



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 2/15/2023 Date of Last Edit: 8/16/2022

Project Title: NPDES Phase II Stormwater Retrofits

Category: Infrastructure

Department: Public Works-Highway Division

Project: ☒ New ☐ Recurring ☐ Resubmission

☒ Multiyear Phase ☐ 2 of ☐ 2

Department Priority

☒ Urgent/Legally Required

☐ Maintain Service

☒ Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

Public Works does not have the resources to fund this within the operating budget.

Recommended Financing

Funding Category	Five-Year Total	Estimated Project Costs by Fiscal Year				
		FY2024	FY2025	FY2026	FY2027	FY2028
Study/Design	\$0					
Land Acquisition	\$0					
Construction	\$165,000	\$165,000				
Equipment/Furnishings	\$0					
Contingency	\$0					
Other	\$0					
TOTAL	\$165,000	\$165,000	\$0	\$0	\$0	\$0

Funding Source(s) Check all that apply

- ☐ Tax Levy
☐ Debt
☐ Enterprise Receipts
☒ Stabilization/Capital
☐ Free Cash
☐ Revolving Fund
☐ CPA
☐ Grant(s) or Other

Grant Amount Requested						
CPA Amount Requested						
Net of CPA and Grants	\$0	\$0	\$0	\$0	\$0	\$0

CPA Purposes(s) Check all that apply

- ☐ Open Space
☐ Recreation
☐ Historical
☐ Housing

Operating Budget Impact

During Project						
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Post-Project Annual	
Post-Project One-time	



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Project Fact Sheet

Project Title: NPDES Phase II Stormwater Retrofits

Initiation Date: 8/16/22

Project Initiator: Benn Sherman

Department: Public Works-Highway Division

Projected Fiscal Year Start/Finish: FY2023-2024

Existing Conditions

Parking lot is in disrepair. NPDES Stormwater permit requires design and installation of example best management practice (BMP) for phosphorous removal and public education. Sites were evaluated through MVP, and we selected Pout Pond parking lot to be the most advantageous project.

Project Description

Construction of the parking area with stormwater BMP's (bioretention areas) to meet the NPDES MS4 permit requirements for stormwater retrofits.

Justification/Benefits

Stormwater improvements to meet the NPDES MS4 permit requirements, parking lot reconstruction, and public education requirements.

Operating Budget Discussion

Operating budget and Chapter 90 funding are not sufficient to cover these improvements.

Estimate Basis

Developed through the MVP project and similar projects.

Time/Project Schedule

Design is anticipated to be complete by 06/30/2023 with construction to follow the following fiscal year.

Alternatives

- 1) Do nothing: Violate NPDES MS4 permit requirements
- 2) Complete improvements: Comply with permit requirements and reduce stormwater/phosphorous loadings to Pout Pond.

Key Assumptions

Refer to the findings attached from the MVP analysis.

Other

None.

Site 6 – Pout Pond Recreational Area

Pavement Reduction, Reconfiguration and Repaving of Parking Area, Bioretention

West River Road, Uxbridge, Massachusetts

Site Description

The Pout Pond Recreational Area is a popular public outdoor recreational area with a beach, playground, snack shack, and small trail around the southern shore of the pond. The parking lot serving the recreational area is aging, with large areas of pavement having broken down completely, allowing vegetation to grow through. The existing lot is unlined, so parking currently takes place haphazardly and primarily around the edges of the large existing lot. Runoff from the parking lot runs toward the beach access and Pout Pond.

Proposed Concept

- Install four bioretention basins in multiple locations, including at the end of the parking lot closest to the beach to capture runoff before it enters the beach area. Consider accessibility needs when designing the bioretention basins.
- Assess current parking needs and reconfigure the parking spaces to most efficiently make use of the available paved area to meet parking needs. Remove any unneeded pavement on the south side of the lot, restoring the pavement removal area with native vegetation, and repave the remaining parking lot.
- Install educational signage to inform visitors about the function and benefits of green stormwater infrastructure and low impact development.p

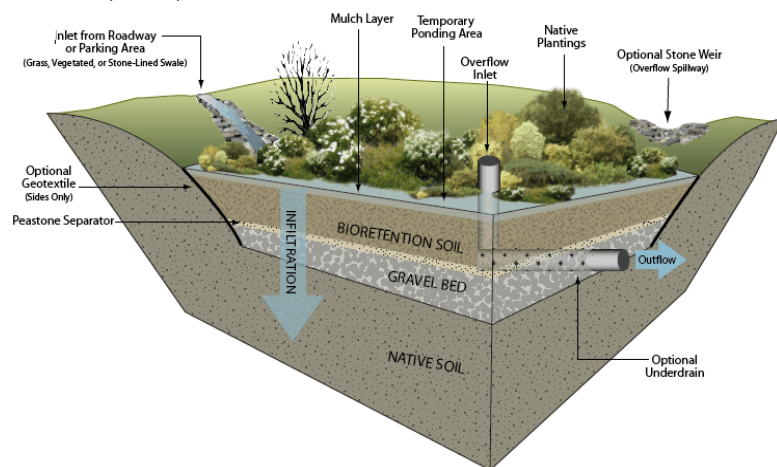


Image 2: Typical diagram of a bioretention basin. Image source: MA Clean Water Toolkit



Image 1: Example of an established bioretention basin with a concrete curb cut and concrete pretreatment structure to remove sediment before runoff enters the planted portion of the basin. Image source: Fuss & O'Neill

Pavement Reduction Concept Summary
 Total Impervious Area Removed: 0.23 acres
 Water Quality Volume Reduction: 1,000 ft³

Bioretention Concept Summary
 Total Impervious Area: 0.55 acres
 Treated Water Quality Volume: 2,380 ft³

Estimated Cost
 Reconfigured and Repaved Parking Lot with
 Bioretention Basins: \$164,000



Image 3: Rendering of a typical bioretention area with plantings. Image source: Johnson County Soil and Water District



POUT POND, UXBRIDGE MA

Disclaimer: This map is not the product of a Professional Land Survey. It was created by Fuss & O'Neill Inc. for General Reference and is not a legally authoritative source. Fuss & O'Neill Inc. makes no warranty, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map. Data Source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services. Imagery © Google.

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