Boston Region MPO Project Inclusion in MassDOT RIP

MPO REG ON	MUN C PAL TY PROPONENT	MASSDOT PRO ECT NUMBER FAPPL CABLE	MASSDOT D STR CT	PRO ECTDESCR PT ON	PURPOSE AND NEED	HAZARD #1 ADDRESSED	HAZARD #2 ADDRESSED	PRO ECTSCOPE	RIP PHASE	OTHER NOTES
Boston	Rockport	612737	4	ROCKPORT- ROADWAY RECONSTRUCTION OF ROUTE 127A	Roadway elevation to mitigate sunny-day flooding with replacement or widening of existing undersized culverts and addition of new culverts between Red Fox Lane and Seaview Street.	Coastal Flooding and Sea Level Rise	Coastal Erosion		Improve	TFPC = \$12,061,329, may achieve 25% design in 2025 for FFY 2031 construct?
					Roadway elevation to mitigate sunny-day flooding which will lead to frequent inundation by 2030. Wintertime flooding often leads to ice floes					CZM grant award, major involvement from
Boston	lpswich	612738	4	IPSWICH- ARGILLA ROAD ROADWAY RECONSTRUCTION	being pushed up onto the roadway and creating a hazard. Primary thoroughfare towards Crane Beach.	Coastal Flooding and Sea Level Rise	Severe winter storms/ Nor'easters	Widening of culvert with elimination of old dam near to southern inlet. Reinforcement of roadway embankments.	Improve	Trustees of Reservations. Funded FFYs 2029 and 2030 of Boston Region TIP.
					Redacement of stone culuest near 1600 Reason Street in Washington			Town of Brookline recommends an engineering firm evaluate the culvert, estimate costs, and plan and design specs to replace the stratt community and ensure straff actionate \$250,000 in cost back in		
Boston	Brookline		6	BROOKLINE- TANNER BROOK DRAIN CULVERT REPLACEMENT	Square. Culvert had partially collapsed under MBTA Green Line C Branch in 2021, which required emergency repairs conducted via night work.	Flooding from Precipitation		2021 for a structural liner, to be installed after mortaring the stone culvert walk to smooth out.	Plan	\$750,000 local estimate. Town has photos and reports available.
					Replacement of stone drainage culvert near UA building at Brookline High			Evaluation of culvert to determine possible improvements.		
Denter	Denaldara				School. Undersized stone culvert narrows in width near the Brookline Hills stop on the MBTA Green Line D Branch. Town inspection via CCTV adjusted lange storage in deale and believe several lange storage.	Floring from Providenting		Rehabilitation of existing drain preferred, but recent renovation of MBTA Brookline Hills station may preclude option. Town proposes investigations instruction of a solid drain		Tous has adapted and sounds an allebia
Boston	Brookine		0	BROOKLINE- TAPPAN STREET DRAIN TO VILLAGE BROOK DRAIN	Improve the existing Riverworks MBTA Station to ensure public accessibility via relocation consistent with the City of I yan's make to	Flooding from Precipitation		investigating installation of a relief drain.	Han	Refer to Reconnecting Communities and
					redevelop the area to create a site more resilient to flooding from the Saugus River. New planned station location will be moved further inland					Neighborhoods grant application from City of Lynn.
					and designed in such a way to accomodate replacement of the Saugus River Drawbridge (MBTA asset). The current station is at-grade and			Elminate current Riverworks MBTA station and replace with a fully accessible public commuter rail station with pedestrian connections in		MBTA may be interested in rehabilitation of
Boston	Lynn		4	LTNN- RIVERWORKS COMMUTER RAIL STATION	Whin a 100 year tood zone. The Tucker's Wharf Seawall is a high-priority asset for the Town of Marhibehard due to noirs issues around initi damane and sinkholes. The	Coastal Flooding and Sea Level Rise	Average and Extreme Temperatures	west Lynn.	Han	Saugus Draw Bridge in Interim (\$15,000,000).
