

FY24 Completed Action Grant Summaries

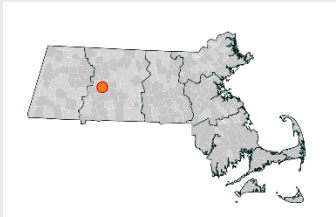


Municipal Vulnerability Preparedness Program
MA Executive Office of Energy and Environmental Affairs

Fort River Watershed Improvements for Flood & Water Quality Resilience



Amherst FY24



Learn More:

- [Amherst Project Website](#)

AWARD \$169,250 **MATCH** \$56,838

PROJECT TYPE Design & Permitting

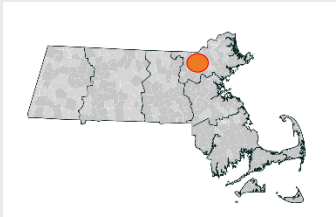
CORE PRINCIPLES DEMONSTRATED Furthering a community identified action to address climate change; Conducting robust community engagement.

DESCRIPTION This project involved the data collection, design and permitting for the replacement of three culverts throughout the Fort River Watershed. The design incorporates predicted 2070 storm flows and provides wildlife passage by meeting the Massachusetts Stream Crossing Standards.



Climate Resilient Shawsheen

Andover FY24 – FY25



Project Website

<https://experience.arcgis.com/experience/7f84651bc78f461680c5dd2990f306d0/page/2021-MVP-Project-Home/>

AWARD

\$81,900

MATCH \$27,300

PROJECT TYPE

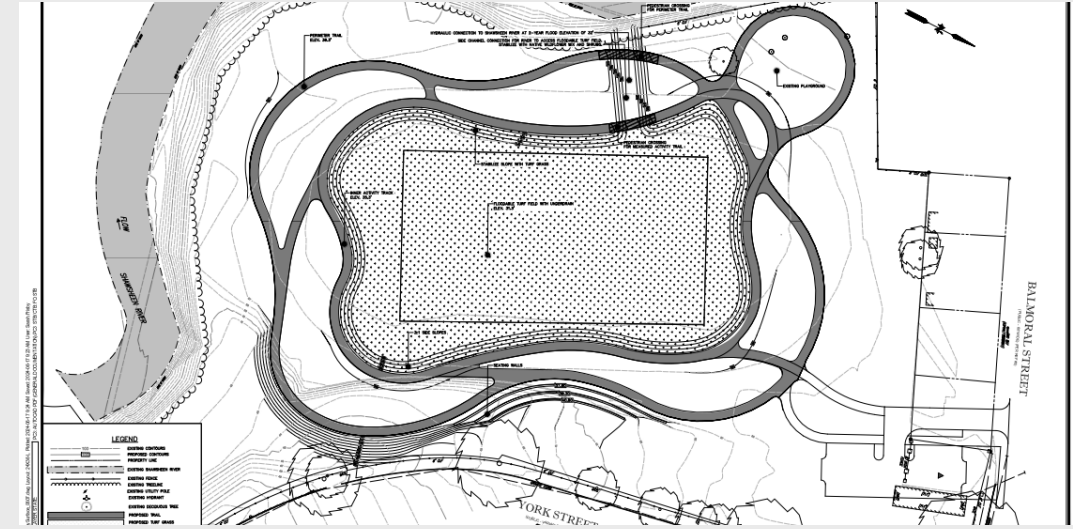
Type 1 (Assessment)

**CORE PRINCIPLES
DEMONSTRATED**

Employing nature-based solutions; Achieving broad and multiple community benefits

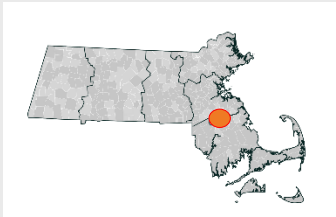
DESCRIPTION

The third phase of the Climate Ready Shawsheen project focuses on delivering a preliminary engineering design of a floodable field and enhancing the prior hydrologic and hydraulic (H&H) models to evaluate the existing and projected future flooding conditions. The work also expands upon prior community engagement work by coordinating outreach events with Andover seniors and food-insecurity organizers.



Resilient D.W. Field Park

Avon FY24



Learn more:

[Town of Avon - Project Website](#)

[Wildlands Trust - The D.W. Field Park Initiative](#)

AWARD

\$1,095,850

MATCH

\$366,025

PROJECT TYPE

Land Acquisition, Planning, and Assessments

**CORE PRINCIPLES
DEMONSTRATED**

Increase equitable outcomes for EJ populations;
Conduct robust community engagement &
partnerships

DESCRIPTION

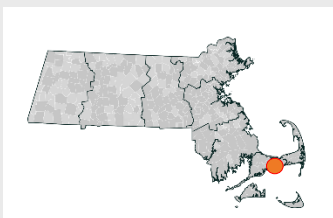
- Purchased 30 acres to improve park resilience and provide equitable recreation opportunities.
- Assessed habitat, drainage, trail resilience opportunities.
- Advanced park parking with EJ community, developing new multi-town and community partnerships.



Hyannis Harbor Master Plan



Barnstable FY24



Learn More

- [Project Website](#)
- [Story Map Link](#)

AWARD

\$199,000

MATCH \$66,887

PROJECT TYPE

Type 1: Planning

**CORE PRINCIPLES
DEMONSTRATED**

Utilizing climate change data for a proactive solution, achieving broad and multiple community benefits

DESCRIPTION

The purpose of this project is to create a Hyannis Harbor Master Plan to better understand the current and future challenges and opportunities of this working and recreational waterfront. The goal is to create a cohesive strategy for the mix of land uses that activate the harbor and to better align the current zoning to make the area more resilient to the threats of climate change.



MVP
Municipal Vulnerability
Preparedness

Future Resilient Field Website



\$22,300

MATCH \$30,987

PROJECT TYPE

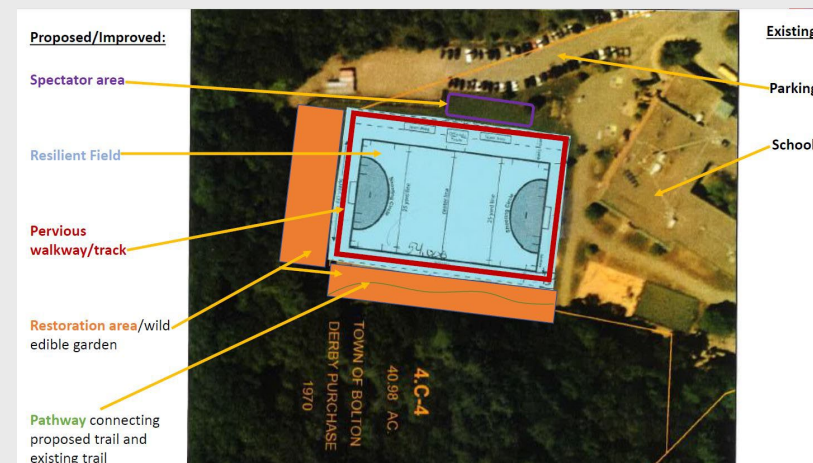
Design

CORE PRINCIPLES DEMONSTRATED

Employing Nature-Based Solutions; Achieving Broad and Multiple Community Benefits

DESCRIPTION

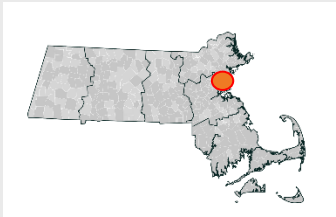
- Worked with a interdisciplinary team made of municipal staff partnered with community representatives.
- Included taking back resource area encroachment from field, re-establishing a vegetated buffer and design native edible garden area to educate and encourage the concept of local sustainable harvest.
- Design Derby Field area to improve soil health, focusing on species choice to reduce overall IPM strategies to maintain field.



Resilient Bennington Street & Fredericks Park Project



Boston and Revere FY24



This coastal resilience project spans East Boston and Revere and aims to reduce coastal flooding that enters both communities via three flood pathways originating in the Belle Isle Marsh. Learn more [here](#)!

AWARD

\$330,500

MATCH

~\$111,964

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Using hybrid/nature-based solutions to reduce coastal flooding and achieve multiple community benefits.

