwater BMPs. Properties targeted will include non-residential private properties as well as larger residential properties such as assisted living facilities and apartment complexes. Single family residential properties will not be visited as part of this scope. A notification and information sheet will be developed for the City's review. It is anticipated that the City will perform notification, but W&C will coordinate scheduling the visit directly with the property representatives. Documentation of our findings from the site visits, including photographs, GPS field location of BMP, maintenance/inspection records obtained, and field notes (as applicable) will be provided to the City.

Based on discussion with Engineering, it is anticipated that the City GIS department is able to document stormwater BMPs in the City's GIS system, and link BMP locations with applicable permits to identify stormwater features at the location. Under this task, Woodard & Curran will provide a list of BMPs used in phosphorus crediting for the City's incorporation into GIS. It is anticipated that Woodard & Curran will prepare a map/figure documenting locations of credited stormwater BMPs for use in the Phase 1 PCP after the City's GIS database updates. It is understood that W&C will have access to the City's GIS software for map creation. For the purpose of this scope, it is anticipated that a preliminary list will be provided mid-project and a revised final list will be provided after data gap analysis has concluded. Two conference calls to review and discuss the GIS mapping and feature tracking are anticipated to be performed under this task. Additional discussions and coordination of future/on-going GIS data management and mapping may be warranted and will be performed under Task 10.

TASK 6: STRUCTURAL CONTROL OPERATION AND MAINTENANCE PROGRAM

The Phase 1 PCP requires identification and implementation of an operation and maintenance program for structural control measures credited with reducing phosphorus. This task includes work associated with documenting O&M procedures for existing structural BMPs at City properties as well as developing O&M programs for planned structural BMPs at City properties and roadways. Under this task, W&C will also prepare preliminary opinions of probable maintenance costs associated with proposed City structural BMPs. This information will be provided to the City for review and comment and will be used to support other components of the PCP.

As the project anticipates phosphorus reduction credits from private BMPs, documentation of compliance with the O&M performance standards of the general permit for privately owned and maintained BMPs will also be required. Woodard & Curran will coordinate with the City to understand how this private maintenance is currently tracked and to understand the City's preferred approach to document this information in the future, for W&C's incorporation into the Phase 1 PCP. Considerations may include use of City permit software, assigning City staff tracking responsibilities, private property owner fines or stormwater fee credits tied to maintenance records, regulation changes and/or other methods. It is understood that the future tracking processes would also be implemented for City owned/operated systems.

Up to three conference calls with applicable City staff to identify existing procedures for City tracking of private and public maintenance, garner concurrence of O&M procedures to support planned Phase 1 structural controls and discuss future O&M tracking policies and procedures



will be performed under this task. Additional meetings, if necessary, will be performed under Task 10 Meetings.

Additionally, Newton has a significant number of private single family home stormwater BMPs. Woodard & Curran anticipated coordination with EPA under Task 10 Meetings, to garner EPA concurrence on O&M requirements for these systems to be creditable.

PHASE 1 PHOSPHORUS CONTROL IMPLEMENTATION

TASK 7: PHASE 1 PCP IMPLEMENTATION SCHEDULE

An implementation schedule of Phase 1 controls is required to be included in the Plan. Under this Task W&C will develop an implementation schedule based on the controls identified for Phase 1. It should be noted that the City's phosphorus load reduction is significant, and the Phase 1 reduction is anticipated to be difficult to achieve the Phase 1 Year 8 (2026) and Year 10 (2028) requirements. Under this task W&C will review two schedule approaches, one that identifies what is necessary to achieve the required schedule, and one that is anticipated to be a practical representation of achievable schedule based on standard design, bid, build procedures. These schedules will be reviewed and discussed with the City. The approach for material to be presented to EPA in the Phase 1 PCP will be discussed and schedule(s) revised as needed.

TASK 8: PHASE 1 PCP IMPLEMENTATION ESTIMATED COSTS

Estimated costs for Phase 1 implementation will be identified as part of this task. It is anticipated that this task will build off costs developed in conjunction with planned structural controls, non-structural control costs, and O&M program costs. The Phase 1 implementation cost will be developed using planned structural and non-structural controls agreed by the City for incorporation into the plan, in conjunction with other applicable considerations. Similar to the Phase 1 schedule, Phase 1 estimated implementation costs will be assessed based on what is anticipated to be necessary to achieve the Phase 1 reduction as well as what is anticipated to be practical based on typical design, bid, build schedules. The two planning level cost estimates will be provided to the City for discussion prior to inclusion in the Phase 1 PCP. One meeting to review the cost estimates with the City will be performed under this task.

PHASE 1 PHOSPHORUS CONTROL PLAN

TASK 9: FINAL PHASE 1 PHOSPHORUS CONTROL PLAN

Using the information prepared under this scope of work, in conjunction with documents previously prepared, Woodard & Curran will refine and complete the Phase 1 Phosphorus Control Plan for submittal to EPA. As part of this scope, applicable sections of the preliminary PCP will be revised and others advanced. It is also anticipated that Appendices will also be revised and added to support applicable documentation of the report. It should be noted that interim data and memorandums associated with other scope tasks will be prepared and provided to the City. This information will be the basis of the final report. It is not anticipated that as-built plans or other documentation of existing creditable structural BMPs will be required by EPA, simply that record information is available at the City will satisfy EPA. Woodard & Curran will provide a draft of the final report to the City for review and comment. One round



of revisions will be incorporated into the final document. Under this task, W&C will participate in one meeting with the City to discuss the draft report and obtain comment from the City prior to finalization. Additional meetings, if necessary, will be performed under Task 10 Meetings.

MEETINGS, OUTREACH AND COLLABORATION

TASK 10: MEETINGS AND ADDITIONAL SERVICES

Under this task, appropriate Woodard & Curran staff will prepare for and participate in meetings and conference calls with City staff to support advancement of the Phase 1 PCP. Meetings with the City DPW PCP team to review project topics and progress will be billed under this scope; task specific discussions to facilitate the individual tasks will be billed in association with the relevant task. Meetings anticipated with the City DPW PCP team, to be billed under this task include:

- A meeting to review legal and funding (collectively).
- A meeting to discuss non-structural controls.
- A meeting to discuss structural controls on city parcels and roadways.
- A meeting to discuss the Operation and Maintenance program(s).
- A meeting to discuss implementation costs and schedules (collectively).
- A meeting to review the final draft of the PCP.

We will also collaborate with EPA regarding Policies and Guidance, advocating for the City of Newton. This collaboration is anticipated to include baseline load discussions in addition to leaf litter credits, and regional waterbody management opportunities, among other topics.

Under this task, if requested by the City and as budget allows, W&C will also support the City with outreach and workshops. This outreach is anticipated to support both internal City inter-department coordination as well as public-private collaboration. As the City is aware, collaboration and public-private partnerships are anticipated to be vital in achieving the Phase 1 PCP reduction requirements. W&C will prepare for and participate in meetings or workshops to support City outreach. If requested, Woodard & Curran will also prepare presentation materials to support outreach as part of this scope. Materials may include PowerPoint presentations, handouts or other materials to support the City's goals.

ALTERNATE SCHEDULE REQUEST

TASK 11: EPA ALTERNATE SCHEDULE REQUEST INITIATION (Optional Service)

Under this task, Woodard & Curran has allocated a budgetary allowance for initiation of an Alternative Schedule Request. Based on the preliminary PCP, previously prepared, it is anticipated that the required Phase 1 load reduction and schedule will be challenging for the City. Regulatory requirements dictate that the PCP be submitted, prior to a request for an alternate schedule; however, it may be advantageous for the City to advance this scope concurrently with the final Phase 1 PCP. As such, we have included this task for coordination and initiation of an alternative schedule request. Work will not be performed under this task without authorization from the City.