					seawall abuts high density residential dwellings. The State Street Landing is a primary artery for the local fishing industry			This project would reinforce, repair, and improve the Tucker's Wharf		
Boston	Marblehead		4	MARBLEHEAD- STATE STREET LANDING AND MARBLEHEAD HARBORMASTER'S OFFICE (TUCKER'S WHARF)	and public access. Its seawall is currently subject to minor deterioration, section loss, cracking, scour, and undermining.	Coastal Flooding and Sea Level Rise	Severe winter storms/ Nor'easters	and State Street Landing seawalls to ensure continued access to sites in the town.	Maintain	
					Ocean Avenue Causeway between Gilbert Heights Road (Riverhead Beach) and Harbor Avenue in Marbiehead is at extreme risk of inundation denrife a relatively recent renderationation for moder via actuable built					
Boston	Marblehead		4	MARBLEHEAD- OCEAN AVENUE CAUSEWAY ELEVATION	upon a natural causeway to Marblehead Neck and is the primary east- west connection for two parts of town.	Coastal Flooding and Sea Level Rise	Severe winter storms/ Nor'easters	Elevate Ocean Avenue Causeway. Conduct public engagement to plan around resilience measures in the project area.	Plan	
								Reconstruction and elevation of seawalls with public access infrastructure and walkways to improve ADA accessibility while		
					This project provides for continued and expanded access by all			protecting water-dependent and industrial commerce. Installation of wave attenuating docks. Roadway widening and resurfacing for Community Dependent backling on protecting for attenuation.		Town has developed 75% design plans
Boston	Marblebearl		4	MARBLEHEND WARBLEHEND SHIFTARD PROJECT (PARKER'S TACHT TARD, MARBLEHEAD YACHT CLUB, CLIFF STREET BOAT YARD, COMMERCIAL STREET I ANDING)	only as a key cultural resource but also an economic resource for the Trawn of Marhiebeard	Coastal Flooring and Sea Level Rise	Severe winter storms/ Nor'easters	management and increases to open space/public realm at Hammond	Improve	Group and Collins, in partnership with Salem Sound Coastwatch
					The Front Beach and Fort Beach Lane seawalls are at high risk of inundation due to coastal flooding beyond the current system of stone					
					revetments and seawalls. Fort Sewall is a concrete seawall with a concrete/stone revetment with			Evaluation of and maintenance/rehabilitation for seawalls in the areas		
Boston	Marblehead		4	MARBLEHEAD- FRONT STREET, FORT BEACH, LITTLE HARBOR SEAWALLS	some voids and sections of limited mortared stone infli. Little Harbor seawall is a cast-in-place concrete seawall between bedrock outcrops.	Coastal Flooding and Sea Level Rise	Severe winter storms/ Nor'easters	Isted under this line item, including section repair and other drainage improvements and reinforcements as needed.	Maintain	Tour has seened MATCH for him way to the
					There is a confluence of traffic safety, traffic volume, local			Redevelopment of gravel squares near to Nantasket Beach for creation of additional beach facilities, recreational zones, and open		flow conversions along corridor. (\$850,000). 2023 guess was \$8,000,000. Town had
					redevelopment, and coastal flooding concerns along Nanasket Avenue and Hull Shore Drive near Hull Municipal Light Plant. The project area is at			space to improve drainage along the corridor. Reconfiguration of the roadway to allow for two-way travel and consolidation of lanes and		created a 100% design for the project recently but design was not brought to PRC, and would
Boston	Hull	S13089 (Refer to eSTIP Universe)	5	HULL- NANTASKET AVENUE REDESIGN FOR TWO-WAY CONVERSION	risk of coastal fooding that could dramatically sever access from large sections of town to mainland.	Coastal Flooding and Sea Level Rise	Coastal Erosion	road width to further free up land for improvements. General state-of- good-repair improvements throughout.	Improve	require substantial review and further design investment to do so.
					While not cited in the initial recommendation by the town regarding fooding at Russell Street elementary school, the culvert is just downstream of a more difficult to address culvert under L405 and may			Rehabilitation of existing culvert or replacement with larger asset. Ensures that bettleneck that is currently unstream would not be		Town bad indicated interest in separate
Boston	Littleton	613162 (Bundle Candidate)	3	LITTLETON- WIDENING/REHABILITATION OF BEAVER BROOK CULVERT AT GREAT ROAD/I-495 SB RAMPS	be suited to bundling in the existing culvert replacement/wildlife crossing Project 613162 also on Great Road.	Flooding from Precipitation	Changes in Groundwater/Groundwater Rise	knocked down to this asset should that one be resolved. Refer to other Littleton culvert project proposed for incorporation into this list.	Improve	correspondence for signal installation nearby on Great Road at Beaver Brook Road as well.