DESCRIPTION

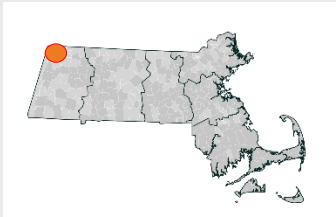
The project involved a robust alternatives analysis that evaluated multiple strategies for coastal resilience and recreational improvements spanning Bennington Street in East Boston and Fredericks Park in Revere, and permitting pathways associated with each. Once constructed, the project will provide coastal flood protection to residents (most of whom fall within environmental justice populations), a public school, a VFW facility, and regionally-significant infrastructure, including the MBTA Blue Line and an evacuation corridor. The project also evaluated potential marsh migration opportunities for the Belle Isle Marsh, which is one of the last salt marshes in Boston Harbor that is under threat from sea level rise.



Briggsville Water District Land Acquisition for Flood and Drought Resilience



Briggsville Water District FY24



Learn MoreL

- [Clarksburg Town Website](#)

AWARD \$48,150 **MATCH** \$16,038.20

PROJECT TYPE Planning & Land Acquisition

CORE PRINCIPLES DEMONSTRATED Employing Nature-Based Solutions

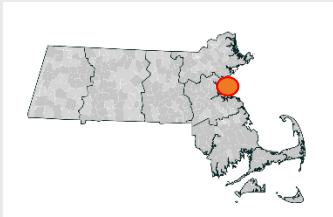
DESCRIPTION With funding from MVP, Briggsville Water District was able to acquire land to 60 ft. upland of the current pump station which is currently in the floodplain of the North Branch Hoosic River. This parcel allows the District to relocate and upsize the water tank so that it is both flood and drought resilient.



The Facilities Project: Flood proofing facilities that host or serve priority population



Burlington FY24 on behalf of Resilient Mystic Collaborative's Upper Mystic Working Group



Learn More:

- [Project Website](#)

AWARD

\$90,600

MATCH \$32,700

PROJECT TYPE

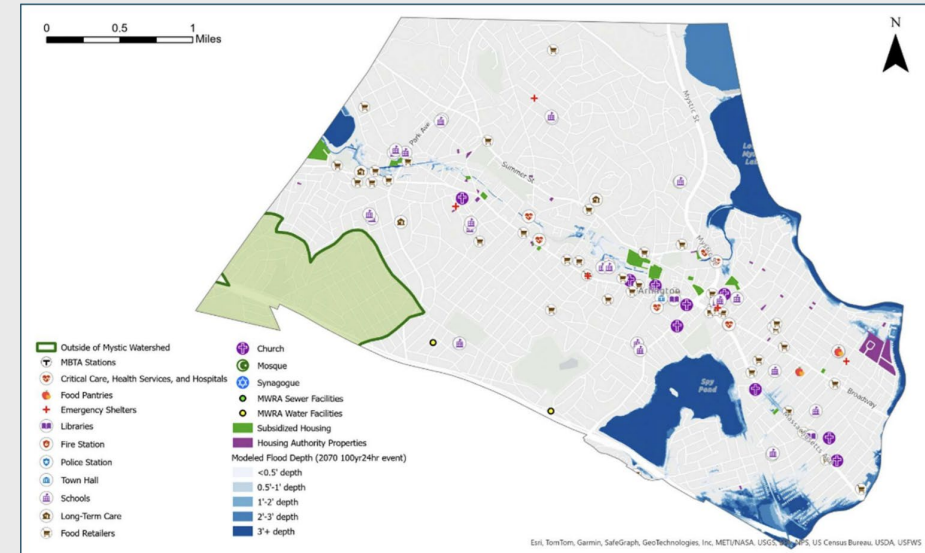
Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES
DEMONSTRATED

Utilizing regional solutions toward regional benefit; utilizing climate change data for a pro-active solution

DESCRIPTION

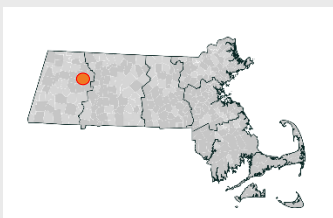
The goal of the project is to 1) identify flood-prone sites that serve priority populations in the upper Mystic watershed; 2) establish criteria with the Upper Mystic Working Group to prioritize these sites; 3) groundtruth these findings with municipal stakeholders; and 4) identify opportunities and constraints for the top identified sites in each municipality.



Conway Center Flood Mitigation



Conway FY24



Learn More:

[Project Website](#)

[Virtual Watershed Tour](#)

AWARD

\$ 279,000

MATCH

\$ 35,319.80

PROJECT TYPE

Type 1: Planning, Assessments, Capacity Building, and Regulatory Updates

**CORE PRINCIPLES
DEMONSTRATED**

Utilizing climate change data for a proactive solution and Building community capacity for climate resilience

DESCRIPTION

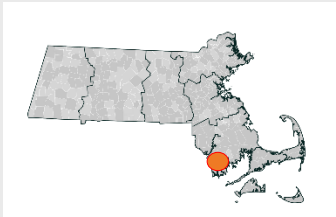
The primary goal of this project was to gather data for the final development of a flood model for the South River (including the Pumpkin Hollow Brook tributary), to evaluate flood impacts within the Center of Conway, develop and evaluate potential flood mitigation strategies to minimize the risk of flooding for Conway residents, and conduct public education and outreach about the need for flood mitigation strategies.



Town of Dartmouth/Nature-Based Solutions Retrofit to Critical Infrastructure within Coastal Flood-Prone Areas



Dartmouth FY24



Learn More:

[Project Website](#)

AWARD \$84,375.00 **MATCH** \$32,398.90

PROJECT TYPE Type 2: Design and Permitting

CORE PRINCIPLES DEMONSTRATED Employing Nature-Based Solutions; Achieving Broad and Multiple Community Benefits

DESCRIPTION

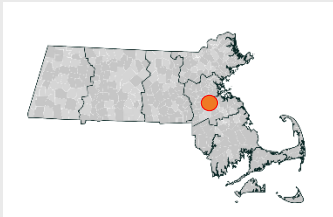
- Completed a municipal infrastructure vulnerability assessment at areas with known flooding that will be negatively impacted by climate change; and completed 90% design plans at two high priority sites.
- Conducted a comprehensive public education program with local partners to educate the Dartmouth community and visitors about the MVP program and its core principles.



Short- and Long-Term Flood Resilience Strategies for Dedham's Manor Neighborhood: Phase 2



Dedham FY24



Learn More:

[Dedham Manor Neighborhood Project](#)

AWARD

\$93,750

MATCH

\$31,250

PROJECT TYPE

Design and Permitting

**CORE PRINCIPLES
DEMONSTRATED**

Utilizing climate change data for a proactive solution; Employing nature-based solutions; Pursuing innovative, transferrable approaches.

DESCRIPTION

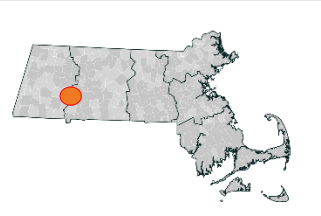
- Educated residents on nature-based solutions to manage stormwater on private property.
- Reviewed regulatory considerations for flood mitigation including management of runoff from private property, creation of an overlay district, and managed retreat/buyout programs.
- Developed nature-based flood mitigation concepts. Advanced outfall daylighting to 25% design.



