TOWN OF BRIDGEWATER PLYMOUTH COUNTY DRAFT WATER COURSES & FLOOD PLAIN MAP

Source: Town of Bridgewater, MassGIS Prepared by: Elijah Romulus, Assistant Town Planner, Community & Economic Development Department February 5, 2019

Please note location of features and boundaries shown are approximate and intended for planning and visualization. This is a draft map

REET

OLD .

INTERSTATE.

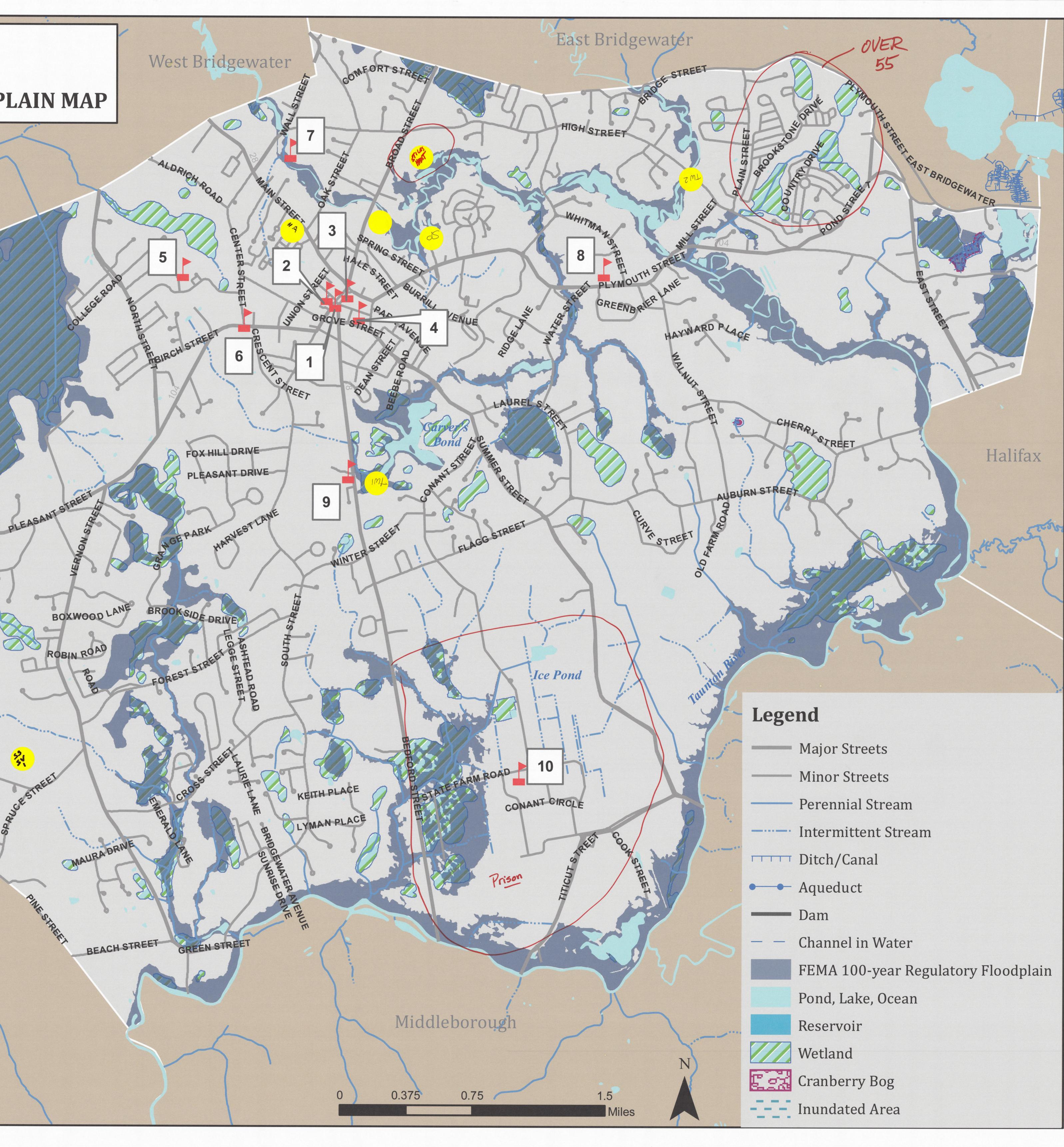
GROUP#

Critical Buildings 1. Academy Building

- 2. Public Library
- 3. School Street Fire Station
- 4. BSU
- 5. Bridgewater- Raynham Regional High School

Raynham

- 6. Police Station
- 7. Highway Department
- 8. North Fire Station
- 9. Senior Center
- 10. Bridgewater State Hospital



TOWN OF BRIDGEWATER PLYMOUTH COUNTY DRAFT WATER COURSES & FLOOD PLAIN MAP

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Critical Buildings 1. Academy Building