					The town has cited the culvert as undersized, leading to significant	• •		Town is interested in replacement of headwalls/culverts with wider		
Boston	Littleton		3	LITTLETON- WIDENING OF BEAVER BOOK CULVERT AT I-495/ROUTE 119 GREAT ROAD INTERCHANGE	foodplain elevation at upstream (south) side at Russell Street Elementary School and athletic fields. A municipal sewer pump station is also nearby.	Flooding from Precipitation	Changes in Groundwater/Groundwater Rise	asset to mitigate upstream flooding. Recommend incorporating culvert improvements into future resurfacing contract for I-495.	Improve	
					The project includes server also throughout the communities of Essex, branking, and discussions. Site 4, Road 133 crossing, is included in the other project project for lask in Essex. These crossings are common server and the server and the communities of t			Ineglication data is insufficient dramage. Requesting parmit level diagra and haability mayase. State 3: Ordeacco Read Crassing (growth): Poor condition crossing with some and failing breaken indicated or relation to instructure and the some and failing and some and the some and the point part of the some and the point of the some and the point Read of Read To Crassing (Essen): Pror assessments have Read and the Crossing (Essen): Pror assessments have requested. The Art of the Crossing (Essen): Pror assessments have requested. State 4: Lukin Street Crossing (Essen): Pror assessments have requested. State 4: Concord Street Crossing (Clossester): Hebror Readew street and Androccia State Protramage processing sort, and reages requested.		Pegicf influcts application from MAC2M and branch River Watersheb Association to a NAA C24 HIPPE Care.
Boston	Essex		4	ESSEX, GLOUCESTER, IPSWICH- GREAT MARSH BARRIERS RESTORATION PROJECT	Marsh. The project will also restore 230 acres of upstream wetlands.	Coastal Flooding and Sea Level Rise	Coastal Erosion	species passage, poor condition, and severe flow restrictions including	Improve	Funding request for \$4 million.
					Route 133 is a major regional transportation corridor at severe risk of sumy day and coastal flooding. It supports CATA Route 5 bus service as well as regional commod/wtb between loswich and Glog-rester/Rncknet					
					AADT is greater than the local population. Candidate for FFY 2024/25 PROTECT Discretionary Planning Grant in partnership with			Public engagement and preliminary planning work to determine series of alternatives for roadway modernization and reconstruction. Elevation		
Boston	Essex		4	ESSEX- ROUTE 133 CAUSEWAY RESILIENCE PLANNING AND DESIGN STUDY	Massuru (/Boston Region MPO. Planning activities to date were provided by technical assistance from the Boston Region MPO. This project is proposed for inclusion in the Birtrative Provided structure	Coastal Flooding and Sea Level Rise	Coastal Erosion	or causeway and bridge structures difficult to accomplish without considerable impacts to community.	Plan	Recently completed project 608596 did not address items.
Boston	MassDOT (Boston)	606728	6	BOSTON- BRIDGE REPLACEMENT B-16-365, STORROW DRIVE OVER BOWKER RAMPS	potential for ecological benefits resulting from the project and daylighting s of sections of the Muddy River.	Flooding from Precipitation	Average and Extreme Temperatures	Refer to the scope of work for Project 606728, currently funded within the MassDOT STIP.	Improve	
					The project limits are between the Boston city line and southern part of Withtrop Street along Route 145. Coastal flooding and sea level rise are compare at Diseased Street at Boston Finder Street at Street at Street			Investigate possibility of incorporation on the investor		
Boston	Winthrop	609446 (Deactivated)	6	WINTHROP- RECONSTRUCTION AND IMPROVEMENTS ON ROUTE 145 (PLEASANT	lead to inland flooding through green space and inundation of Lincoln and Pauline Streets as well.	Coastal Flooding and Sea J evel Rise	Severe winter storms/ Norieastere	corridor with new Project ID 613712 with eye towards culvert and drainage improvements.	Improve	Town has indicated priority is Main Street Project.
		,			The project limits are between the Boston city line and the northern part of Winthrop Street at Revere Street. Coastal flooding is a risk along			Investigate resilience improvements as part of broader project scope		
Boston	Winthrop	613712	6	WINTHROP- ROADWAY RECONSTRUCTION ON MAIN STREET, FROM WINTHROP STREET TO THE BOSTON CITY LINE	approaches to Belle Island Bridge (replaced in 2013) under MCFRM probability classes 4 through 7.	Coastal Flooding and Sea Level Rise	Severe winter storms/ Nor'easters	including reductions in impervious surface and drainage enhancements.		