FEE BUDGET

For the Scope of Services listed above, we recommend that you budget between \$695,000 and \$953,000 based on services to be performed. The services described in this proposal will be provided and invoiced monthly on a Time and Materials basis in accordance with our current rate table at the time of service. Monthly invoices will be submitted for the services completed during the previous billing period and will include a summary of services provided during the invoice period. The proposed budget for this scope of services is summarized below:

Task	Scope Description	Scope Budget	Optional Scope Budget
1	Legal Analysis	\$20,000	
2	Funding Analysis	\$20,000	
3	Baseline Load Updates	\$95,000	
4	Planned Non-Structural Controls	\$17,500	
5-1	City Wide High Level Structural Control Retrofit Analysis	\$10,000	
5-2	Planned Structural Controls at City Properties	\$280,000	
5-3	Planned Structural Controls in City Right-of-Ways	\$90,000	
5-4	<i>City Property Site Visits (Optional Service)</i>		\$27,000
5-5	<i>City Property Schematic Plans (Optional Service)</i>		\$95,000
5-6	<i>City Right-of-Way Site Visits (Optional Service)</i>		\$5,500
5-7	<i>City Right-of-Way Schematic Plans (Optional Service)</i>		\$20,000
5-8	<i>Data Gap Analysis (Optional Service)</i>		\$60,000
5-9	<i>Documentation and Mapping of Existing BMPs (Optional Service)</i>		\$40,000
6	Structural Control Operation and Maintenance Program	\$35,000	
7	Phase 1 PCP Implementation Schedule	\$25,000	
8	Phase 1 PCP Estimated Implementation Costs	\$22,500	
9	Phase 1 PCP Plan	\$30,000	
10	Meetings	\$50,000	
11	<i>EPA Alternate Schedule Request Initiation (Optional Service)</i>		\$10,500
Base Scope Task Budget		\$695,000	
Optional Scope Task Budget			\$258,000
Total Scope Budget		\$953,000	

The proposed budget is based on the Scope of Services outlined in this proposal. If the project assumptions used in developing this proposal should change, or services beyond those identified herein are requested, an Amendment would be prepared for the additional services for your review and approval.

SCHEDULE

Woodard & Curran will begin work upon written authorization to proceed. It is anticipated that the project will be completed by June 30, 2023.

TERMS & CONDITIONS

The Terms and Conditions will be per the executed Agreement for Engineering Services between the City of Newton, Massachusetts and Woodard & Curran.

Please review this proposal and if it is acceptable to you, an Agreement for Engineering Services will be prepared for signatures by the City of Newton.

Sincerely,

WOODARD & CURRAN, INC.



A handwritten signature in black ink that reads "David A. White".

David A. White
Sr. Vice President | National Practice Leader

A handwritten signature in black ink that reads "Carol A. Harris".

Carol A. Harris
Vice President | Senior Client Manager

SK

cc: Shawna Sullivan, City of Newton
Zach Henderson, Stephanie Kaiser, Woodard & Curran, Inc.

PN: 0233351.01

MEMORANDUM



TO: Mr. James McGonagle, Commissioner of Public Works
Ms. Shawna Sullivan, Deputy Commissioner of Public Works
Mr. Thomas Fitzgerald, Utilities Director

FROM: Stephanie Kaiser, Carol Harris, Zach Henderson

DATE: November 16, 2022

RE: Newton Phase 1 Phosphorus Control Plan (Calendar Year 2023)

This memorandum is intended to provide an overview of tasks necessary to complete Newton's Phosphorus Control Plan, in compliance with the Phase 1 Phosphorus Control Plan (PCP) requirements and associated June 30, 2023, deadline. The Phase 1 PCP is required by the U.S. Environmental Protection Agency (EPA) under the Municipal Separate Storm Sewer System (MS4) General Permit Appendix F.

The City of Newton has begun phosphorus control planning and has already advanced multiple components of the required Plan elements. The PCP tasks outlined in this memorandum are those necessary to advance or refine items already in progress, complete outstanding items and prepare the final Phase 1 PCP in compliance with the requirements. A general description of these tasks and budgetary estimate are provided in this memorandum for the City of Newton's planning considerations. Below are the tasks which have been identified for completion of the Phase 1 PCP.

Legal Analysis – The preliminary Legal Analysis, previously prepared, shall be refined and updated to reflect current information, and more importantly to define potential policy or program changes that may be necessary to advance implementation of the PCP.

Funding Analysis – The primary funding mechanism for the City's support of MS4 programs is the Stormwater Enterprise Fund. As the PCP is advanced and Planned Controls and their implementation costs identified, it is anticipated that the City may want to consider and understand current alternate funding sources that may be available. Additionally, funding sources and eligibility requirements are continuously changing and warrant review on an annual basis. Therefore, available funding mechanisms will be revisited as the PCP is advanced.

Baseline Load Updates - The EPA assigned a baseline load using 2005 land use and impervious data. Since land use and coverage are continuously changing, development changes from 2005-2022 are required to be accounted for as part of the Phase 1 PCP implementation. Therefore, the baseline load and associated reduction requirements need to be recalculated for inclusion in the final PCP.

Planned Non-Structural Controls - As part of the preliminary PCP, previously prepared, the City's non-structural stormwater control practices and frequencies were evaluated to estimate associated phosphorus load reduction resulting from those practices. It is anticipated that the City may desire to enhance their non-structural stormwater control program due to EPA's refinement of allowable leaf litter credits and other comprehensive phosphorus control planning considerations.



Planning of Structural Controls in City Right-of-Ways - The City of Newton has approximately 925 acres of municipal rights-of-way with additional private impervious area, such as driveways, tributary to the public roads. Structural stormwater retrofits in municipal right-of-ways could provide a significant opportunity for phosphorus reduction and are included to be evaluated for inclusion in the Plan.

Operation & Maintenance Program for Structural Control Measures - The Phase 1 PCP requires identification and implementation of an operation and maintenance program for structural control measures credited with reducing phosphorus. Both O&M program implementation for City owned and managed controls as well as the City's approach to documenting O&M of private controls will be incorporated into the Phase 1 PCP.

Phase 1 PCP Implementation Schedule - An implementation schedule of Phase 1 controls is required to be included in the Plan.

Phase 1 PCP Estimated Implementation Costs – Estimated costs to implement Phase 1 are required to be included in the Plan.

Final Phase 1 Phosphorus Control Plan – The City of Newton's Phase 1 PCP will be prepared based on the preliminary Phase 1 PCP and the additional information gathered through these subsequent tasks for submittal to EPA.

Meetings, Outreach and Collaboration – Advancement and finalization of the Phase 1 PCP will require input and collaboration with the City of Newton. Outreach to support public-private collaboration may also be warranted.

EPA Alternate Schedule Request Initiation – Based on a planning level city-wide analysis previously performed, it is understood that the City cannot achieve the long-term permit requirements without incorporating Private BMPs into the Plan. Theoretically, the City may achieve the required 2028 load reduction solely through management of City property; however, this approach is not anticipated to be feasible based on financial and schedule constraints. Given the likelihood that the city will pursue an alternate schedule request after submittal of the Phase 1 PCP, it is recommended that discussions surrounding the challenges and need for the alternate schedule be initiated with EPA prior to and soon after the submittal of the Phase 1 Plan. A budgetary placeholder to initiate and support discussions with EPA is recommended at this time.

The budget of \$405,500 associated with these tasks is provided for your planning purposes. This includes a budgetary placeholder associated with the EPA Alternate Schedule request initiation task, as noted above, and recommended for inclusion at this time. Tasks, their scopes, and associated budget may be refined as the Phase 1 Phosphorus Control Plan and discussions with EPA continue to evolve.