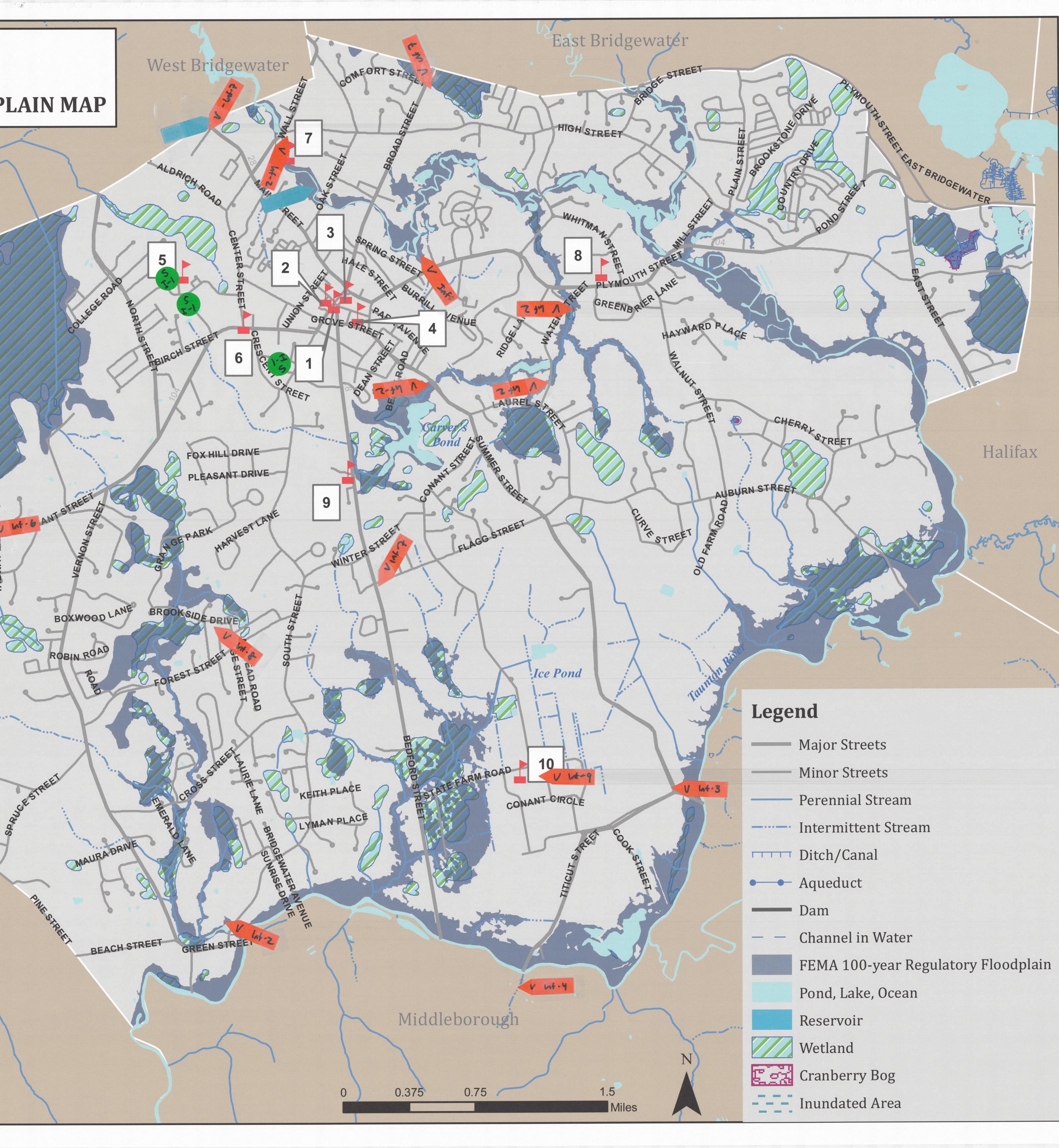
- 2. Public Library
- 3. School Street Fire Station
- 4. BSU 5
- 5. Bridgewater- Raynham Regional High School

Raynham

INTERSTATE

GNUD #2

- 6. Police Station
- 7. Highway Department
- 8. North Fire Station
- 9. Senior Center
- 10. Bridgewater State Hospital