Emerald Place Resiliency Improvements



Easthampton FY24



Learn More:

[Project Website](#)

AWARD

\$304,800

PROJECT TYPE

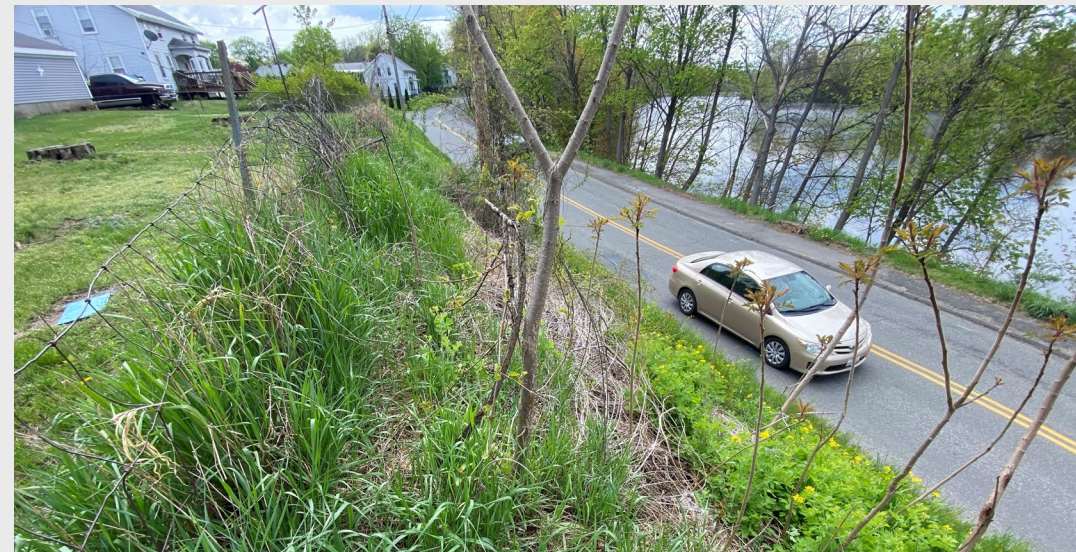
Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Employing Nature-Based Solutions; Increasing Equitable Outcomes for EJ Populations; Achieving Broad and Multiple Community Benefits; Robust Community Engagement

DESCRIPTION

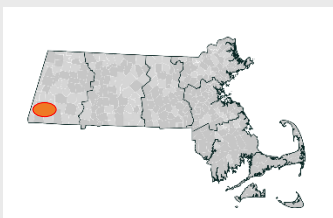
- Emerald Place is at the top of slope along Lower Mill Pond and suffers from erosion and slope failure driven by drainage from increasingly heavy storm events in a dense, highly impervious neighborhood.
- The project advanced design for green infrastructure and nature-based slope stabilization along Emerald Place to 90% design and completed permitting for the project.
- Community outreach included hands-on design activities with Easthampton's 4th graders and a 7th grade field trip, as well as project-specific gatherings, and development of a public art project.



Bringing Climate Action Home to Egremont



Egremont FY24



Learn More:

- [Project Website](#)

AWARD

\$81,500

MATCH

\$9,250

PROJECT TYPE

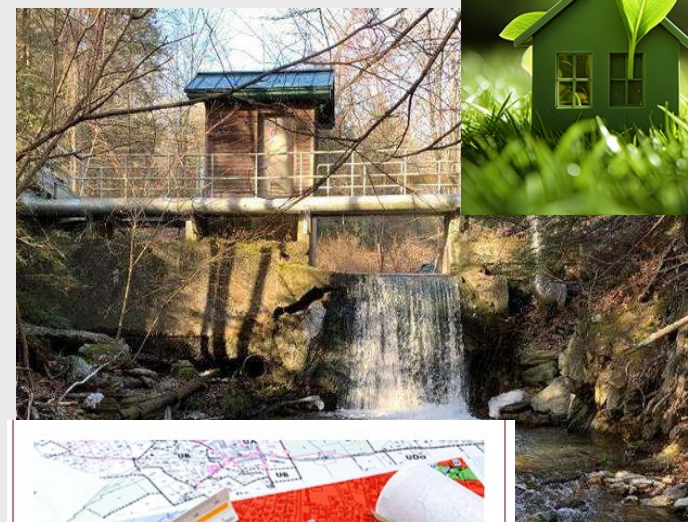
Planning, Assessment, Capacity-building & Regulatory Updates

**CORE PRINCIPLES
DEMONSTRATED**

Building community capacity for climate resiliency. Collect local baseline climate change data to inform residents. Review, revise and adopt climate-friendly Town Policies & Bylaws

DESCRIPTION

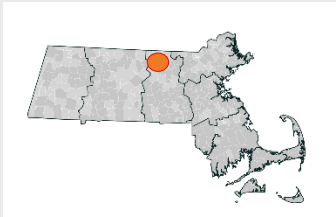
- Gather baseline data on surface and ground water resources, supplying public water system. Complete Hydrologic/hydraulic modeling, geophysical explorations and well-siting analysis at Karner Brook watershed
- Conduct multiple public interactive workshops to educate, engage and build capacity/political will to adopt new Climate-friendly Town Policies & Zoning Bylaws



Generating & Measuring Resiliency Downtown with Nature-Based Solutions



Fitchburg FY24



Learn More:

[Fitchburg Downtown Nature-Based Solution Designs Story Map](#)

AWARD

\$293,800

MATCH \$97,400

PROJECT TYPE

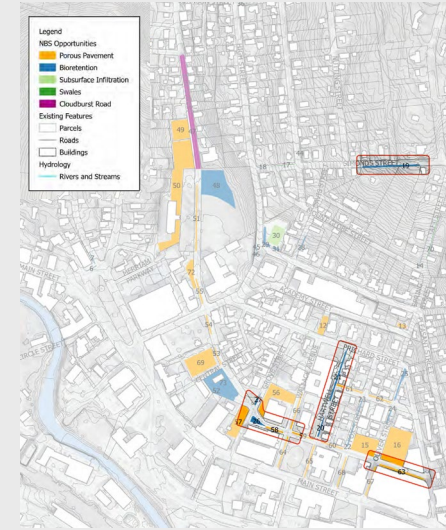
Design & Capacity Building

CORE PRINCIPLES
DEMONSTRATED

Utilizing climate change data for a proactive solution
Employing Nature-Based Solutions (NBS)
Committing to monitoring project success and maintaining the project into the future

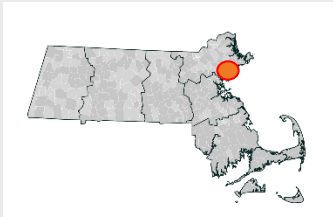
DESCRIPTION

Focusing within the ongoing combined sewer overflow (CSO) separation drainage area in downtown Fitchburg, this project utilized future climate data to identify opportunities for Nature-Based Solutions (NBS) to help mitigate urban flooding and heat. Twelve projects that represented significant improvements to flooding as well as providing numerous co-benefits were prioritized and progressed further through concept design with the intention of implementing them as part of the CSO construction. Given Fitchburg's continued investment into NBS and green infrastructure (GI), this project included the development of Monitoring and Maintenance Guidelines for NBS, staff field training for NBS maintenance, and student & community monitoring days. NBS projects designed with FY23 MVP funding were used as pilot projects for monitoring events.



Gloucester Low-Lying Roads Project

Gloucester FY24



Learn More:
[Project Website](#)

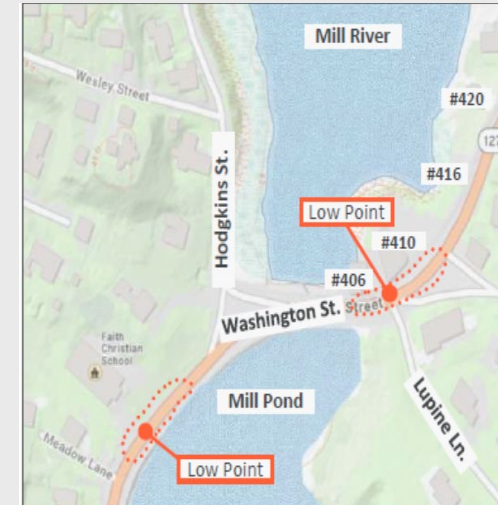
AWARD \$58,506.00 MATCH \$19,697.00

PROJECT TYPE Concept Design for Flood Mitigation

CORE PRINCIPLES DEMONSTRATED Identified 2 roadways of high importance for flood risk mitigation

DESCRIPTION

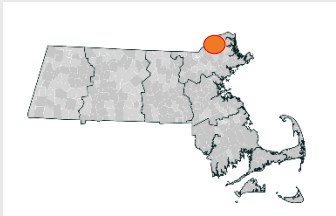
- Conducted field trips with project partners and members of the public to discuss vulnerable roadways and solutions
- Generated maps and project costs for deploying infrastructure to mitigate the worst effects of flooding on these roadways



Johnson Creek Watershed Flood Resiliency Project (Phase 2)



Groveland FY24



Learn More:

- [Project Website](#)

AWARD	\$143,666	MATCH	\$47,890
PROJECT TYPE	Design and Permitting		
CORE PRINCIPLES DEMONSTRATED	Employing Nature-Based Solutions, Achieving Broad and Multiple Community Benefits		
DESCRIPTION	During Phase 1, a detailed watershed-wide vulnerability study relative to current and future climate conditions was performed and a list of prioritized recommendations (i.e., Action Plan) to increase resiliency to climate change throughout the watershed was developed. The purpose of this Phase 2 was to begin implementing high priority projects based on recommendations in the Action Plan. Implemented recommendations included design and permitting of stream crossing improvements at Lower Center Street and design and construction of green infrastructure at Groveland Park.		