				QUINCY- MERRYMOUNT PARKWAY AT FURNACE BROOK PARKWAY IMPROVEMENT, NCLUDING REPLACEMENT OF Q01015 MERRYMOUNT PARKWAY (ROUTE 3A) OVER	The replacement or Bridge QUOUS in Quincy, which carries Route 3A over Blacks Creek, will ameliorate coastal flood and storm surge concerns that are particularly present during incidences of severe					City of Quincy may be pursing PROTECT discretionary grant during current application
Boston	Quincy		6	BLACKS CREEK	fooding, including MCFRM Probability Classes 4-7.	Coastal Flooding and Sea Level Rise	Severe winter storms/ Nor'easters	Bridge replacement to maintain continued access along Route 3A.	Improve	window. Listed in eSTIP Universe and Boston Region
					This project will improve the condition and capacity of the culvert that conveys Earle Brook to Lake Pearl underneath Brute 140 (Frankin					In Wrentham MVP. More information on the orpiect can be found here:
Boston	Wrentham			WRENTHAM- IMPROVEMENTS TO ROUTE 140 AND EAGLE DAM	Street) at Pendleton Road and Eagle Lane. The project would also remove Eagle Dam.	Changes in Groundwater/Groundwater Rise	Flooding from Precipitation	Bridge/culvert rehabilitation, removal of Eagle Dam, potential reduction in impervious surfaces along the roadway.	Improve	https://www.wrentham.gov/233/Eagle-Dam- Feasibilty-Study.
								Flood mitigation activities include a series of improvements and		Reflects an August 2024 August Redistribution
Boston	MBTA (Regionwide)	\$13012	3, 4, 5, 6	MBTA- SYSTEMWIDE FLOOD MITIGATION	series of Flood Mitgation line items under the MBTA's Reliability/Modernization activities in its Capital Investment Plan (CIP)	Coastal Flooding and Sea Level Rise	Flooding from Precipitation	to bolster the resilience of assets in the face of storm surge, precipitation, and sea level rise.	Maintain	MBTA. This change was made under Amendment 13 to the FFYs 2024–28 TIP
					Numerous areas in the Meadow Brook Watershed have been subject to repeated and catastrophic flooding, including sectors of the watershed have to sky commonly assist including sectors of the watershed have been commonly assist including sectors of the watershed to be an experimental sectors and the sectors of the sec			Datage improvements along multiple roadways as indicated in the		2021 cost estimate for ful buildont was \$60M, build obverably can start incrementary in aneas lower in the watershed. Refer to documents from the town below. 2016 Resort FINAL_2022-460 and 2016 Membring (18-11-2023 polic and
Boston	Norwood		6	NORWOOD- COMPREHENSIVE MEADOW BROOK DRAINAGE IMPROVEMENTS	Office, two MBTA commuter rail stations, and roadways that serve as primary evacuation routes are also impacted.	Flooding from Precipitation	Changes in Groundwater/Groundwater Rise	of concern are Nahatan Street, Washington Street, and Route 1A (Walpole Street and Upland Road).	Improve	

								This project would extend a partial revetment recently deployed under		
					Beach Street and other nearby roadways, which support access to			a FEMA Public Assistance Grant out towards a culvert under Beach		
					nearby homes and key seasonal tourism resources and a sewer pump			Street. The extension would follow the same design as the pilot already	r .	Work is a continuation of a FEMA Public
Boston	Rockport		4	ROCKPORT- BACK BEACH REVETMENT EXTENSION	station, are at risk of coastal flooding and sea level rise.	Coastal Flooding and Sea Level Rise	Coastal Erosion	developed along the roadway.	Improve	Assisstance Grant.
								The project would study and evaluate the potential for raising the		
								roadway through the marsh near Lobiolty Cove/Pebble Beach and		
					Homes along Penzance Road are at risk to being cut off in severe			clearing the marsh of invasive species. Specific improvements would		
					weather events. The nearby marsh is insufficient to accomodate flood			target improved emergency access, a restoration of flood storage		
				ROCKPORT- PENZANCE ROAD MARSH RESTORATION AND TRANSPORTATION	storage needs. The marsh has issues with invasive species, namely			capacity and ecological function, and a study of managed retreat for		Town has plans and mockups available for
Boston	Rockport		4	ACCESS	Phragmites australis.	Coastal Flooding and Sea Level Rise	Severe winter storms/ Nor'easters	this repetitive-loss area.	Plan	MassDOT staff to review.