Newton's Municipal Stormwater (MS4) Permit Program Updates

Presentation to Public Facilities Committee

TODAY'S GOALS

- ✓ Brief stormwater compliance program review
- ✓ Accomplishments to date
- ✓ Clean Charles River Initiative: Phosphorus Control Plan update
- ✓ What's next?



#58-23

Why Are We Here?

- Municipal Separate Storm Sewer (MS4) General Permit reissued by EPA in 2016 and became effective **July 1, 2018**
- This federal Clean Water Act permit requires multi-faceted municipal implementation – Utilities, Planning, Operations, Engineering, GIS-Information Technology, Communications – **It Takes a Community!**
- **Requirements are very challenging** and we need everyone to understand the implications and needs.

Nationwide Stormwater Permitting Programs

- Construction General Permit (CGP):
Runoff from >1 acre soil disturbance
- Industrial Multi-Sector General Permit (MSGP):
Runoff from Industrial Facility per SIC Code
- **Municipal MS4 General Permit**

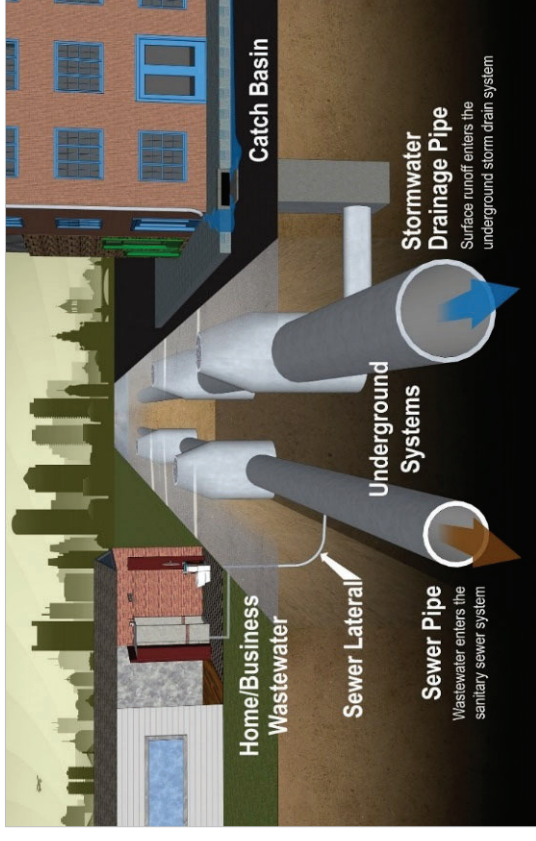


What is an MS4?

A **Municipal Separate Storm Sewer System** is:

- A conveyance or system of conveyances owned by a state, city, town, or other public entity that discharges to waters of the U.S and is:

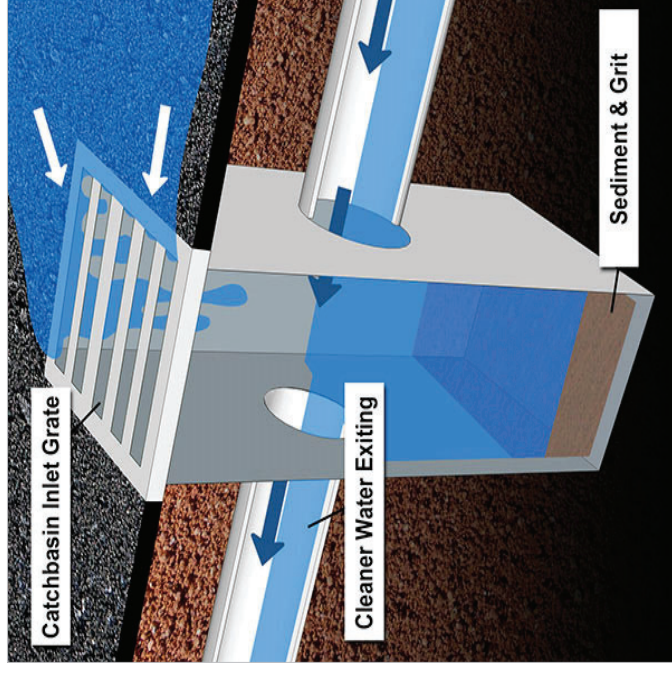
- Designed or used for collecting or conveying stormwater
- Not a combined sewer
- Not part of a publicly-owned treatment works



Newton's MS4

Drainage System Facts:

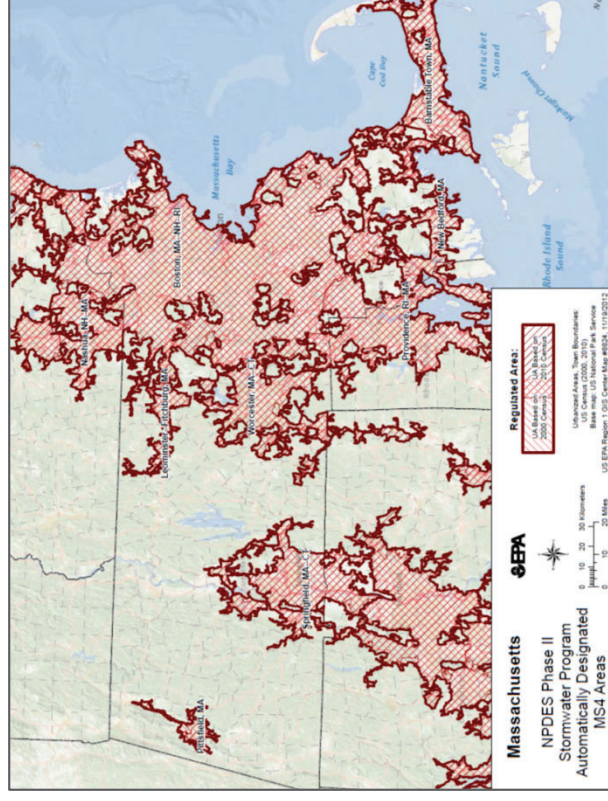
- 320 miles of stormwater drainage pipe
- 12,750 catch basins
- 5,852 of Manholes
- 2 pump stations
- 183 exterior outfalls/interconnections
- 201 Interior outfalls
- 14 miles of streams
- Ditches and Swales as well...



What is the MS4 General Permit?

Clean Water Act requires EPA to regulate any discharges from the MS4 based on 1987 Amendments to the Act

- The MS4 general permit is based on development density and population
- ~260 Municipalities Covered in MA
- In most states, the state administers this permit
 - MA is EPA regulated
- Every five years a new permit is drafted and issued (in theory)
- Each permittee is required to develop a 5-Year Stormwater Management Plan consistent with the general permit
- Currently in "Permit Year 5"