Lower Center Street Stream Crossings



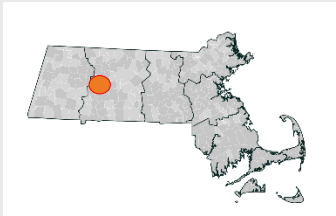
Groveland Park Green Infrastructure



Town of Hadley Watershed-Wide Flood Resilience Improvements



Hadley FY24



Learn More:

- [Project Website](#)

AWARD	\$157,641	MATCH	\$52,680
PROJECT TYPE	Design and Permitting		
CORE PRINCIPLES DEMONSTRATED	Employing Nature-Based Solutions, Achieving Broad and Multiple Community Benefits		
DESCRIPTION	The purpose of this project was to perform a detailed watershed-wide vulnerability study relative to current and future climate conditions, develop a list of prioritized recommendations (i.e., Action Plan) to increase resiliency to climate change throughout the watershed, and begin implementing high priority projects based on recommendations in the previously developed Action Plan. Implemented recommendations included design and permitting of stream crossing improvements at East Street and design and construction of green infrastructure at the DPW Facility.		

East Street Stream Crossings



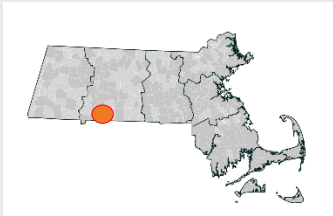
DPW Facility Green Infrastructure



Hampden Main Street Bridge Replacement and Green Solutions MVP Action Grant Project



Hampden FY24



Learn More:

[Project Story Map](#)

AWARD \$247,740.00 **MATCH** \$82,837.00

PROJECT TYPE Design and Permitting

CORE PRINCIPLES DEMONSTRATED Improvements of Town Stormwater Infrastructure and Identification of Nature Based Solutions

DESCRIPTION Design for the Replacement of Main Street Bridge over East Brook in conformance with the Massachusetts Stream Crossing Standards.
Conceptual design of bio-retention areas or other nature-based solutions at up to 3 locations within the East Brook watershed.

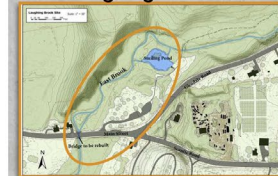
Hampden - Main Street over East Brook Replacement Bridge Design



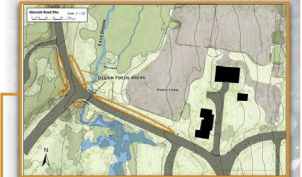
A-1. Laughing Brook



A-2. Laughing Brook



B. Glendale Road

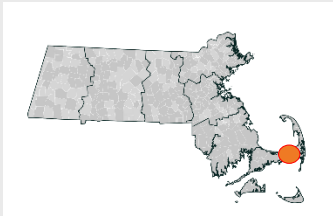


C. Bennett Road



Route 124 Culvert Replacement

Harwich FY24



Learn More:

[Harwich Municipal Vulnerability Preparedness Plan](#)

[Harwich Select Board Meeting – Public Presentation](#)

AWARD

\$ 89,913

MATCH

\$ 29,971

PROJECT TYPE

Existing Condition Assessment, Alternative Analysis

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action to address climate change impacts; Utilizing climate change data for a proactive solution; Employing Nature-Based Solutions (NBS);

DESCRIPTION

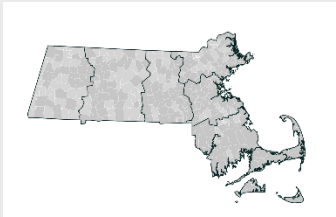
- An existing conditions assessment was completed that included land & geomorphic survey, wetland flagging, and subsurface exploration.
- Hydrologic and Hydraulic Analysis was completed on the existing condition and the preferred alternative.
- The project team developed an Alternatives Analysis Memorandum for the culvert replacement and open channel design to improve fish passage, roadway safety, and hydraulic resiliency.
- Engagement with the local community and project stakeholders.



Day Brook Watershed



Holyoke FY24



AWARD

MATCH

PROJECT TYPE

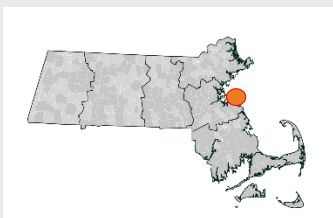
CORE PRINCIPLES
DEMONSTRATED

DESCRIPTION

Hull Climate Adaptation Roadmap: Phase 2



Hull FY24



Learn more:

[Hull Climate Adaptation Roadmap: Hampton Circle Area | Hull MA](#)

Story Map: [Hull Climate Adaptation Roadmap \(arcgis.com\)](#)

AWARD

\$200,000

MATCH \$ 70,000

PROJECT TYPE

Planning, Assessment, and Design

**CORE PRINCIPLES
DEMONSTRATED**

Employing Nature-Based Solutions;
Developing more Robust Community Engagement;
Pursuing innovative, transferable approaches

DESCRIPTION

This area has historically been vulnerable to high tide flooding which has become more frequent. This year (2024) this neighborhood has seen impassible roads during at least 5 different flooding events. The roadmap has identified immediate and intermediate steps to alleviate flooding which include wetlands restoration, improved drainage, low cost retrofits, and actions that area residents may take (home elevations, potential buyout). Intermediate actions include road elevation and an automated tide gate to control flood water levels to the interior. This, coupled with low cost retrofits, will provide flood protection for the more frequent less severe flood events. Please visit our story map for more information.

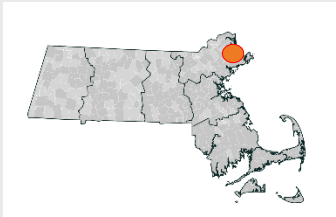
Near-Term			Mid-Term		Long-Term
Repair Existing Flood Wall		Construct Tie-in Expansion			
Stormwater Assessment and Resilient Improvements to Drainage		Redesign Abandoned Portion of Stormwater System			
Design of Ecological Restoration Wetland/NBS in Park			Expand Footprint of Wetland		Full Restoration of HCA
Promote Home Elevation Program				Potential Buyouts	
Design and Construct Elevated Portion of Roadway with Culvert and Tide Gate			Construct an elevated roadway		
2024	2025	2026	2030	2050	2070



Upper Castle Neck Salt Marsh Restoration



Ipswich FY24



AWARD

Learn More:

- [Castle Neck River Restoration](#) – Web Page
- [Reclaiming the Great Marsh](#) – Blog Post

MATCH \$42,946

PROJECT TYPE

Design and Permitting

**CORE PRINCIPLES
DEMONSTRATED**

Employing Nature-Based Solutions; Utilizing climate change data for a proactive solution

DESCRIPTION

Developed permit-level designs and an H&H analysis for road abandonment over a stream and the Great Marsh

Developed a marsh restoration plan

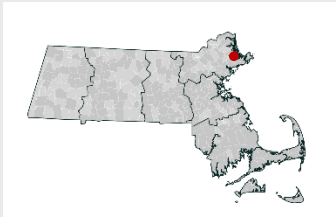
Developed an alternatives analysis for addressing an upstream crossing



Ipswich Town Wharf Pump Station Relocation and Coastal Resiliency Improvement Project



Ipswich FY24



Learn More:

[Project Video](#)

AWARD \$235,000.00 **MATCH** \$41,130.00

PROJECT TYPE Type 2 – Design and Permitting

CORE PRINCIPLES DEMONSTRATED This project furthers a community identified priority action to address climate change impacts; Employing Nature-Based Solutions