TOWN OF BRIDGEWATER PLYMOUTH COUNTY DRAFT WATER COURSES & FLOOD PLAIN MAP

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Raynham

WTERSTATE

Critical Buildings

1. Academy Building

2. Public Library

3. School Street Fire Station

4. BSU

5. Bridgewater- Raynham Regional High School

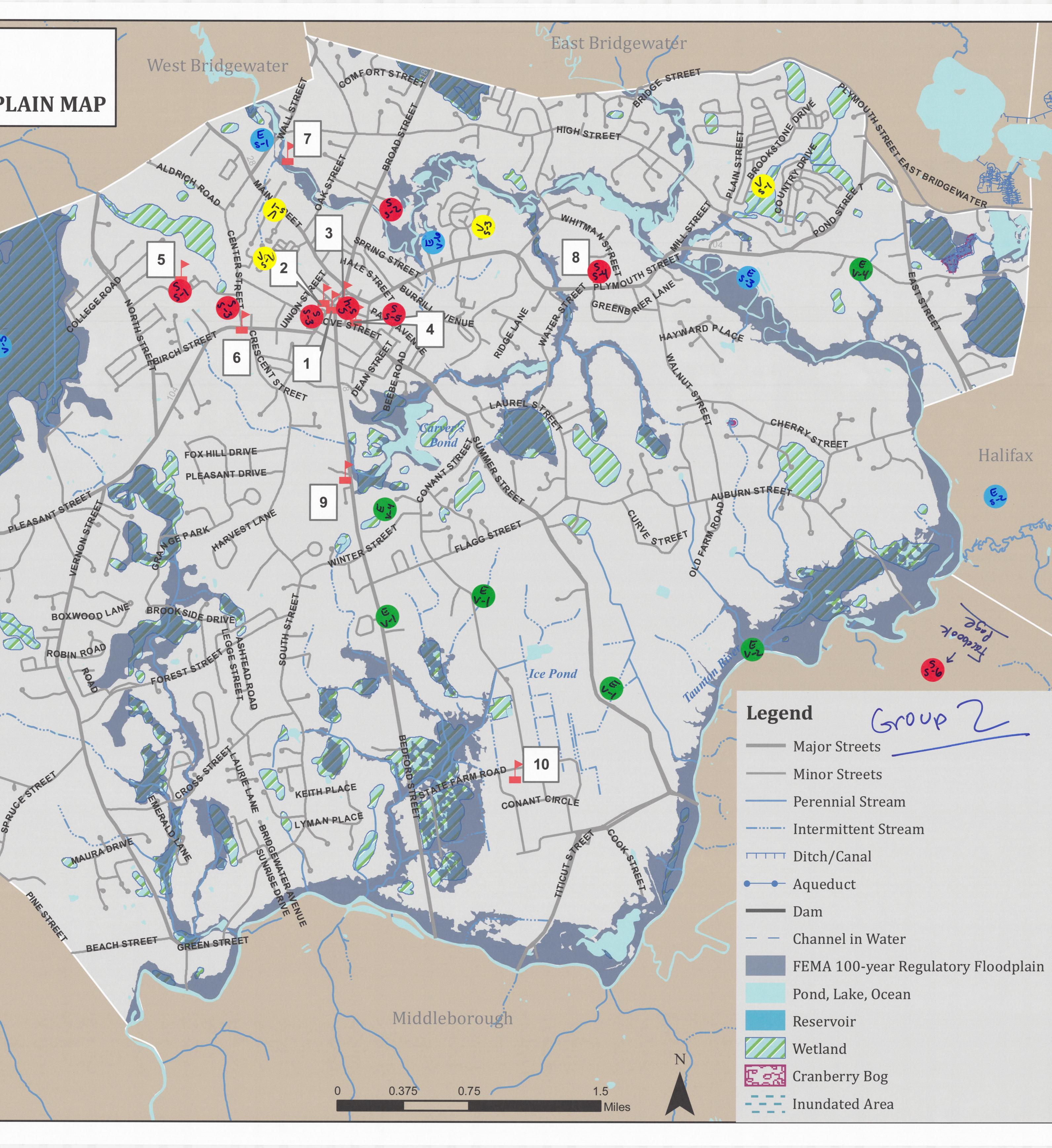
6. Police Station

7. Highway Department

8. North Fire Station

9. Senior Center

10. Bridgewater State Hospital



WORKSHOP NO. 2



GREEN INTERNATIONAL AFFILIATES, INC. 239 LITTLETON ROAD, SUITE 3 WESTFORD, MA 01886 T: (978) 923-0400 | F: (978) 399-0033 | WWW.GREENINTL.COM

ATTENDANCE SHEET

Project:	Bridgewater MVP workshop #2
Location:	66 Central Square, Bridgewater, MA
Date:	Thursday, February 21, 2019 at 10:00am

Name	Representing	Phone	Email
1. Danielle Spicer	Green International Affiliates, Inc	978-923-0400	dspicer@greenintl.com
2. Peter Richardson	Green International Affiliates, Inc	978-923-0400	prichardson@greenintl.com
3. Oxana Fartushnaya	Green International Affiliates, Inc	978-923-0400	ofartushnaya@greenintl.com
4. Elijah Romulus	Town of Bridgewater	508 697 0950	eromulus@bridgewaterma.og
5. Azu Etoniru	11 11	508 697 0906	getonin & bridge water man ong
6. Kitty			
7. Eileen Hiney	Citizen of BW	174-274-	fryleen Querizin.net
8. Ceerta Hun	+ MPC	508697 3681	Carlton (0) the hunts o
9. Fronk Seers	Town of MW	508-577 5479	<u> </u>
10. Iom Lery	Fire	697-0900	596 FAIRNKE GMARIL.CC TLENG Bridgewarding.
11. Lomaine Carnozza	- Elder Affairs	(508) 697-0929	LCarrozza@bridgewaterma-org
12. SPETION Solar	Boilding Inspula		SSolari & Briscanti MA . ORL
art H. Mac Dermot		697-6118	C. madermattebrickavatamarg
14. G Jueeet Juny And 15. J	& Town Clark	508-659- 1220	MKhunte bridgewaterna.org
15. Pop Pellegrini	Law Office	598807117	Tpellegrini@ pk botm.cm



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Bridgewater Municipal Vulnerability Preparedness (MVP) Plan Workshop No. 2

Peter A. Richardson, P.E., CFM, LEED AP, ENV SP Danielle Spicer, P.E., LEED AP, ENV SP (State Certified MVP Providers) February 21, 2019





Bridgewater...Preserving Our Past. Enriching Our Present. Building Our Future.



Building Strong Client Relationships Through Engineering Excellence

Agenda

10:00 – 10:10 am Recap of CRB Process 10:10 – 10:20 am Review of Goals & Hazards 10:20 – 11:00 am Finalize Risk Matrix 11:00 – 12:00 am Infrastructure Action Items 12:00 – 12:30 pm Lunch 12:30 – 1:00 pm Societal Action Items 1:00 – 1:30 pm **Environmental Action Items** Questions/Discussion/Next Steps 1:30 – 2:00 pm



MVP Program – CRB Process

Workshop No. 1: Finalize Step B & Work on Step C Workshop No. 2:

Finalize Steps C, D & E





p.3

Goals for the Town's MVP Plan

What are the Goals for The Town's MVP Plan?





Goals for the Town's MVP Plan

Goal No. 1: Successful completion of the CRB process to become designated as a "Municipal Vulnerability Preparedness Program Climate Community," or "MVP Climate Community", eligible for future MVP Action Grants.