EPA administers NPDES permits in Massachusetts



Municipal Stormwater Compliance

Six Primary Control Measures



1) Public Education



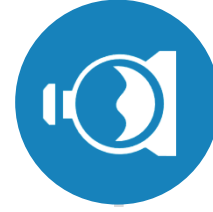
2) Public Involvement



3) Illicit Discharge Detection and Elimination



4) Construction Site Runoff Control



5) Post-Construction Stormwater Management



6) Good Housekeeping and Pollution Prevention

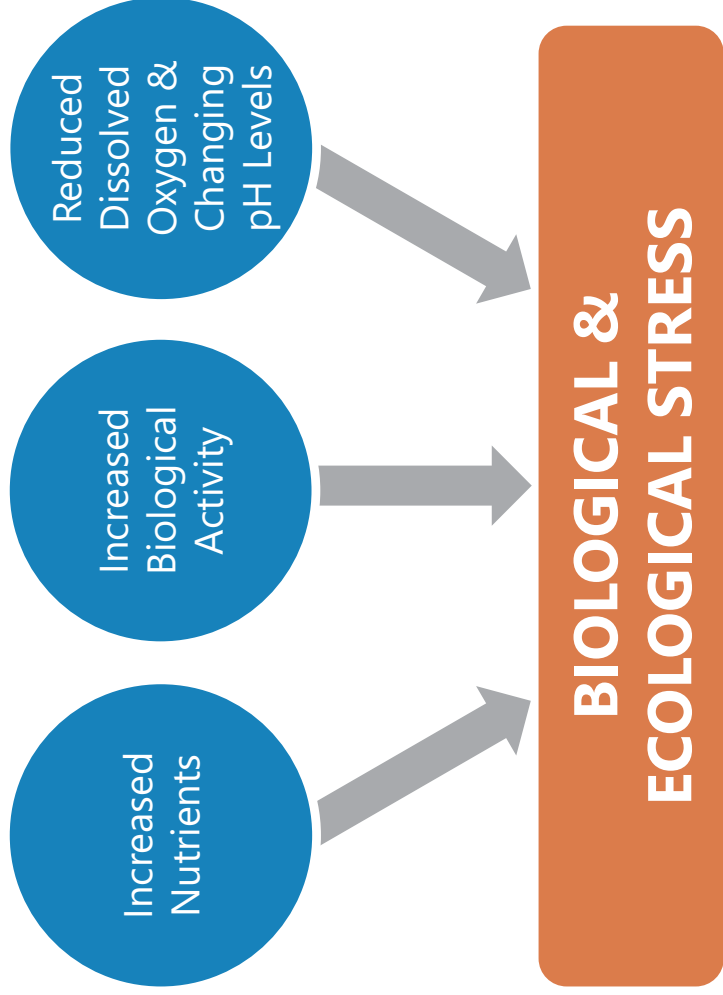


Newton's Accomplishments to Date

MS4 Program Highlights

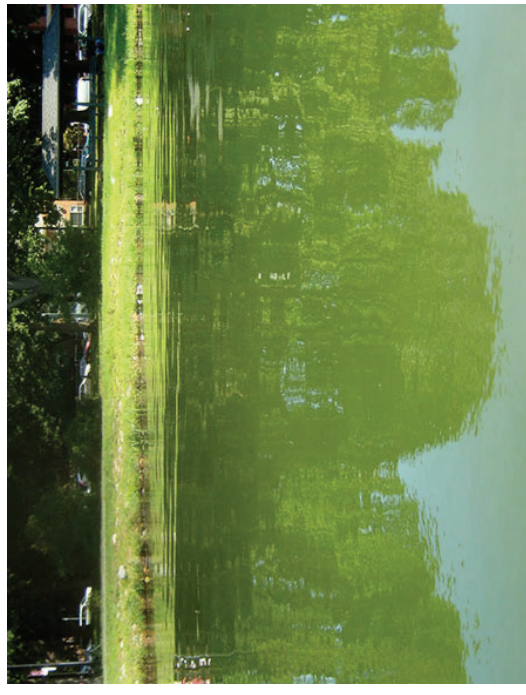
- ✓ On-going social media, Green Cart, stormwater webpage, pet licensing, and paper flier educational materials developed and disseminated.
- ✓ Over 80% of the City's stormwater drainage system investigated for illicit discharges.
- ✓ Hundreds of site plans reviewed annually for compliance with construction erosion control and stormwater control policies.
- ✓ Thousands of construction site inspections annually.
- ✓ Ongoing street sweeping, leaf litter and catchbasin cleaning programs. Over 1500 tons of material swept from streets annually!

Nutrients as a Pollutant



Health Officials Warn Of Blue-Green Algae Bloom in Charles River

August 31, 2016 2:45 PM



Clean Charles River Initiative

- Reduce Phosphorus in discharges through strategic planning and implementation
- 1995: EPA New England launched the Clean Charles initiative.
- The EPA and MassDEP established Total Maximum Daily Load (TMDL) for all discharges
 - 2007, Final TMDL for Nutrients in the Lower Charles River Basin (Lower TMDL)
 - 2011, TMDL for Nutrients in the Upper/Middle Charles River (Upper TMDL)
- TMDL Requirements:
 - Phosphorus WWTF discharge limits for summer/winter at 0.1/0.3 mg/L
 - Stormwater phosphorus reductions are significant!

Medium Density Residential
3,578 kg/yr

High Density Residential
3,876 kg/yr

Commercial / Industrial
4,091 kg/yr

~12,000 kg/yr reduction
from stormwater
sources



Nutrient Load Reduction Requirements

- The MS4 General Permit defines stormwater load reduction targets for individual communities
- 34 regulated communities will be required to meet the Load Reduction Requirement by 20% in the first eight years of the permit term (2026)...**and by 25% in the first ten years (2028)**



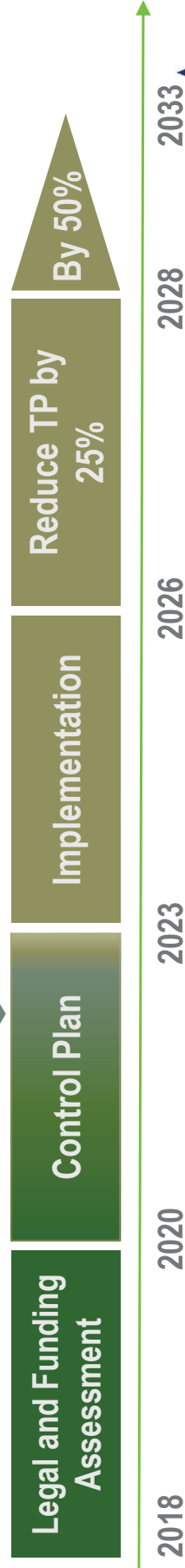
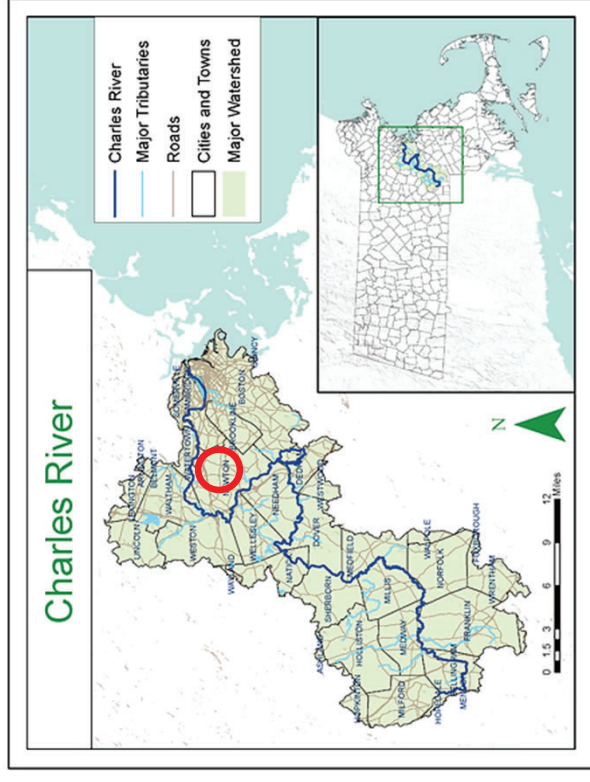
Communities Shown Here for Example Only – 30 others included in discharge requirements



CLEAN WATER IS EVERYBODY'S BUSINESS

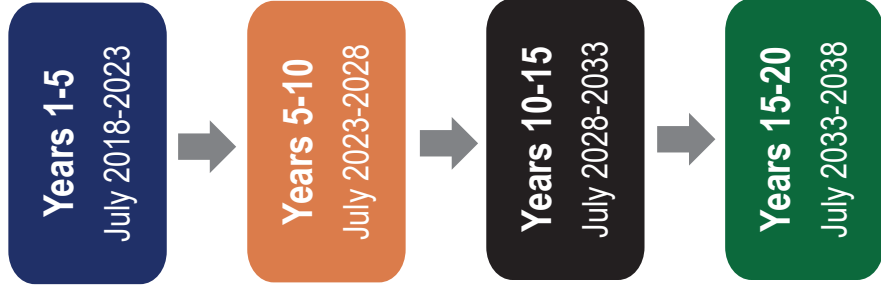
Newton's Phosphorus Control Plan Obligations

- Priority ranking of areas and infrastructure for the implementation of stormwater quality control facilities
- Establish O&M program for those structural controls
- Identify non-structural stormwater controls that will support the reduction of phosphorus loading



Phosphorus Control Planning Schedule

- Developing a multi-phase plan to achieve TMDL goal.
- Reduce Total Phosphorus from stormwater discharges by 61% or 5,214 lbs by 2038 (Phase 1, 2 and 3 PCP).