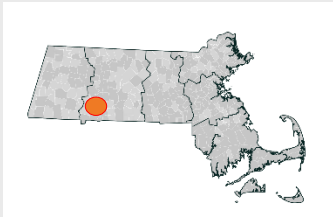
- DESCRIPTION**
- This project supported preliminary and 30% design for the relocation of the Town Wharf Pump Station out of the local flood zone
 - Funding empowered partnerships between Ipswich Utilities and the Ipswich Housing Authority and Ipswich High School
 - Outreach included infrastructure education, digital and print material creation, and an exploration of ecosystem restoration options for the Wharf



Resilient Stormwater and Urban Heat Island Assessment



Ludlow FY24



Town's website: <https://www.ludlow.ma.us/227/Municipal-Vulnerability-Program-MVP-Comm>

YouTube recording of Urban Heat Webinar: <https://youtu.be/VMv7q-Zo38w>

AWARD

\$135,000

MATCH \$45,000 (25%)

PROJECT TYPE

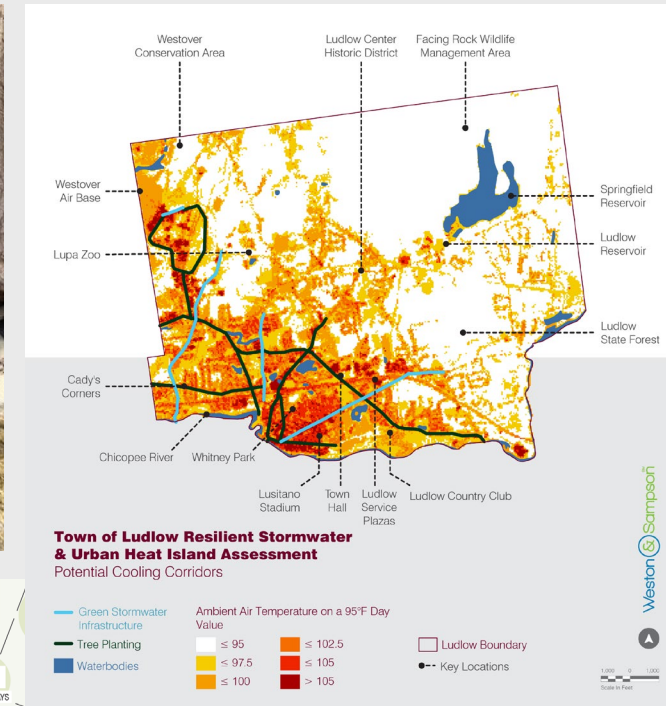
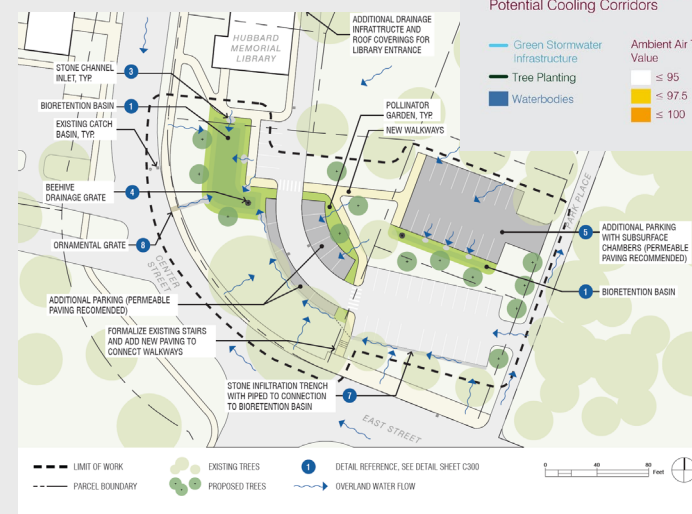
Planning, Assessments, Capacity Building, and Regulatory Updates

**CORE PRINCIPLES
DEMONSTRATED**

Employing Nature-Based Solutions (NBS); Furthering a community identified priority action to address climate change impacts

DESCRIPTION

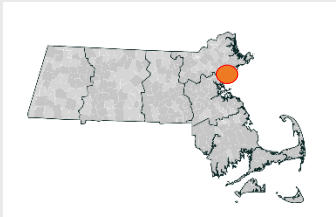
- Complete a town-wide culvert inventory and assessment
- Evaluate locations for Nature-Based Solutions to reduce flooding and prepare concepts and costs for top actions.
- Complete an Urban Heat Island Assessment with overlays of EJ neighborhoods, community facilities, and vulnerable populations.
- HS students made urban heat PSAs, Town hosted a regional webinar on urban heat



G.E.A.A. Field: Flooding Now, Floodable in the Future



Lynn FY24



Learn More:

[Project Website](#)

AWARD

\$190,000

MATCH \$65,000

PROJECT TYPE

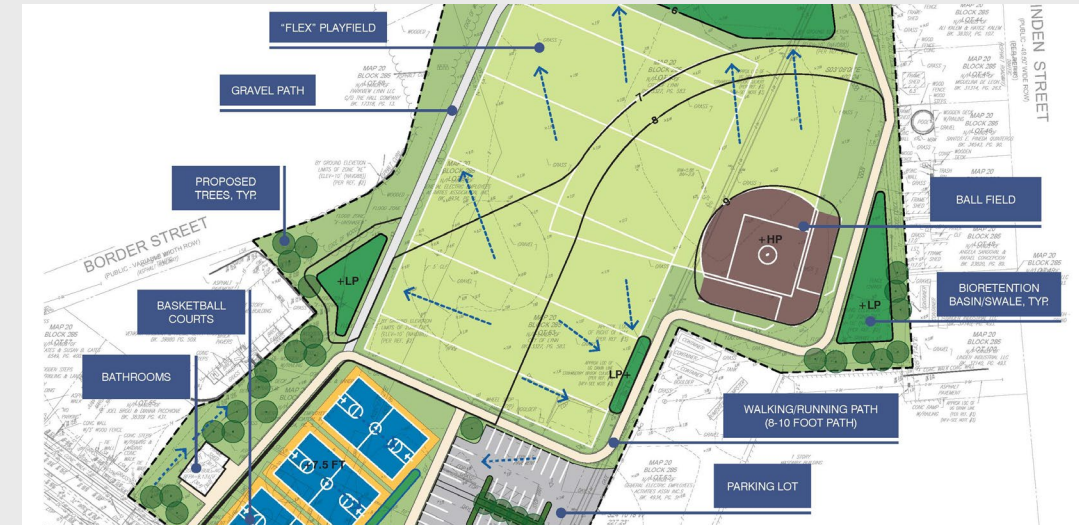
Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Employing Nature-based solutions
Achieving broad and multiple community benefits

DESCRIPTION

One of Lynn's few recreational field areas is impacted by both coastal and inland flooding.
Design for floodable playing space through 2050.
Addition of stormwater management and urban heat island reduction features.
Strong community input on features & amenities.

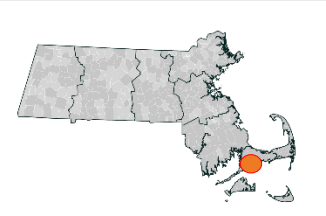


Increasing Resilience to Harmful Algal Blooms in Santuit Pond

Town Landing Stormwater Design and Permitting



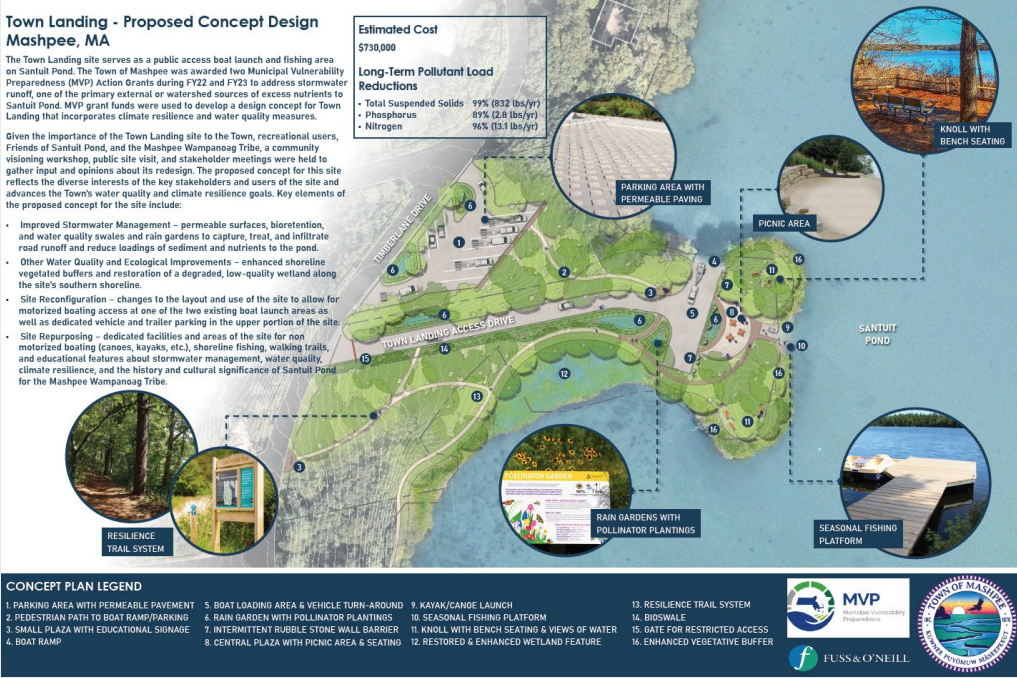
Mashpee FY24



Learn More:

- [Project Website](#)

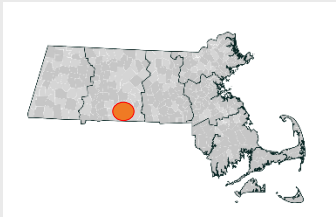
AWARD	\$228,000	MATCH	\$86,379
PROJECT TYPE	Design and Permitting		
CORE PRINCIPLES DEMONSTRATED	Employing Nature-Based Solutions; Supporting Strong Partnerships with Climate Vulnerable Populations; Achieving Broad and Multiple Community Benefits		
DESCRIPTION	- Completed design and permitting for green stormwater infrastructure and other resilience & water quality improvements at the Town Landing site adjacent to Santuit Pond - Continued partnership between the Town of Mashpee and the Mashpee Wampanoag Tribe, including ongoing community engagement centered around Santuit Pond		



Bunyan Road Relocation and Floodplain Restoration



Monson FY24



AWARD \$291,500.00 **MATCH** \$97,300.00

PROJECT TYPE Design and Permitting

CORE PRINCIPLES DEMONSTRATED Employing nature-based solutions; climate-resilient design; community outreach and visioning

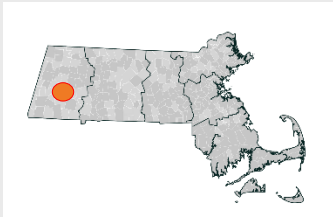
- DESCRIPTION**
- Assessed restoration potential and wetland delineation to mitigate construction
 - Initiated community engagement projects along Chicopee Brook to gather environmental health data and enlist public involvement
 - Designed 25% plan for relocation and construction of Bunyan Road, including travel, ecological, and ownership considerations



Enhancing Flood Resiliency Through the Evaluation and Redesign of Critical Infrastructure Along the Konkapot River - Phase II Final Design & Permitting



Monterey FY23-FY24



Learn More:

[Project Website](#)

AWARD \$124,071 **MATCH** \$20,052

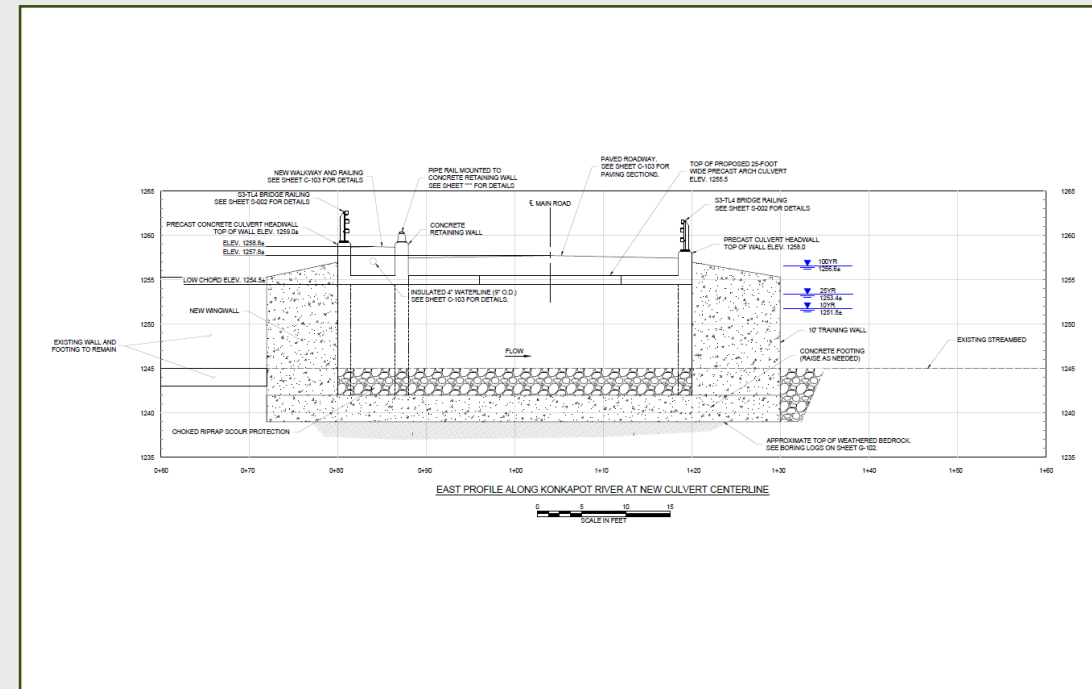
PROJECT TYPE Permitting and Final Design

CORE PRINCIPLES DEMONSTRATED

- Employing Nature-Based Solutions (NBS)
- Furthering a community identified priority action to address climate change impacts

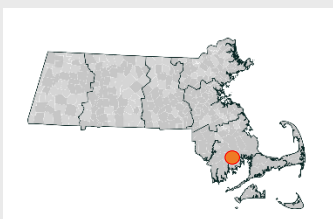
DESCRIPTION

The project prioritized completing final designs and securing permits for the Route 23 culvert replacement to enhance flood resilience. It also included nature-based solutions such as riverbank erosion control, extensive community engagement, and educational initiatives for stormwater management. Additionally, two demonstration projects provided residents with a "living project" showcasing nature-based solutions and climate resiliency efforts.



Kempton Street Corridor Green Infrastructure

New Bedford FY24



[Kempton Street Project and Green Infrastructure Information](#)

AWARD

\$350,750

MATCH

\$117,800

PROJECT TYPE

Design and Permitting

**CORE PRINCIPLES
DEMONSTRATED**

Furthering a community-identified priority action to address climate change impacts

DESCRIPTION

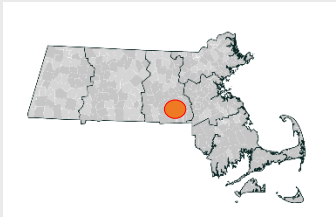
Originally planned as implementation of one project element in a single year, combined funding provided for a greatly expanded scope that will continue over a two-year period. FY24 MVP funding provided for procurement and contracting to fully implement nature-based solutions to better manage stormwater in the Buttonwood Brook Watershed.