Goal No. 2: Educate Public about climate change vulnerabilities in Bridgewater and develop comprehensive communication plan, including evaluation of evacuation plan(s).

Goal No. 3: Minimize impacts to public infrastructure from climate change, especially water supply wells, wastewater treatment plant, and bridges.

Goal No. 4: Evaluate Public Safety relative to environmental impacts and waterborne diseases

Goal No. 5: Improve Stormwater Management through Green Infrastructure and coordination with MS4 efforts.

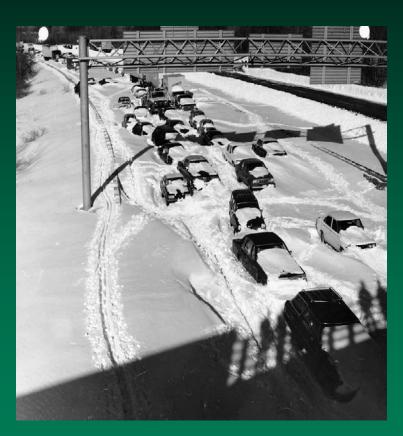


Characterize Hazards











Characterize Hazards

Types of Natural Hazards for Inland Communities

- Deep Freeze (Extreme cold)
- Drought
- Floods
 - * Excessive rainfall
 - * <u>Heavy rain on frozen ground,</u>
 - * Rain combined with snow melt
 - * Tidal Backwater (SLR)
 - Beaver Dams
- Geological Events
 - 🔅 Earthquake
 - 🔅 Erosion
 - ✤ Landslides

- Heat Wave
- Hurricanes (Flooding and Wind Damage)
- Microbursts/Tornadoes
- Thunderstorms/Lightning
- Wildfires
- Wind
- Winter Storms
 - * Nor'Easter
 - * <u>Blizzards</u>
 - * <u>Rain/snow mix</u>
 - * Ice storm



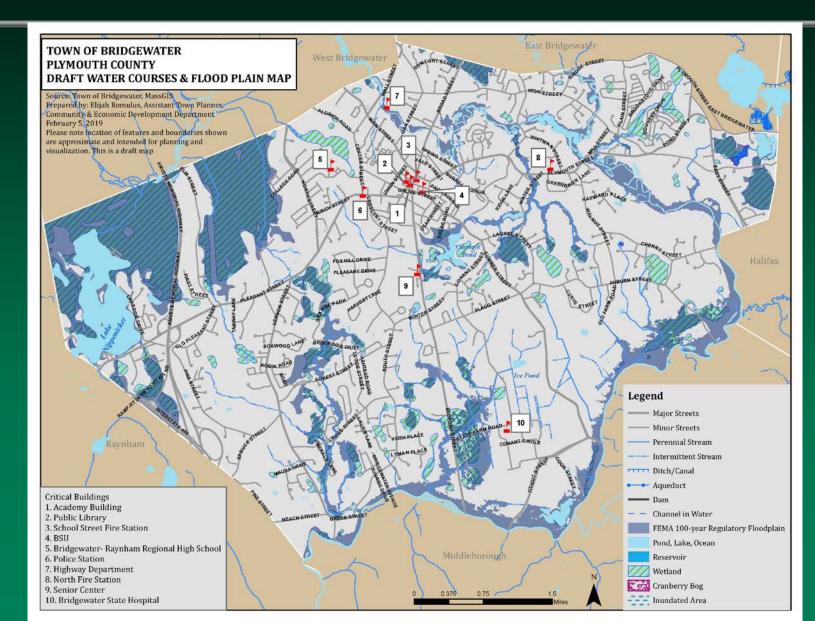
Characterize Hazards

Top Four Natural Hazards that will impact Bridgewater the Most as a Result of Climate Change

- 1. Flooding
- 2. Wind
- **3. Winter Storms/Extreme Cold**
- 4. Drought/Extreme Heat



Identify & Prioritize Community Actions





Questions/Discussion/Next Steps















LISTENING SESSION



ATTENDANCE SHEET

Project:Bridgewater MVP Listening SessionLocation:66 Central Square, Bridgewater, MADate:Wednesday, May 29, 2019 at 6:30pm

Name	Representing	Phone	Email
1. Danielle Spicer	Green International Affiliates, Inc	978-923-0400	dspicer@greenintl.com
2. Peter Richardson	Green International Affiliates, Inc	978-923-0400	prichardson@greenintl.com
3. Oxana Fartushnaya	Green International Affiliates, Inc	978-923-0400	ofartushnaya@greenintl.com
4. Lorraine Carrozz.	- Elder Affairs	508 697-0929	LCarrozza@bridgewaterma-org
5. Kitty Deherty	Vatural Resource conservation		hiverland 927 Egmal. com
6. Ray Memor	Planner board	5087 697 66-53	RPANEJTIAN & GATALL.CA
Lisa Sullivan	Planning Board	DF6973751	MFSUILIZEComcast.net
8. Eileen Hiney 9.	citizen	5082793955	- fryleene verizon.nel.
AZY Etonin	, TOWN Ensides	- Sog-697 0906	AETONIRUS C BRINGEWARD
10. JEN BURKE	Director of Commonity & Ecc	508-697	TBURKE CBRIDGEWATTERN ODC
11. Corlbn Hunt	MPG/FC	509243 0638	Carlton @ thehunts.ory
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13.			
14.			
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Bridgewater Municipal Vulnerability Preparedness (MVP) Plan Listening Session

Peter A. Richardson, P.E., CFM, LEED AP, ENV SP Danielle Spicer, P.E., LEED AP, ENV SP (State Certified MVP Providers) May 29, 2019





Bridgewater...Preserving Our Past. Enriching Our Present. Building Our Future.