- Create Phase 1 PCP Plan by **June 2023**

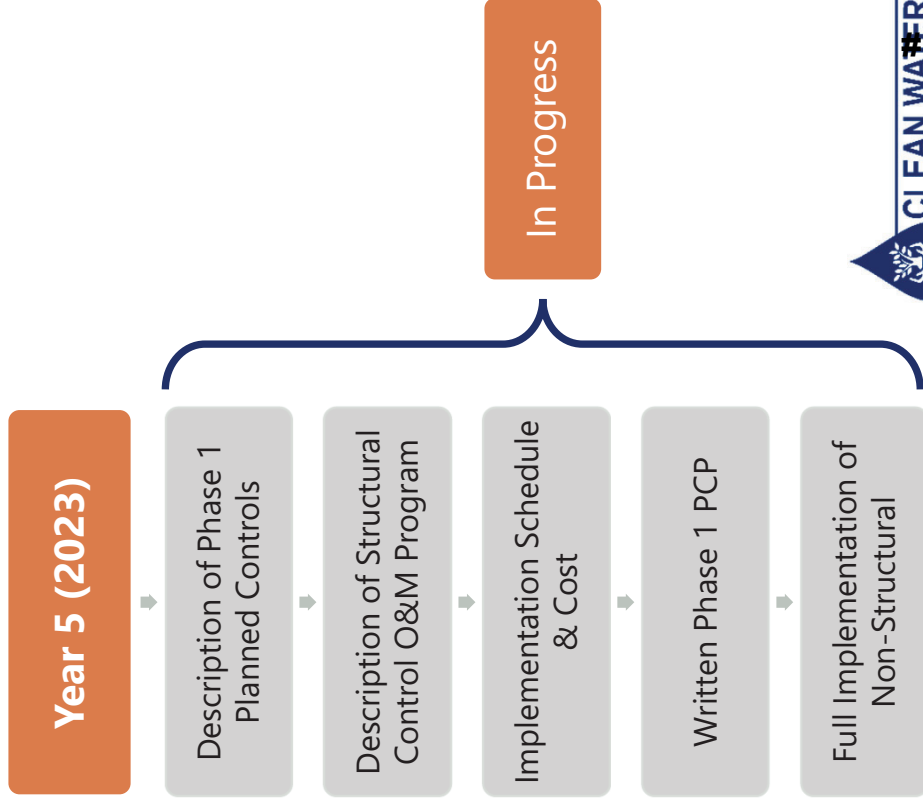
- Implement Phase 1 PCP Plan
- Create Phase 2 PCP Plan

- Implement Phase 2 PCP Plan
- Create Phase 3 PCP Plan



Phosphorus Control Plan Status

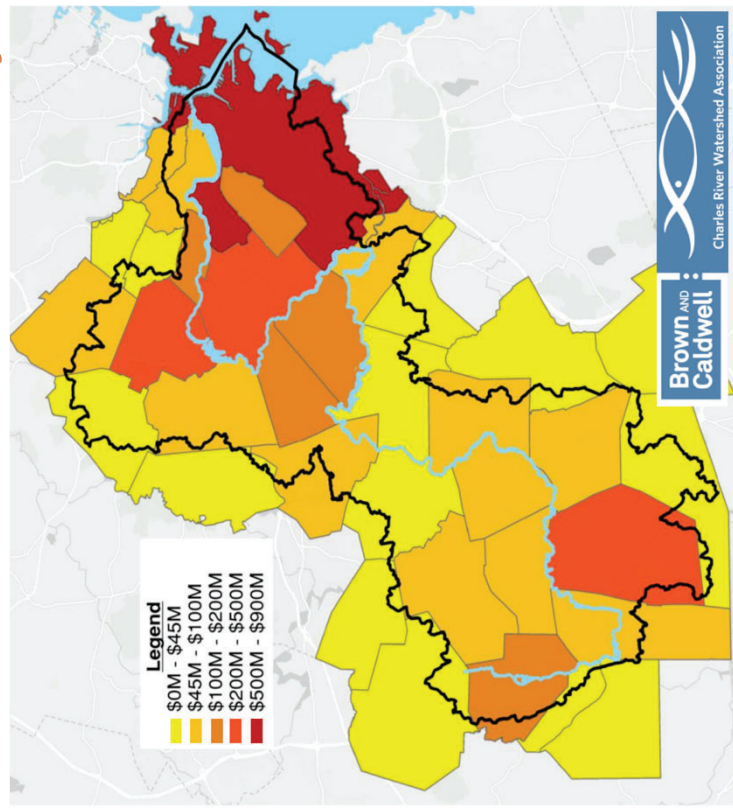
- Currently accounting for anticipated benefits of non-structural controls (street sweeping and leaf litter clean up)
- Identifying potential opportunities to account for existing public and private stormwater controls
- Current projections are that existing “controls” only account for about 1/3 of Permit Year 8 target and 1/4 of Permit Year 10 target



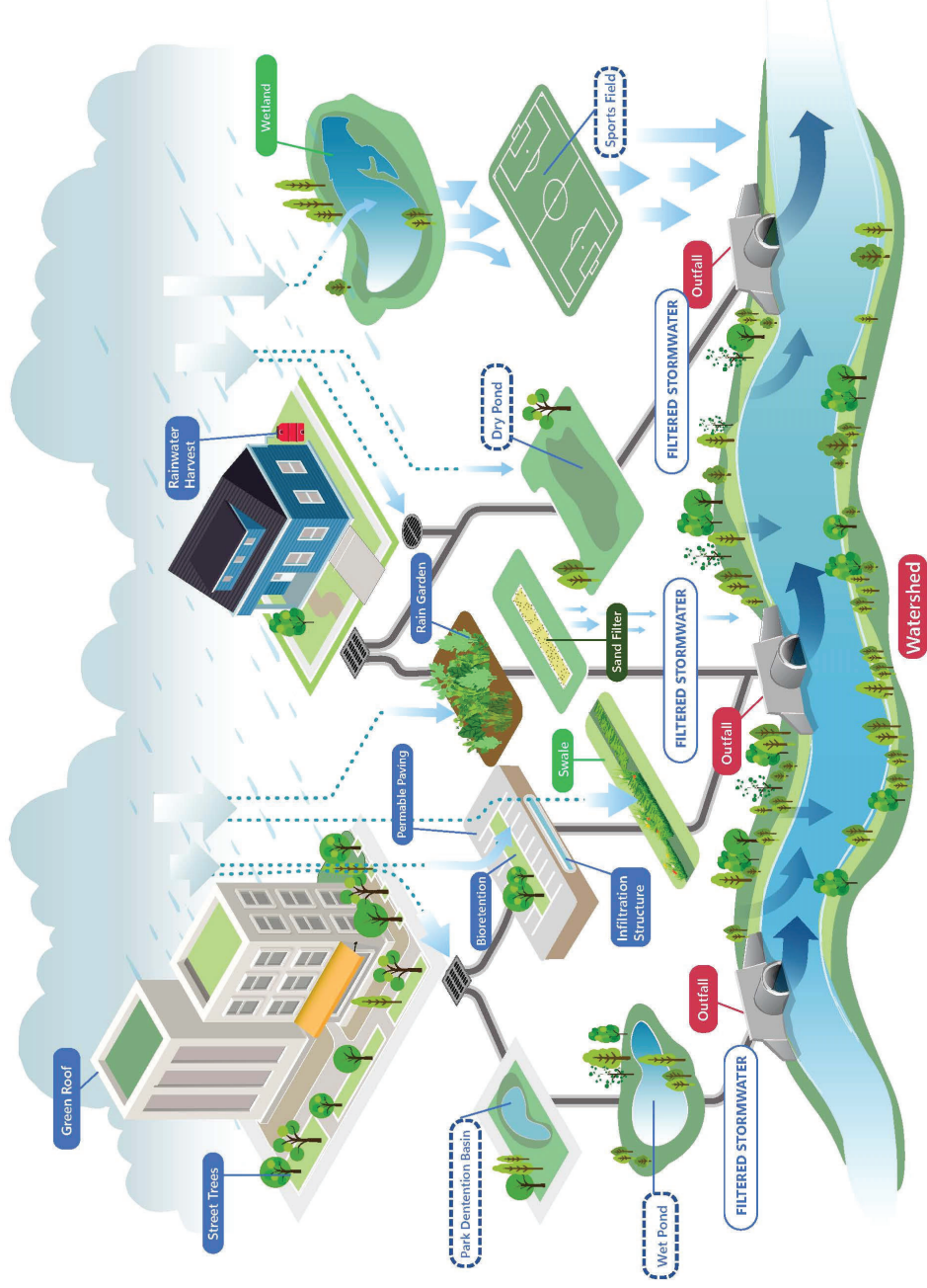
Phosphorus Control Needs?