								Under Anting 40A of the Desilies Many Disp the MOTA will exerting a		
								Under Action 1UA of the ResilientMass Plan, the MBTA will conduct a		
								Vunerability Assessment of Critical Locations Across the Commuter		
								Rail System (esp. Historical nood locations) and assess the		
								vonerability of all 5 major Commuter Rail Pacifies. This will include the		
								completion of the Gabot Faird Vulnerability Assessment and completion		
								the Bur Modernization Program)		
								and boarmout measure rogramy.		
								The MPTA place to request EV 24-25 PROTECT funding to support		
					The MRTA's Climate Change Vulnerability Assessments and Adaptation			Climate Change Vulnerability Assessments (CCVAs) and associated		
					Planning program availuates the impacts of climate change and source			regiliency and adaptation planning work at six locations: the Lynn Bur		
					weather events on facilities and systems across all modes and the			Maintenance Garage the Felsway Bus Garage the Everett Bus		
					development of adaptation strategies, programs, and procedures to			Maintenance Facility the Charlestreen Bus Facility the Albany Street		MRTA PROTECT Grant candidate Listed in
Boston	MBTA (Boston Everett Lynn)	POS80 (MRTA CIP ID)	4.6	MRTA: CLIMATE CHANGE VILL NERABILITY ASSESSMENTS AND ADAPTATION	address these threats	Coastal Flooding and Sea Level Rise	Elonding from Precipitation	Bus Garage, and the Southamoton Bus Maintenance Facility	Plan	the MBTA CIP on Page 121
			-1							
								Under Action 10C of the ResilientMass Plan, the MBTA is working on		
								conceptual designs for flood protection of the Alewife Storage Tracks		
								and the Airport Portal. The program will also upgrade track dewatering		
								pump rooms. By protecting portals, the MBTA is seeking to keep		
								coastal flood water out. Improving the pump rooms that handle		
								everyday water on the tracks will help mitigate flooding internally.		
								The next steps in this program will be addressing the D Street Portal or	n	
					The MBTA's Systemwide Tunnel Flood Mitigation Program provides			the Silver Line in the Seaport (designing flood protection), and		
					planning, training, and infrastructure improvements to improve tunnel			addressing flood protection for the MBTA's lowest critical flood		
					resilience against flood exposures due to increased storm surge,			locations (especially the ones exposed to coastal flooding in the near		MBTA PROTECT Grant candidate. Listed in
Boston	MBTA (Boston, Cambridge)	P0912 (MBTA CIP ID)	6	MBTA- SYSTEMWIDE TUNNEL FLOOD MITIGATION PROGRAM	precipitation, and sea level rise.	Coastal Flooding and Sea Level Rise	Flooding from Precipitation	term), such as vent shafts, manholes, emergency egresses, etc.	Improve	the MBTA CIP on Page 62.
					The project would improve the public realm, mobility, connectivity, safety,					
					and climate resiliency throughout the Kosciuszko Circle/Morrissey					
					Boulevard area for the City of Boston and other communities in the			A planning study that includes the finalization of a preferred alternative		MassDOT PROTECT Planning Grant
Boston	MassDOT (Boston)	NA	6	MASSDOT-BOSTON- MORRISSEY BOULEVARD PLANNING STUDY	surrounding region.	Coastal Flooding and Sea Level Rise	Coastal Erosion	and the development of conceptual design.	Plan	Candidate
								The Blue Hill Avenue Project's multimodal corridor redesign will create		
								more than 2 acres of space for new green infrastructure to treat		
								stormwater and expand the tree canopy with around 150 new trees in		
								a neignborhood that experiences extreme heat and a lack of shade in		
								the summer.		
								I his work will be conducted as part of the broader project, which will		Church Province COOTECT Construction and
								improve air quaixy along the comport through reduced transportation-		City of Boston PROTECT Construction grant
Boston	Boston		0	BUSTON- BLUE HILL AVENUE TRANSPORTATION REDESIGN		Average and Extreme Temperatures		related emissions by investing in bus transit priority.	improve	candidate.

Abbreviations

AADT = Annual Average Daily Traffic. ADA = Americans with Disabilities Act. CATA = Cape Ann Transportation Authority. CCTV = Closed Circuit Television. CIP = MBTA Capital Investment Plan. MBTA = Massachusetts Bay Transportation Authority. MCFRM = Massachusetts Coastal Flood Risk Model. MPO = Metropolitan Planning Organization. NA = not applicable. PROTECT = Promoting Resilient Operations for Transformative, Efficient, and Cost-saving Transportation Program. RIP = Resilience Improvement Plan. STIP = Statewide Transportation Improvement Program.