Building Strong Client Relationships Through Engineering Excellence

Agenda

- Introduction
- Overview of MVP Program
- MVP Core Team
- Workshop Process
- Development of Action Items
- Summary of Findings





Overview of MVP Program



www.resilientma.org

Community Resilience Building Workshop Guide

www.CommunityResilienceBuilding.com

Community Resilience Building WORKSHOP GUIDE



www.CommunityResilienceBuilding.org

UMASS Climate Change Projections (March 2018)



Overview of MVP Program

March 2018

TAUNTON BASIN

MUNICIPALITIES WITHIN TAUNTON BASIN:

Abington, Attleboro, Avon, Berkley, Bridgewater, Brockton, Carver, Dighton, East Bridgewater, Easton, Fall River, Foxborough, Freetown, Halffax, Hanson, Holbrook, Kingston, Lakeville, Mansfield, Middleborough, New Bedford, North Attleborough, Norton, Pembroke, Plainville, Plymouth, Plympton, Raynham, Rehoboth, Rochester, Rockland, Sharon, Somerset, Stoughton, Swansea, Taunton, West Bridgewater, Whitman, and Wrentham



Many municipalities fail within more than one basin, so it is advised to use the climate projections for the basin that contains the majority of the land area of the municipality.

March 2018

TAUNTON BASIN

Taunton	Basin	Observed Baseline 1971- 2000 (°F)		cted Change 2030s (°F)		Mid-Century Projected Change in 2050s (°F)		Projected Change in 2070s (°F)			End of Century Projected Change in 2090s ("F)			
	Annual	49.9	+2.0	to	+3.8	+2.7	to	+5.9	+3.1	to	+8.6	+3.4	to	+10.5
	Winter	30.0	+2.2	to	+4.4	+2.9	to	+6.7	+3.5	to	+8.8	+3.9	to	+10.1
Average Temperature	Spring	47.3	+1.7	to	+3.4	+2.4	to	+5.4	+2.6	to	+7.5	+3.1	to	+9.2
remperature	Summer	69.6	+1.7	to	+3.9	+2.2	to	+6.3	+2.8	to	+9.6	+3.4	to	+11.6
	Fall	52.1	+2.1	to	+4.5	+3.4	to	+6.3	+3.2	to	+9.0	+3.7	to	+11.2
	Annual	60.3	+1.9	to	+3.7	+2.5	to	+5.9	+2.8	to	+8.6	+3.1	to	+10.4
	Winter	39.5	+1.8	to	+4.2	+2.5	to	+6.2	+3.0	to	+8.1	+3.4	to	+9.4
Maximum Temperature	Spring	58.0	+1.5	to	+3.4	+2.0	to	+5.2	+2.5	to	+7.6	+3.0	to	+9.0
remperature	Summer	80.5	+1.6	to	+3.8	+2.1	to	+6.2	+2.7	to	+9.7	+3.1	to	+11.6
	Fall	62.7	+2.1	to	+4.4	+3.3	to	+6.4	+3.1	to	+9.0	+3.4	to	+11.3
	Annual	39.4	+2.1	to	+3.9	+2.9	to	+6.1	+3.4	to	+8.6	+3.8	to	+10.6
Minimum Temperature Spring	Winter	20.5	+2.5	to	+4.7	+3.2	to	+7.3	+4.1	to	+9.4	+4.4	to	+10.8
	Spring	36.7	+1.8	to	+3.5	+2.7	to	+5.7	+2.7	to	+7.4	+3.2	to	+9.1
	Summer	58.6	+1.8	to	+3.9	+2.4	to	+6.5	+2.9	to	+9.4	+3.6	to	+11.5
	Fall	41.6	+2.1	to	+4.7	+3.5	to	+6.3	+3.3	to	+9.0	+4.0	to	+11.1

- The Taunton basin is expected to experience increased average temperatures throughout the 21st century. Maximum and minimum temperatures are also expected to increase throughout
- the end of the century. These increased temperature trends are expected for annual and seasonal projections.
- Seasonally, maximum summer and fall temperatures are expected to see the highest projected increase throughout the 21st century.
 - Summer mid-century increase of 2.1 °F to 6.2 °F (3-8% increase); end of century increase of 3.1 °F to 11.6 °F (4-14% increase).
 - Fall mid-century increase of 3.3 °F to 6.4 °F (5-10% increase); end of century increase by and 3.4 °F to 11.3 °F (5-18% increase).
- Seasonally, minimum winter and fall temperatures are expected to see increases throughout the 21st century.
 - Winter mid-century increase of 3.2 °F to 7.3 °F (16-35% increase); end of century increase by 4.4 °F to 10.8 °F (21-52% increase).
 - Fall mid-century of 3.5 °F to 6.3 °F (8-15% increase); end of century increase of 4 °F to 11.1 °F (10-27% increase).



MVP Core Team

- Jennifer Burke Town Planner
- Azu Etoniru Town Engineer
- Steven Solari Building Commissioner
- Kitty Doherty Greenway/Taunton River Stewardship Council
- Harry Bailey Conservation Commission/Taunton River Stewardship Council
- Paul Tappen Columbia Gas
- Ron Ladue Roadways Superintendent
- Carl MacDermott, III Lt., Police Dept.
- Marilyn MacDonald Chair, Conservation Commission
- Thomas Levy Chief, Fire Dept.
- Michael Dutton Town Manager



Workshop Process



Goals for the Town's MVP Plan – Created during Workshop #1

Goal No. 1: Successful completion of the CRB process to become designated as a "Municipal Vulnerability Preparedness Program Climate Community," or "MVP Climate Community", eligible for future MVP Action Grants.