- About **1,000 lbs of phosphorus** will still need to be targeted for removal through new stormwater control retrofits and non-structural pollution prevention programs on public and private properties to meet Year 10 requirements.
- Close to **4,750 lbs to meet Year 20** requirements.

So...What Does this Mean to the City?



What Does Comprehensive Stormwater Retrofitting Look Like?



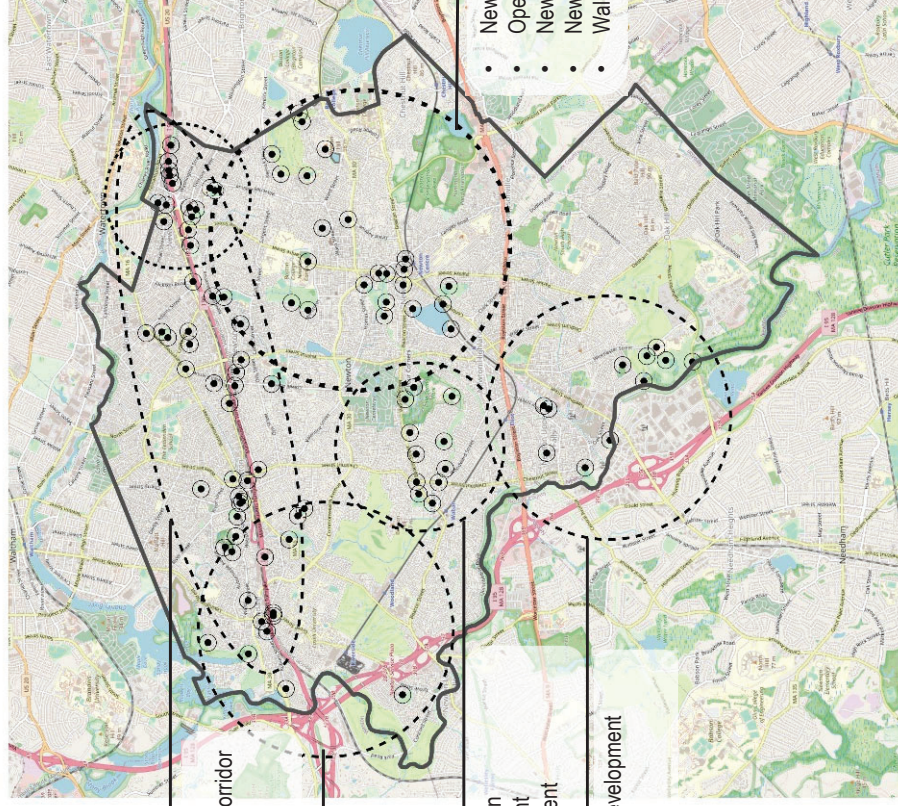
What are the Benefits of Comprehensive Stormwater Retrofitting?

Hydrologic Functions	Runoff Reduction										Peak Flow Reduction			Improved Water Quality			
	Rain Garden	Rainwater Harvesting Residential	Rainwater Harvesting Commercial/Industrial	Green Roof	Permeable Paving	Street Trees	Bio-retention Cell	Infiltration Structure	Vegetated Detention Basin	Wet Pond	Constructed Wetland	Vegetated Swale	Sand Filter	Filter Strip			
Stormwater Quantity Functions	Retention	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
	Infiltration	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
	Detention	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
	Evapotranspiration	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
Stormwater Quality Functions	Sedimentation	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
	Filtration	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
	Removal	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
	Extended Treatment Chemical	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
Community Benefits	Extended Treatment Biological	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
	Supports Wildlife Habitat	+															
	Improves Appearance of Outdoor Spaces	+	+														
	Mitigates Climate Impacts	+	+														
	Improves Air Quality	+															
	Increases Pervious Surface	+															
	Creates Runoff Storage for Alternative Uses	+	+														
	Provides Educational Opportunities	+															
	Extends Open Space	+															
	Creates Comfortable Outdoor Areas [Temp. Control]	+															

What are the Benefits of Comprehensive Stormwater Retrofitting?

Benefit Category	Benefit Description	Peak Flow				Improved Water Quality			
		Constructed Wetland	Vegetated Swale	Sand Filter	Filter Strip	Constructed Wetland	Vegetated Swale	Sand Filter	Filter Strip
Hydrologic Functions	Supports Wildlife Habitat	+				◇	◇	◇	◇
	Improves Appearance of Outdoor Spaces	+				◇	◇	◇	
	Mitigates Climate Impacts	+				◇	◇	◇	◇
	Improves Air Quality	+				◇	◇	◇	
	Increases Pervious Surface	+				◇	◇	◇	◇
	Creates Runoff Storage for Alternative Uses	+				◇	◇	◇	◇
	Provides Educational Opportunities	+				◇	◇	◇	◇
	Extends Open Space	+				◇	◇	◇	◇
	Creates Comfortable Outdoor Areas [Temp. Control]	+				◇	◇	◇	◇
	Community Benefits	+	+	+	+	+	+	+	+
Community Benefits	Supports Wildlife Habitat	+				+	+		
	Improves Appearance of Outdoor Spaces	+				+	+		
	Mitigates Climate Impacts	+				+	+		
	Improves Air Quality	+				+	+		
	Increases Pervious Surface	+				+	+		
	Creates Runoff Storage for Alternative Uses	+				+	+		
	Provides Educational Opportunities	+				+	+		
	Extends Open Space	+				+	+		
	Creates Comfortable Outdoor Areas [Temp. Control]	+				+	+		
	Community Benefits	+	+	+	+	+	+	+	+

Where Are We Looking for Retrofit Opportunities?