Flood Resilience and Water Quality Protection Through Better Causeway and Green Infrastructure Design



Northbridge FY24



Learn More:

- [Project Website](#)

AWARD

\$ 402,627

MATCH

\$ 137,831

PROJECT TYPE

Design and Permitting

**CORE PRINCIPLES
DEMONSTRATED**

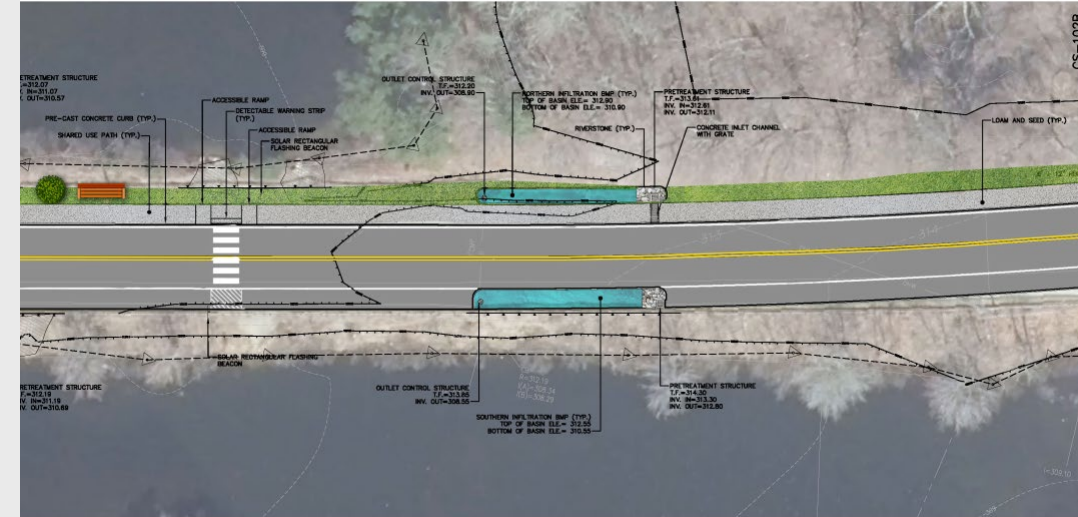
Employing Nature-Based Solutions; Achieving Broad and Multiple Community Benefits

DESCRIPTION

This project focused on addressing near term stormwater-related challenges and enhancing long-term climate resilience for the Town of Northbridge.

Along Main Street, we designed green infrastructure and pedestrian enhancement to treat stormwater runoff and enhance public safety along the causeway.

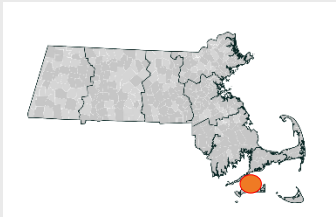
On Carpenter Road, we designed a replacement causeway bridge structure that would be more resilient to flooding events, incorporate nature-based solutions, and enhance hydraulic exchange in the Carpenter Reservoir, and provide a safer crossing for vehicular traffic.



Dukes County Avenue Pump Station Resiliency Improvements



Oak Bluffs FY24



Learn more:

- [Project Website](#)

AWARD

\$146,658.00

MATCH

\$49,052.42

PROJECT TYPE

Design

**CORE PRINCIPLES
DEMONSTRATED**

Furthering a community identified priority action to address climate change impacts

Utilizing climate change data for a proactive solution

DESCRIPTION

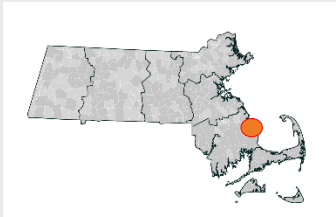
- Provides an opportunity to address multiple infrastructure challenges through one project.
- Provides flood resiliency to critical infrastructure that conveys approximately 90% of the Town's wastewater to the treatment facility.
- Includes cost-effective flood resiliency strategies to increase the flood resilience of infrastructure while the Town continues its planning effort to adapt to climate change.



Bartlett Road Resiliency: Bartlett Road Dam Removal, Culvert Resiliency and Stormwater Improvements



Plymouth FY24



AWARD \$1,975,959.00 (75%) **MATCH** \$1,317,306.00 (25%)

PROJECT TYPE Construction & On the Ground Implementation

CORE PRINCIPLES DEMONSTRATED Building community capacity for climate resilience;
Employing Nature Based Solutions (NBS)

DESCRIPTION

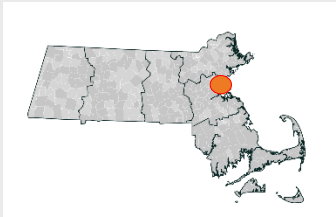
- Improves river herring passage in the unnamed tributary to Beaver Dam Brook from the downstream Tidmarsh Wildlife Sanctuary to upstream Fresh Pond for spawning.
- Designed according to the Massachusetts Stream Crossing Standards to improve climate readiness and protect water quality by accommodating larger storm flows and incorporating green infrastructure
- Benefits public safety by providing a wider road and sidewalk for safe pedestrian crossing, improved vehicular sight lines, and a higher load rating to accommodate public vehicles like school buses and fire trucks.



SPRARR-Regional Project



Revere FY24



Learn More:

[Saugus River Watershed Regional Adaptation Plan Story Map](#)

AWARD

\$154,717

MATCH

In-kind \$38,679.25

PROJECT TYPE

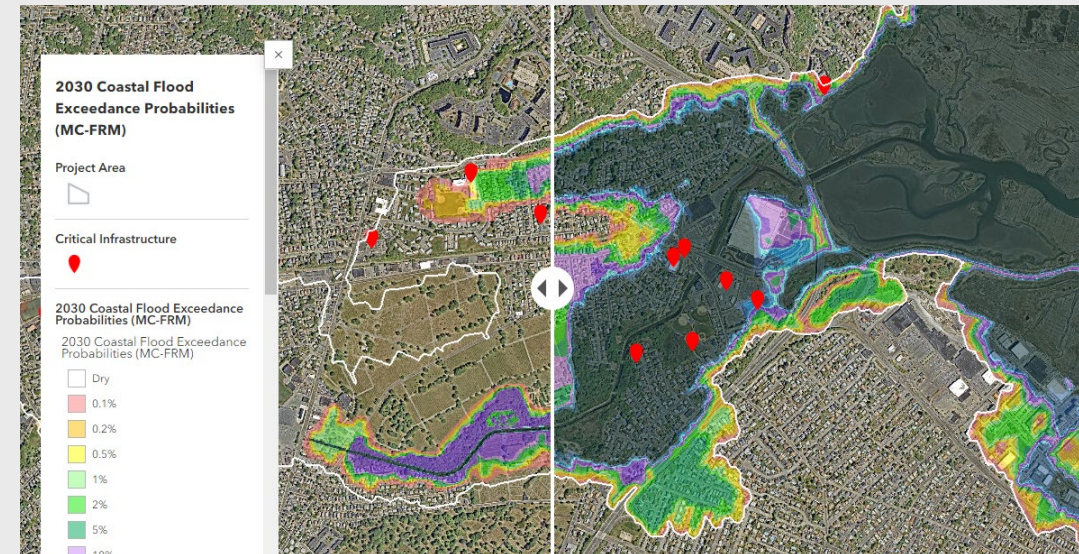
Type 2: Design and Permitting

**CORE PRINCIPLES
DEMONSTRATED**

Conducting robust community engagement and supporting strong partnerships with EJ and other priority populations

DESCRIPTION

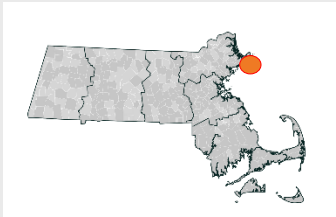
The overarching goal was to identify the most vulnerable locations and prioritize needed adaptations that may reduce flood risk for more jurisdiction that could be approached as a region as opposed to in silos. Community engagement included a multilingual survey and Public Information Sessions.



Rockport Coastal Resilience Planning Project



Rockport FY24



Learn More:

- [Project Website](#)

AWARD \$242,067.00 **MATCH** \$58,875.70

PROJECT TYPE Planning, Assessments, Capacity Building

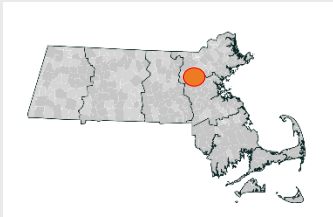
CORE PRINCIPLES DEMONSTRATED Addressed Community Climate Resilience Priorities

- DESCRIPTION**
- Identified Nature-based Solutions (NbS) for vulnerable coastal locations
 - Centered community priorities, EJ & vulnerable populations
 - Provided multi-modal education & outreach



549 Main Street Acquisition

Water Supply District of Acton FY24



Learn more:

- [Project Website](#)

AWARD \$1,505,414 **MATCH** \$2,566,500

PROJECT TYPE Construction and On-the-Ground Implementation

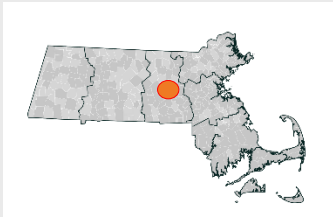
CORE PRINCIPLES DEMONSTRATED Employing Nature-Based Solutions; Furthering a community identified priority action to address climate change impacts