Goal No. 2: Educate Public about climate change vulnerabilities in Bridgewater and develop comprehensive communication plan, including evaluation of evacuation plan(s).

Goal No. 3: Minimize impacts to public infrastructure from climate change, especially water supply wells, wastewater treatment plant, and bridges.

Goal No. 4: Evaluate Public Safety relative to environmental impacts and waterborne diseases

Goal No. 5: Improve Stormwater Management through Green Infrastructure and coordination with MS4 efforts.



Characterize Hazards Identified in Workshop #1 Top Four Natural Hazards that will impact Bridgewater the Most as a Result of Climate Change

> Flooding Wind Winter Storms/Extreme Cold Drought/Extreme Heat



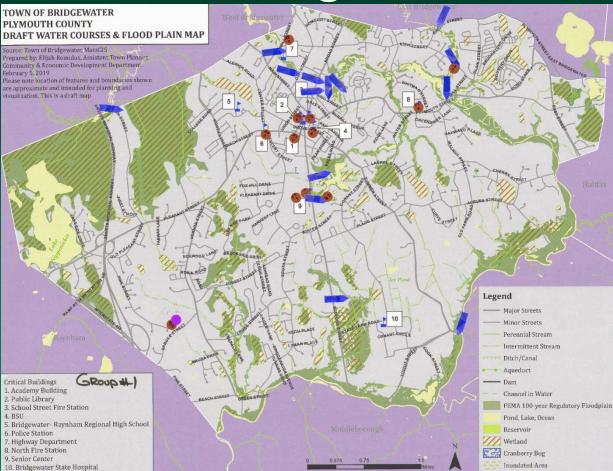
Step B & C: Characterize Hazards & Identify Community Vulnerabilities and Strengths







Identifying Bridgewater's Vulnerabilities and Strengths





Vulnerable Areas and Attributes identified in Workshop #1

INFRASTRUCTURAL	SOCIETAL	ENVIRONMENTAL
 Dams Bridges/Roads/Culverts Wastewater and Water Treatment Facilities Town Wells, Water Tanks and Water System Drainage System Shelter Buildings Electrical Distribution System Public Transportation Infrastructure/MBTA Station Zoning Regulations Telecommunications Fire Department Bridgewater Correctional Complex (incl. State Hospital) Transfer Station Solar Plant - ??? 	 Senior and Vulnerable Population Facilities and Housing Densely Populated Neighborhoods Roche Bros. Supermarket BSU Recreational Fields Intra-Town Communications 	 Stormwater Ordinance Existing Septic Systems within Flood Zone Farm Land Loss to Residential Development Old Pine Plantations/Aging Trees (Town Forest) Waterborne Diseases Sea Level Rise Wastewater Treatment Plant Town Wells/Water Supply Hockomock Swamp Wetlands Water Resources (Ponds, Lakes and Rivers) High Street Dam Removal

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Current Strengths and Assets identified in Workshop #1

INFRASTRUCTURAL	SOCIETAL	ENVIRONMENTAL
 Wastewater Treatment Plant Water Supply/Town Wells Shelter Buildings Zoning Ordinances Highway Department/Highway Barn MBTA Station 	 Senior and Vulnerable Population Facilities & Healthcare Facilities Vulnerable Population Assistance Programs Public Safety Roche Bros. Supermarket Open Space (Parks, Recreational Fields, Gold Course) Social Media Lucini Bus Service Emergency Staging??? 	 Stormwater Ordinance Existing Septic Systems within Flood Zone Farm Land Loss to Residential Development Old Pine Plantations/Aging Trees (Town Forest) Waterborne Diseases Sea Level Rise Wastewater Treatment Plant Town Wells/Water Supply Hockomock Swamp Wetlands Water Resources (Ponds, Lakes and Rivers) High Street Dam Removal



Development of Action Items

Step D: Identify & Prioritize Community Actions in Workshop #2



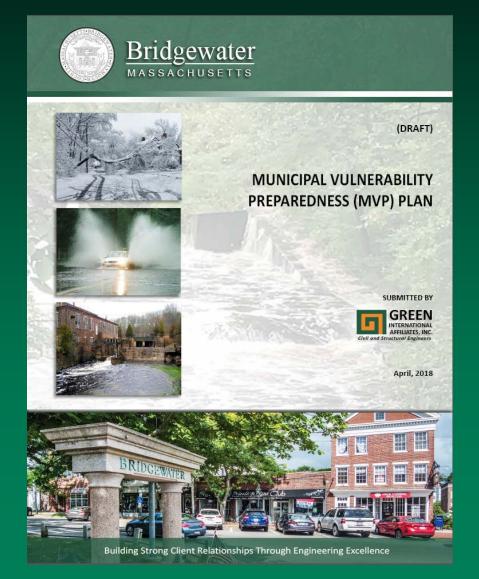


Development of Action Items

Priorities developed in Workshop #2 for Action Items

- Drainage/Flood Study to identify increased risk from climate change
- Public Safety Communication
- Wastewater Treatment Plant and Water Supply
- Power and access to Shelter/Evacuation Facilities
- Aging/Hazardous Trees