- Washington Street Vision Plan
- Newton Business Development Corridor
- California Street Redevelopment
- Climate Adaption Improvements

- Newton Comprehensive Plan
- Riverside Vision Plan
- Needham Street Vision Plan
- Charles River Mill Development

- Four Corners Redevelopment Plan
- Cochituate Aquaduct Management
- Upper Falls Greenway Development

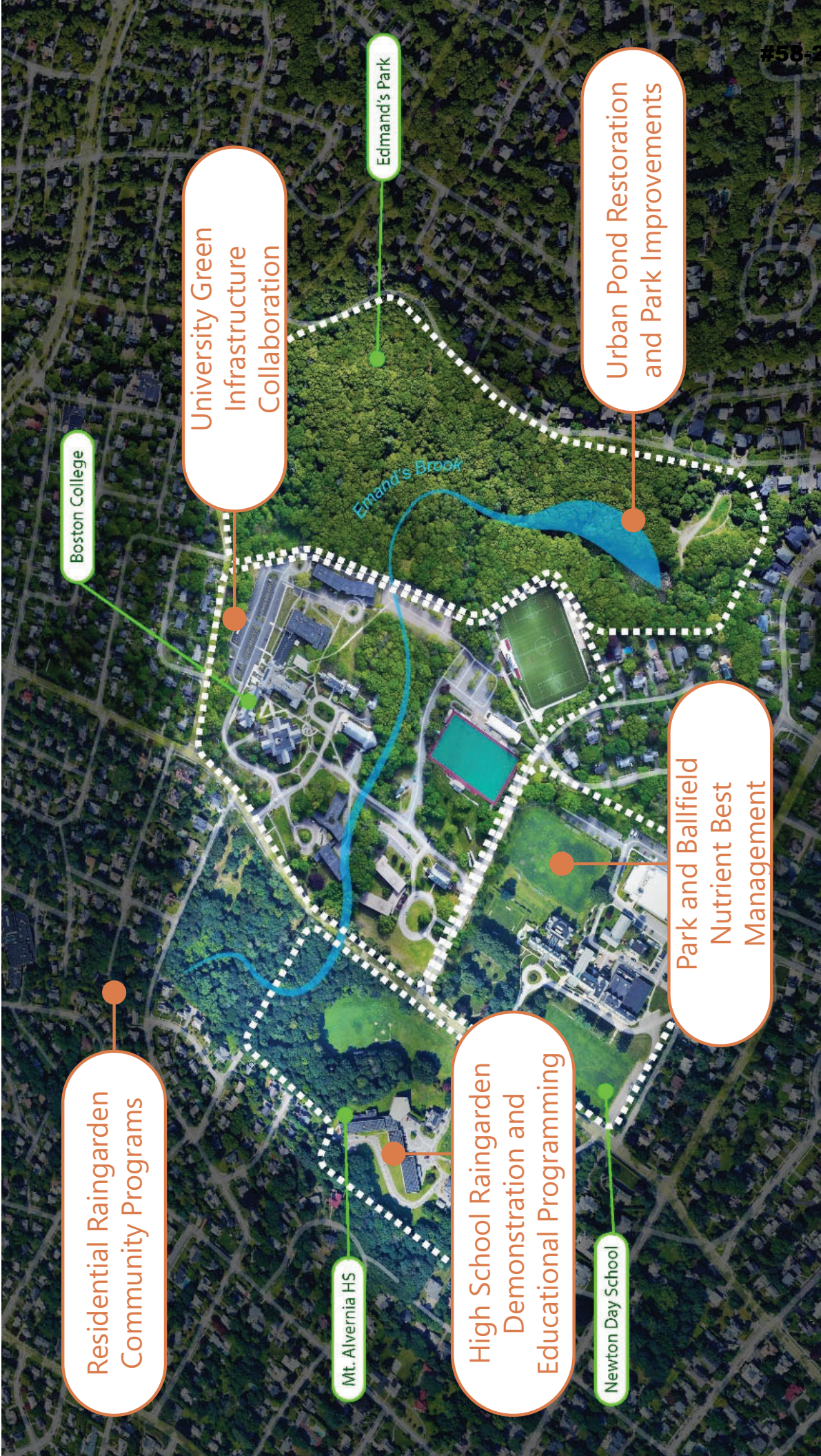
- Wells Ave. & Business Park Redevelopment

- Newton Comprehensive Plan
- Open Space and Recreation Plan
- Newton Centre Redevelopment
- Newton Square Enhancements
- Walnut Street Enhancements

- Municipal Facilities/Properties
 - School Projects
- High Benefit to Cost
- Anticipated and Upcoming Facility Improvements
- Streetscape Improvements
- Alignment with Community Needs and Vision
 - Village Enhancement Projects

Public/Private Partnerships?





Residential Raingarden Community Programs

Mt. Alvernia HS

High School Raingarden Demonstration and Educational Programming

Newton Day School

Park and Ballfield Nutrient Best Management

University Green Infrastructure Collaboration

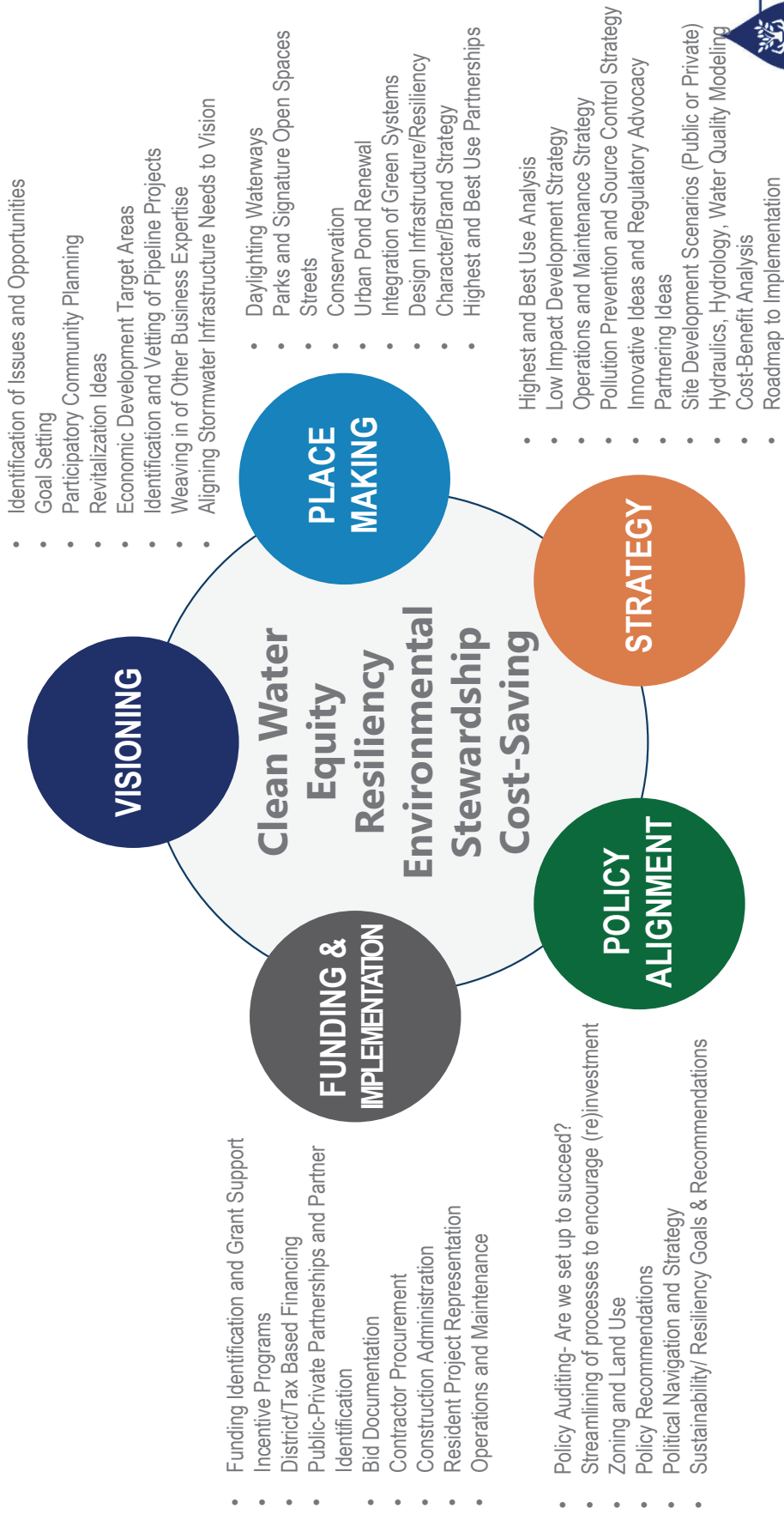
Edmand's Park

Urban Pond Restoration and Park Improvements

Boston College

Edmand's Brook

Creating a Holistic Urban Clean Water Strategy



In Summary

- Excellent progress on most stormwater permit obligations!
- **PCP Phase 1 Completion June 2023**
- **Continued financial support for operations, program and capital investment**
- **Integration of community economic and community development vision with clean water programs** will reduce costs and accelerate progress on Clean Charles Initiatives



Questions / Discussion
THANK YOU!