- DESCRIPTION**
- Leveraged open space preservation to support sustainable and resilient water management for the community through water supply diversification via deep bedrock wells
 - Provides for 57 acres of diverse open space and connectivity to alternative transportation corridor in a densely populated area



Resilient Streams of the Wachusett Reservoir

West Boylston FY24



Information provided on Town website:
<https://www.westboylston-ma.gov/public-works/pages/resilient-streams-wachusett-reservoir>

AWARD

\$105,000

MATCH \$35,000

PROJECT TYPE

Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES
DEMONSTRATED

Employing Nature-Based Solutions (NBS); Furthering a community identified priority action to address climate change impacts

DESCRIPTION

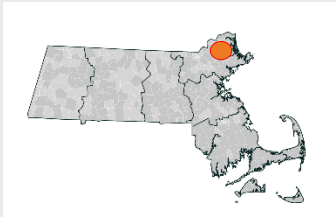
- Complete a town-wide culvert inventory and assessment
- Evaluate locations for Nature-Based Solutions to reduce flooding and prepare concepts and costs for top actions.
- Town engaged with Senior Center and individual stakeholders abutting streams for input and recommendations



Evaluating Vulnerabilities & Options for Resiliency: River Road & Environs



West Newbury FY24



Learn More--Climate Change Resiliency Committee Webpages:

- [FY24 MVP Action Grant](#)
- [Videos & Resources](#)
- [Citizens Science Program](#)

AWARD

\$150,000

MATCH \$50,000

PROJECT TYPE

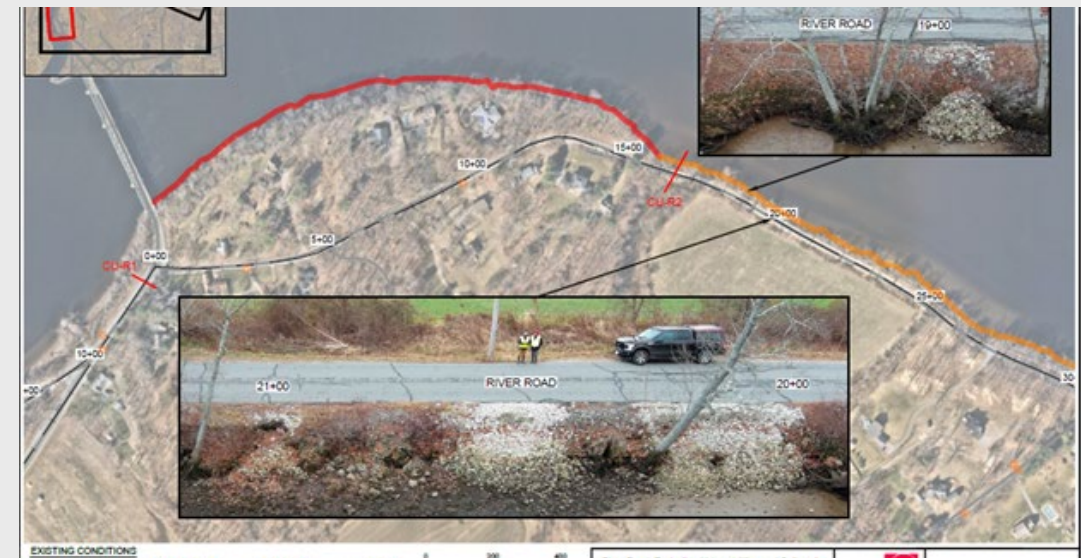
Planning, Assessments, Capacity Building & Regulatory Updates

**CORE PRINCIPLES
DEMONSTRATED**

Utilizing Climate Change Data to Assess Risk & Resiliency
Opportunities, Developing Community Awareness

DESCRIPTION

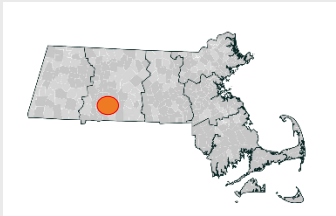
This project analyzed vulnerabilities and potential solutions to flood risk from the tidal Merrimack River at River Road and environs. It included public activities; an existing conditions survey; a study of stormwater infrastructure; a report of vulnerabilities in 2030, 2050, and 2070; and options for shoreline stabilization as well as other solutions for longer timeframes.



Establishment of a Tree Nursery and Development of a Tree Planting Program



West Springfield FY24



More Information:
[Project Website](#)

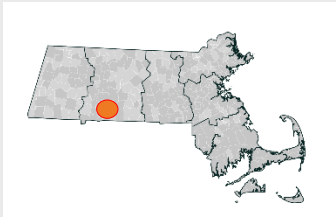
AWARD	\$59,000	MATCH	\$20,000
PROJECT TYPE	Construction and On-The-Ground Implementation		
CORE PRINCIPLES DEMONSTRATED	Employing Nature Based Solutions (NBS)		
DESCRIPTION	• Prioritize the Planting and Protection of Trees • Creation of a sustainable tree nursery and development of a long-term plan to ensure the continued growth and health of the town's urban forest. • Educate Residents on the Importance of Tree in Mitigating the Effects of Climate Change		



Culvert Asset Management and Bank Stabilization



Wilbraham FY24



Learn more:

[Wilbraham's Storm Water Resources Page](#)

AWARD

\$60,000

MATCH

\$20,000

PROJECT TYPE

Data Collection and Summary Report

**CORE PRINCIPLES
DEMONSTRATED**

Furthering a community identified priority action to address climate change impacts; Building community capacity for climate resilience

DESCRIPTION

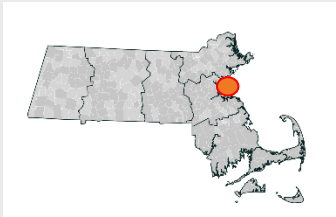
- Develop a prioritized culvert inventory consisting of GIS data and a 5-year capital improvement plan (CIP) to prioritize repairs, replacement and maintenance.
- Assess 5 stream channels for bank stabilization and conceptual restoration plans with preference to natural channel design and nature-based solutions.



Belle Isle Marsh as a Nature Based Solution to Coastal Flooding: Regional Collaboration and Morton Street Neighborhood Design and Permitting



Winthrop FY24



Learn More:

- [Mystic River Belle Isle Marsh Website](#)
- [Winthrop Project Website](#)

AWARD

\$291,076

MATCH

\$103,844

PROJECT TYPE

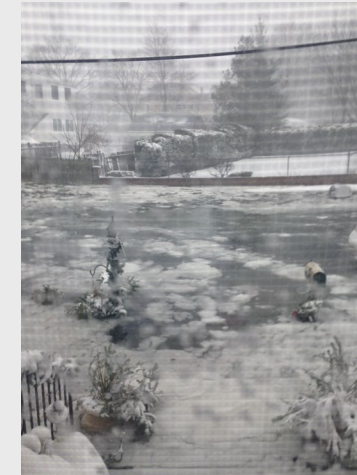
Type 2: Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Utilizing regional solutions toward regional benefit;
utilizing climate change data for a pro-active solution

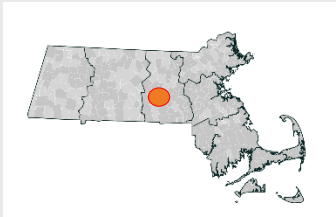
DESCRIPTION

The goal of the project is to 1) continue regional coordination to protect communities abutting Belle Isle Marsh while preserving the health of the marsh; and also 2) moving the top priority sites into design and permitting, including Morton Street in Winthrop, the focus of this phase of work.



Resilient Community Place-Making and Miyawaki Forests

Worcester FY24



Learn More:

- [Worcester Miyawaki Forests Story Map](#)
- [Worcester CoolPockets Story Map](#)
- [CoolPockets Resilience Summit Slideshow](#)

AWARD

\$409,461

MATCH

\$136,600

PROJECT TYPE

Implementation

**CORE PRINCIPLES
DEMONSTRATED**

Employing Nature-Based Solutions; Achieving Broad and Multiple Community Benefits

DESCRIPTION

The project's main goal was to promote climate resilience to extreme heat of our community's most vulnerable populations.

We designed and planted 2 Miyawaki Forests in the EJ heat-prone areas with deep community engagement; and designed 2 CoolPockets, allowing us to be grant-proposal ready for the implementation phase.