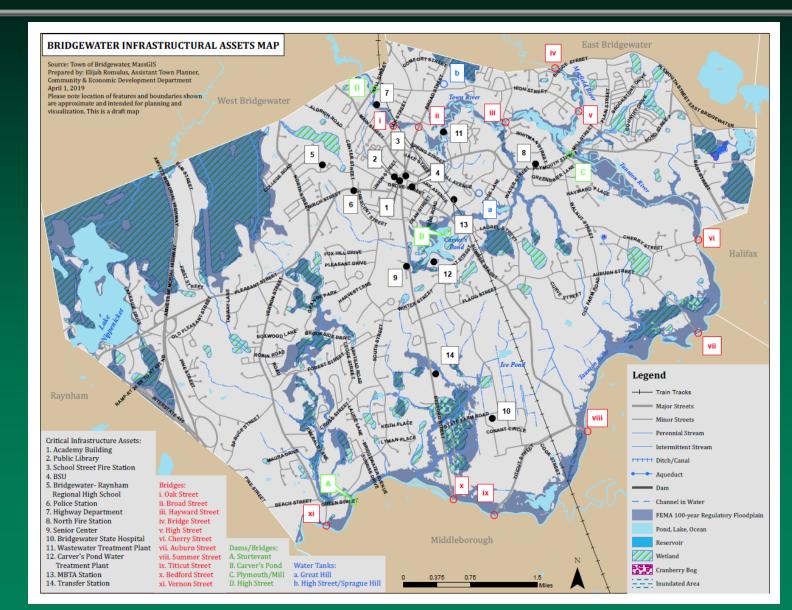




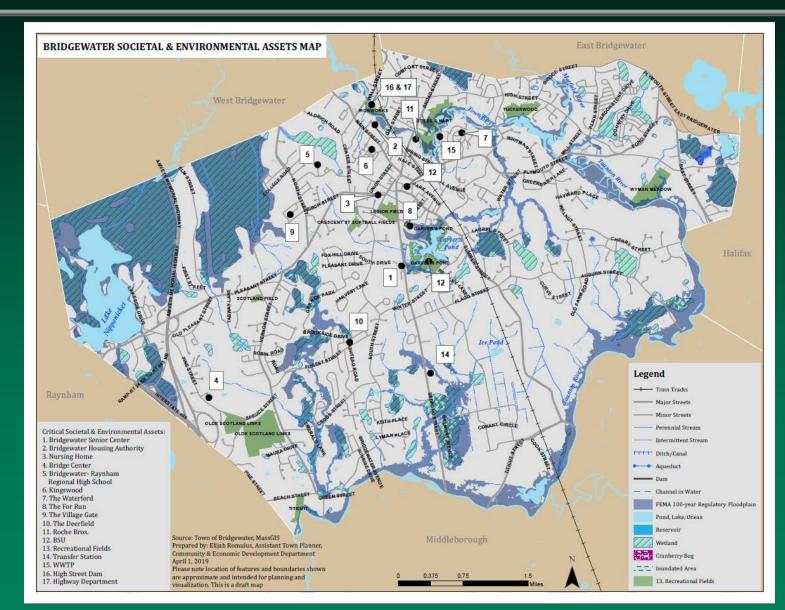
The risk of future flooding is uncertain until H&H modeling is performed with climate change precipitation projections.

Existing FEMA Hydraulic models can be run with EOEA climate change projection data to identify future flood risk.









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Goals established for the Town's MVP Plan

Goal No. 1: Identify Climate Change Vulnerabilities, considering Infrastructural, Societal and Environmental factors and Develop Action Steps to build the Town's Resilience to extreme weather-related conditions in the future based on EOEA climate change projections.

Goal No. 2: Develop an MVP Plan that satisfies the requirements of the MA EOEA, such that it receives approval and makes the Town Eligible for Future MVP Action Grants.

<u>Goal No. 3:</u> Develop an MVP Plan that compliments and builds upon the Town's previous conservation, recreation and revitalization efforts (existing Capital Improvement Plan, Bridgewater's Branding & Wayfinding Committee, Bridgewater Community Preservation Committee/CPA Plan, Comprehensive Master Plan Committee, Energy Committee, etc.).

Goal No. 4: Develop an MVP Plan that Minimizes Infrastructure Impacts from flood and other weatherrelated hazards

Goal No. 5: Develop an MVP plan that will encourage the Review and Upgrade of Bridgewater's current Zoning Regulations to prevent damage from flooding, current and future



Goals established for the Town's MVP Plan

- **Goal No. 6:** Develop an MVP Plan that improves Stormwater Management (SWM) in Bridgewater
- **Goal No. 7:** Review Emergency Management Plan with regards to potential hazards and vulnerable areas in Town, associated with climate change
- **Goal No. 8:** Develop an MVP Plan that will help Control Waterborne Diseases, resulting from potential increased precipitation and flooding.
- **Goal No. 9:** Develop an MVP Plan that will Promote Reduction of Bridgewater's Carbon Footprint
- **Goal No. 10:** Include Public Education Program on potential Climate Change Impacts in Bridgewater's MVP Plan. Educate Public about climate change vulnerabilities in Bridgewater and develop comprehensive communication plan, including evaluation of evacuation plan(s).