Newton's Municipal Stormwater (MS4) Permit Program Updates

Presentation to Public Facilities Committee



#58-23

CITY OF NEWTON

IN CITY COUNCIL

DRAFT

ORDERED:

That, in accordance with the recommendation of the Finance Committee through its Chair Rebecca Walker Grossman, to appropriate and expend the sum of one hundred sixty thousand dollars (\$160,000) from Stormwater- Full-time Wages Acct # 62A40101-511002 and one hundred twenty thousand dollars (\$120,000) from Stormwater – Drainage System Acct # 62A40101 -586004 for a total of two hundred eighty thousand dollars (\$280,000) to cover the completion of Phase 1 of the City’s Phosphorus Control Plan.be and is hereby approved as follows:

FROM:	Stormwater – Full Time Wages (62A40101-511002)	\$160,000
	Stormwater – Drainage System (62A40101 -586004)	\$120,000
TO:	Phosphorus Control Plan (62A40101-539300)	\$280,000

Under Suspension of Rules
Readings Waived and Approved
DRAFT

(SGD) CAROL MOORE
City Clerk

(SGD) RUTHANNE FULLER
Mayor

Date: _____



RECEIVED City of Newton, Massachusetts

Office of the Mayor

Ruthanne Fuller
Mayor

2023 JAN 30 PM 2:15

CITY CLERK
NEWTON, MA. 02459

#52-23
Phone
(617) 796-1100
Fax
(617) 796-1113
TDD/TTY
(617) 796-1089
Email
rfuller@newtonma.gov

January 30, 2023

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton, MA 02459

To the Honorable City Councilors:

I am pleased to reappoint James Shaughnessy of 1000 Commonwealth Avenue, Newton 02459 as a member of the Board of Assessors. His term of office shall expire on February 1, 2026 and his appointment is subject to your confirmation.

Thank you for your attention to this matter.

Warmly,

Ruthanne Fuller
Mayor

CITY OF NEWTON

IN CITY COUNCIL

DRAFT

ORDERED:

That in accordance with the recommendation of Her Honor the Mayor and with the confirmation of the Honorable City Council, be it known James Shaughnessy is hereby reappointed to the Board of Assessors for a term to expire February 1, 2026.

Under Suspension Rules
Readings Waived and Approved
DRAFT

(SGD) CAROL MOORE
City Clerk



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

Telephone
#55-23100

Telefax
(617) 796-1113

TDD
(617) 796-1089

E-mail
rfuller@newtonma.gov

January 30, 2023

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

I respectfully submit a docket item to your Honorable Council that has been brought forward by our Commission on Disability requesting authorization to appropriate and expend \$1500.00 from Acct # 5518R114-335518 Handicapped Parking Fines to Acct # 0110851-579700 Law Department Grants to engage the Me2/ Orchestra to give a concert to the Newton community on May 7 at 3:00 p.m., in the Newton North High School Auditorium.

May is Mental Health Awareness month and this event is to promote and support community members living with mental illness. The members of the Me2/ Orchestra have mental illness or are caregivers of family members living with mental illness.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

RECEIVED

2023 JAN 30 PM 4:41

CITY CLERK
NEWTON, MA. 02459



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

Telephone
#55-23
(617) 796-1113

Telefax
(617) 796-1113

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(617) 796-1089

E mail
rfuller@newtonma.gov

February 10, 2023

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

I respectfully request that your Honorable Council amend Docket Item # 55-23 by replacing Acct # 0110851-579700 Law Department Grants with Acct # 0110320-571600 Executive Office Special Events Expense.

As detailed in the docket request, the Me2/ Orchestra will give a concert to the Newton community on May 7, at 3PM, in the Newton North High School Auditorium.

May is Mental Health Awareness month and this event is to promote and support community members living with mental illness. The members of the Me2/ Orchestra have mental illness or are caregivers of family members living with mental illness.

Thank you for your consideration of this matter.

Sincerely,

A handwritten signature in blue ink that reads "Ruthanne Fuller".

Ruthanne Fuller
Mayor

CITY OF NEWTON, MASSACHUSETTS
Commission On Disability

#55-23



Ruthanne Fuller
Mayor

Barney Heath,
Director, Planning &
Development

Amanda Berman
Director, Housing &
Community Development

Nika Sandal
Planner
Community Development

Members

Eileen Sandberg, Co-Chair
Ima Jonsdottir, Co-Chair
Jane Brown, Treasurer
Lucie Chansky
Petr Chovanec
Lakshmi Kadambi
Nyree Kibarian
Anne Marie Killilea
Nancy Kritzman
Darby Leigh
Sandra Lingley
Barbara Lischinsky
Matt Volpi

Jason Rosenberg
Chairman Emeritus

Advisor

Sergeant Michael B. Wade
Newton Police Department

Staff

Jini Fairley
ADA/Sec 504 Coordinator
617-796-1253

1000 Commonwealth Ave.
Newton, MA 02459
T 617-796-1240
F 617-796-1254
www.newtonma.gov

Date: January 30, 2023

MEMO

To: Mayor Fuller

From: Newton Commission On Disability

Subject: Request to Docket Expenditure of COD Fines Funds to pay for Me2/
Orchestra Concert in the amount of \$1500.00

Dear Mayor Fuller,

Over the course of 3 COD 2022 meetings, July, September, and October, , the Newton Commission On Disability gave their enthusiastic support to engage the Me2/ Orchestra to give a concert on May 7, 2023, at 3PM, in the Newton North High School Auditorium. The fee for this concert is \$1500.00.

The COD members strongly feel this is an appropriate use of the Fines funds, to raise awareness of Mental Health Disabilities in the community. May is Mental Health Awareness month. The COD respectfully requests the docketing of \$ 1500.00 to be appropriated from the COD Fines account to pay the performance fee in order to hold this important community event.

The Fines account where these funds would be drawn from is:

Account # 5500-335518 H-P. Fines-Disability Commission
Type: Receipts Reserved for Appropriation (These funds have to go before the City Council to be appropriated before being used)
Balance: \$38,499.60

Thank you for your consideration of this request.



CITY OF NEWTON

IN CITY COUNCIL

DRAFT

ORDERED:

That, in accordance with the recommendation of the Finance Committee through its Chair Rebecca Walker Grossman, to appropriate and expend the sum of one thousand five hundred dollars (\$1,500) from Handicapped Parking Fines to Law Department Grants to engage the Me2/ Orchestra to give a concert to the Newton community be and is hereby approved as follows:

FROM:	Handicapped Parking Fines (5518R114-335518)	\$1,500
TO:	Executive Office Special Events Expense (0110320-571600)	\$1,500

Under Suspension of Rules
Readings Waived and Approved
DRAFT

(SGD) CAROL MOORE
City Clerk

(SGD) RUTHANNE FULLER
Mayor

Date: _____