

**Massport Update to Winthrop Town Council:
Boston Logan International Airport
Runway 9-27 Safety Area Improvements Project
& Residential Sound Insulation Pilot Program**

October 21, 2025



Runway 9-27 Safety Area Improvements Project

Boston Logan International Airport: Runway 9-27 Safety Area Improvements Project



FAA has mandated Massport to bring RW 9-27 RSA up to current federal safety standards

Background

- The RW 27 approach end was last enhanced in 1992 with the construction of an Inclined Safety Area (ISA)
- New technologies allow even closer adherence to FAA safety standards while further minimizing environmental impacts

Project Purpose

- Increase safety for aircraft and their passengers in emergency situations by enhancing the Runway 27 end safety area consistent with FAA requirements

Existing RSA Conditions

- The approach (east) end of Runway 27 does not meet FAA design standards for Runway Safety Area (RSA) undershoot or RSA overrun criteria. The Runway 9 end safety area is in full compliance, and no further improvements are planned.
- The ISA is 500-feet wide with a length of 150-feet along centerline
- A standard RSA overrun would be 1000-feet long
- A standard RSA undershoot area would be 600-feet long

The Runway 27 Safety Area Improvements project will enhance the safety area consistent with FAA standards

- This is a required FAA safety project that does not extend the runway or change the operational capacity of the runway

Project Scope:

- Construct a pile supported deck over Boston Harbor to extend the runway safety area (RSA) to a length of 650' from the runway threshold with an engineered materials arresting system (EMAS) within the new RSA footprint
- Construct emergency access ramps on either side of the deck



The project includes installation of an EMAS on the pile supported deck

What is an EMAS?

- EMAS is a safety system consisting of lightweight crushable concrete blocks in the runway safety area that can safely slow an aircraft in an overrun situation
- Each EMAS is designed for the specific aircraft fleet utilizing the runway
- EMAS is an FAA-approved measure for achieving safety standards
- Massport currently has four EMAS – two at Logan and two at Worcester



Runway 27 Safety Area Improvements Project Environmental Permitting Overview

- ✓ • Boston Conservation Commission Complete (2025)
- ✓ • Massachusetts Environmental Policy Act (MEPA) review Complete (2021-2023)
- ✓ • National Environmental Policy Act (NEPA) Complete (2022-2023)
- ✓ • State & Federal permits/approvals received Complete (2023-2025)
 - Army Corps of Engineers
 - Section 404/401
 - Coastal Zone Management
 - Federal Consistency Review
 - Massachusetts Department of Environmental Protection
 - 401 Water Quality Certification
 - Waterways/Chapter 91
- Construction 2025 - 2026

Runway 27 Safety Area Improvements Project Schedule

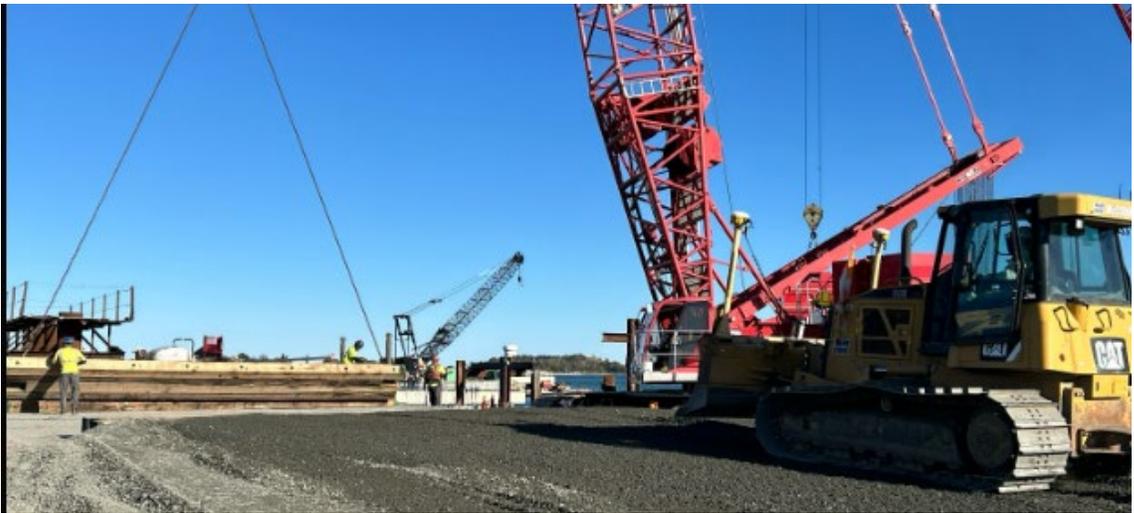
Milestones:

- Year 1 construction started September 2, 2025. Runway 9-27 to reopen November 16, 2025
- Year 2 is scheduled to start after July 1, 2026 (schedule to be determined late 2025)
- Both construction years require the closure of Runway 9-27 for 75 calendar days
- Construction will be complete in Fall 2026
- Note: Due to environmental requirements, work cannot commence until after July 1 for in-water work

Construction Photos



Construction Photos

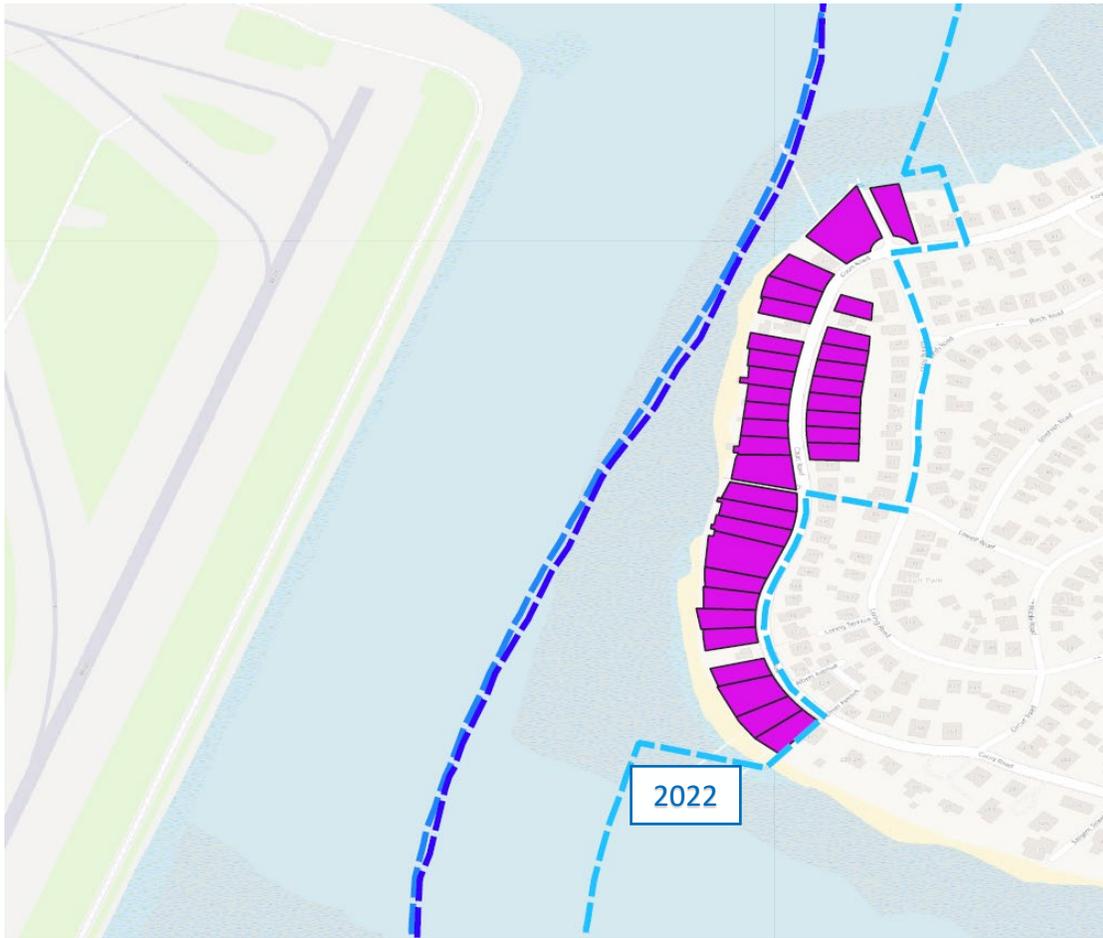


Residential Sound Insulation Pilot Program

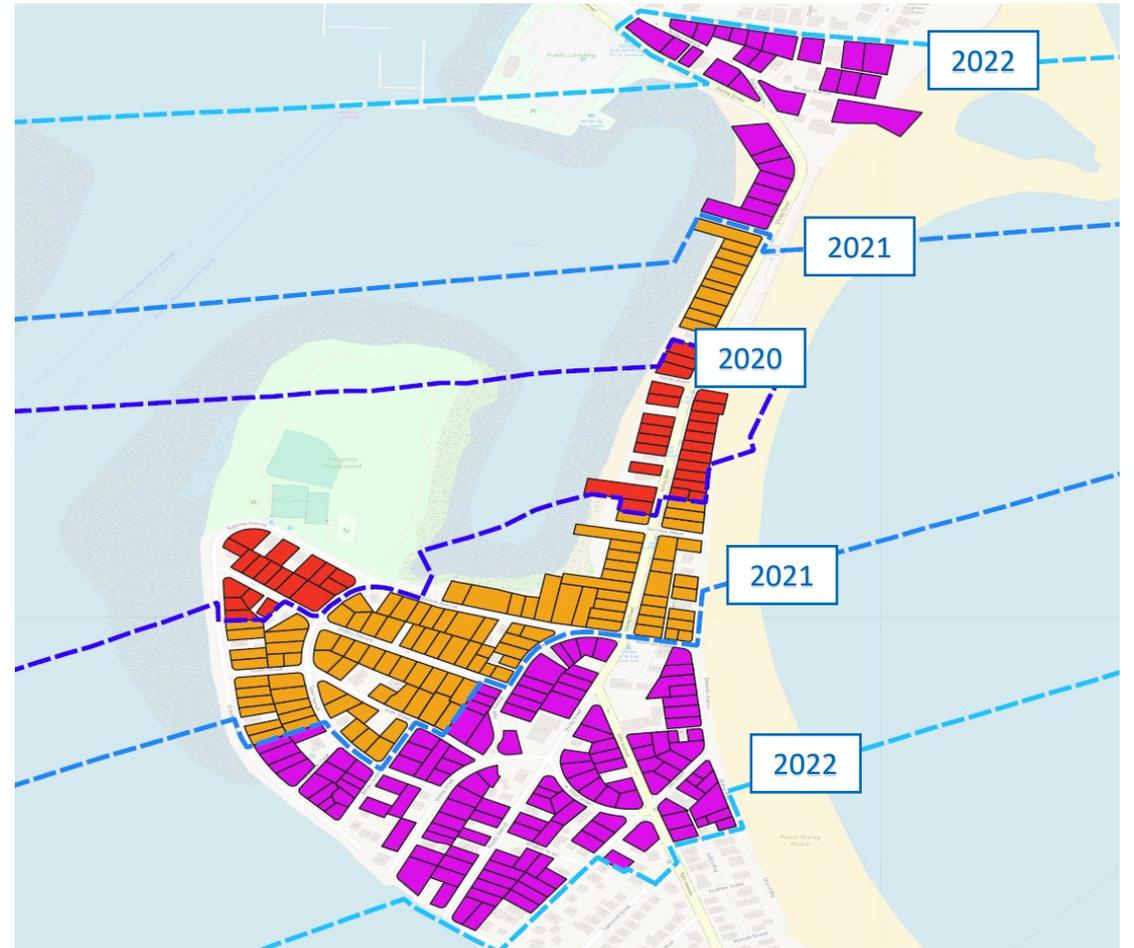
Residential Sound Insulation Program Update

- In 2020, the FAA determined that homes treated prior to 1993 are eligible for sound insulation
- Massport submitted a proposal and received FAA approval to begin the program
- HVAC upgrades are now included as a treatment option for all eligible homes
 - Earlier phases of the program only allowed homeowner-purchased, in-wall AC units to be installed
- Jones Payne Group was selected as the prime consultant to lead the sound insulation program in 2022
- An initial Pilot Program was developed to treat 10 homes - 5 in Winthrop and 5 in Revere
 - Construction completed in May 2025
- East Boston Pilot construction is estimated to start in Fall of 2026
- Additional Winthrop homes are being designed for future phases
 - Currently developing a backlog of eligible homes to expediate the design/bid process
 - Eventually expand program to treat 60 homes per year
- To reflect any change in Logan's noise environment, Massport is submitting noise exposure maps to the FAA more frequently and is now preparing a map based on 2024 data

Potentially Eligible Properties



Court Road



Point Shirley



*As of the 2022 Noise Exposure Map, Winthrop has approximately 351 Potentially Eligible Properties

Current Program Status in Winthrop

- Massport Consultant, Jones Payne Group, will continue conducting home assessment visits in Winthrop at potentially eligible homes
 - Potential eligibility notifications were sent to homeowners in early 2025
 - RSIP Winthrop Community Workshop was held on March 25, 2025
- Acoustical pre-testing will occur at 18-20 selected homes in Winthrop over the next few months
- Design of 30 Winthrop homes will begin in December 2025
- 2 homes in Winthrop will be treated in 1st quarter of 2026

Additional Information

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Massport Noise Abatement Office:

Call 617-561-3333 or visit <https://www.massport.com/environment/noise-abatement/logan-airport>

Residential Sound Insulation Program:

Call 617-561-3333, email rsip@massport.com or visit <https://loganrsip.massport.com>