Step E: Determine the Overall Priority Actions

/lunicipal Vulnerability Preparedness (MVP) Plan yridgewater, Massachusetts 'he action steps have been prioritized in Table 3 as follows:						
	VP Priority	: 5 d5 follows.				
-	n MVP Priority		-			
	/P Priority					
Table 3: I Project	Recommended Action Steps to Impro	ove Resiliency Timeframe	to Climate Chan Responsible	ge in Bridgewat	ESTIMATED	
No.			ORGANIZATION	Funding Source	Соят	
1	Obtain Effective hydraulic computer models from FEMA and develop Town-wide Hydrologic and Hydraulic (H&H) models based on UMass climate change (CC) projections for the 2050's and 2090's.	2019	Engineering	MVP Action Grant*	\$25,000- \$50,000	
2	Develop a CC Resiliency Action Plan for the Wastewater Treatment Plant (WWTP) based on results of Project No. 1	2020	Wastewater	MVP Action Grant	\$15,000	
3	Develop a CC Resiliency Action Plan for the Town's water supply wells and treatment facilities based on results of Project No. 1	2020	Water	MVP Action Grant	\$20,000	
4	Review and update the Town's Stormwater Ordinance relative to CC Projections	2020	Planning	MVP Action Grant	\$5,000	
5	Review and update zoning requirements to address CC Resiliency	2020	Planning	MVP Action Grant	\$10,000	
6	Purchase and Install an emergency generator at the Senior Center and develop an Emergency Back-up Power Plan for other public facilities that serve vulnerable populations.	2019	Emergency Management	MVP Action Grant	\$25,000	
7	Develop a Town-wide emergency transport and food supply emergency action plan for vulnerable populations	2019	Emergency Management	MVP Action Grant	\$10,000	
8	Review Town evacuation plans and update emergency instructions for evacuation (incorporate them in Branding & Wayfinding strategy) based on CC	2019	Emergency Management	MVP Action Grant	\$10,000	

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Page 35

Municipal Vulnerability Preparedness (MVP) Plan

Bridgewater, Massachusetts

PROJECT NO.	MITIGATION ACTION	TIMEFRAME	RESPONSIBLE ORGANIZATION	Potential Funding Source	Estimated Cost
	projections and results of Project No. 1				
9	Improve public safety and emergency communication abilities with vulnerable population centers	2020	Emergency Management	MVP Action Grant	\$50,00
10	Develop a CC Resiliency Action Plan that incorporates nature- based solutions for Town parks and recreational areas.	2021	Planning and Conservation	MVP Action Grant	\$25,00
11	Develop a Hazard Tree Removal and Replacement plan (including the old pine plantation and Town forest)	2021	Planning and Conservation	MVP Action Grant	\$25,00
12	Protect agricultural land - Continue to implement Open Space and Recreation Plan 2017	2021	Planning and Conservation	MVP Action Grant	?
13	Establish a Floodplain and Stormwater Management Public Education Program based on results of Project No. 1.	2021	Planning and Conservation	MVP Action Grant	\$10,00
14	Develop a public education program for vulnerable populations relative to climate change, its effects and ways to build social resiliency.	2021	Planning and Emergency Management	MVP Action Grant	\$7,50
15	Develop a Culvert and Bridge Improvement Master Plan based on results of Projects No. 1 and No. 8	2020	DPW	MVP Action Grant	\$50,00
16	High Street Dam Removal and Bridge Replacement	2020	DPW	MVP Action Grant	?
17	Develop a Landlord/Owner Communication Plan for multi- unit rental properties (3-family and up) to establish direct lines of communication for natural hazard emergencies	2021	Emergency Management	MVP Action Grant	\$25,00

* MVP Action Grants typically include a Town cost share commitment of 25%

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Jvil and Structural Engineer

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March 2019

Recommended Action Steps

Project No. 1

Obtain Effective hydraulic computer models from FEMA and develop Town-wide Hydrologic and Hydraulic (H&H) models based on UMass climate change (CC) projections for the 2050's and 2090's.



Recommended Action Steps

Project No. 2: Develop a Climate Change Resiliency Action Plan for the Wastewater Treatment Plant (WWTP) based on results of Project No. 1

Project No. 3: Develop a CC Resiliency Action Plan for the Town's water supply wells and treatment facilities based on results of Project No. 1

<u>Project No. 4</u>: Review and update the Town's Stormwater Ordinance relative to Climate Change Projections

<u>Project No. 5:</u> Review and update zoning requirements to address Climate Change Resiliency



Recommended Action Steps

Project No. 6: Purchase and Install an emergency generator at the Senior Center and develop an Emergency Back-up Power Plan for other public facilities that serve vulnerable populations

Project No. 7: Develop a Town-wide emergency transport and food supply emergency action plan for vulnerable populations

Project No. 15: Develop a Culvert and Bridge Improvement Master Plan based on results of Projects No. 1 and No. 8



Project No. 16: High Street Dam Removal and Bridge Replacement

Recommended Action Steps

Project No. 10: Review Town evacuation plans and update emergency instructions for evacuation (incorporate them in Branding & Wayfinding strategy) based on CC projections and results of Project No. 1

Project No. 11: Improve public safety and emergency communication abilities with vulnerable population centers

Project No. 12: Develop a CC Resiliency Action Plan that incorporates nature-based solutions for Town parks and recreational areas



Recommended Action Steps

Project No. 13: Develop a Hazard Tree Removal and Replacement plan (including the old pine plantation and Town forest)

Project No. 14: Protect agricultural land -Continue to implement Open Space and Recreation Plan 2017

Project No. 15: Establish a Floodplain and Stormwater Management Public Education Program based on results of Project No. 1

Project No. 16: Develop a public education program for vulnerable populations relative to climate change, its effects and ways to build social resiliency



Recommended Action Steps

Project No. 17: Develop a Landlord/Owner Communication Plan for multi-unit rental properties (3-family and up) to establish direct lines of communication for natural hazard emergencies



Questions/Discussions







