

# **Boston Logan International Airport Runway 9-27 Safety Area Improvements Project Public Information Session**

July 15, 2025



# 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

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## 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

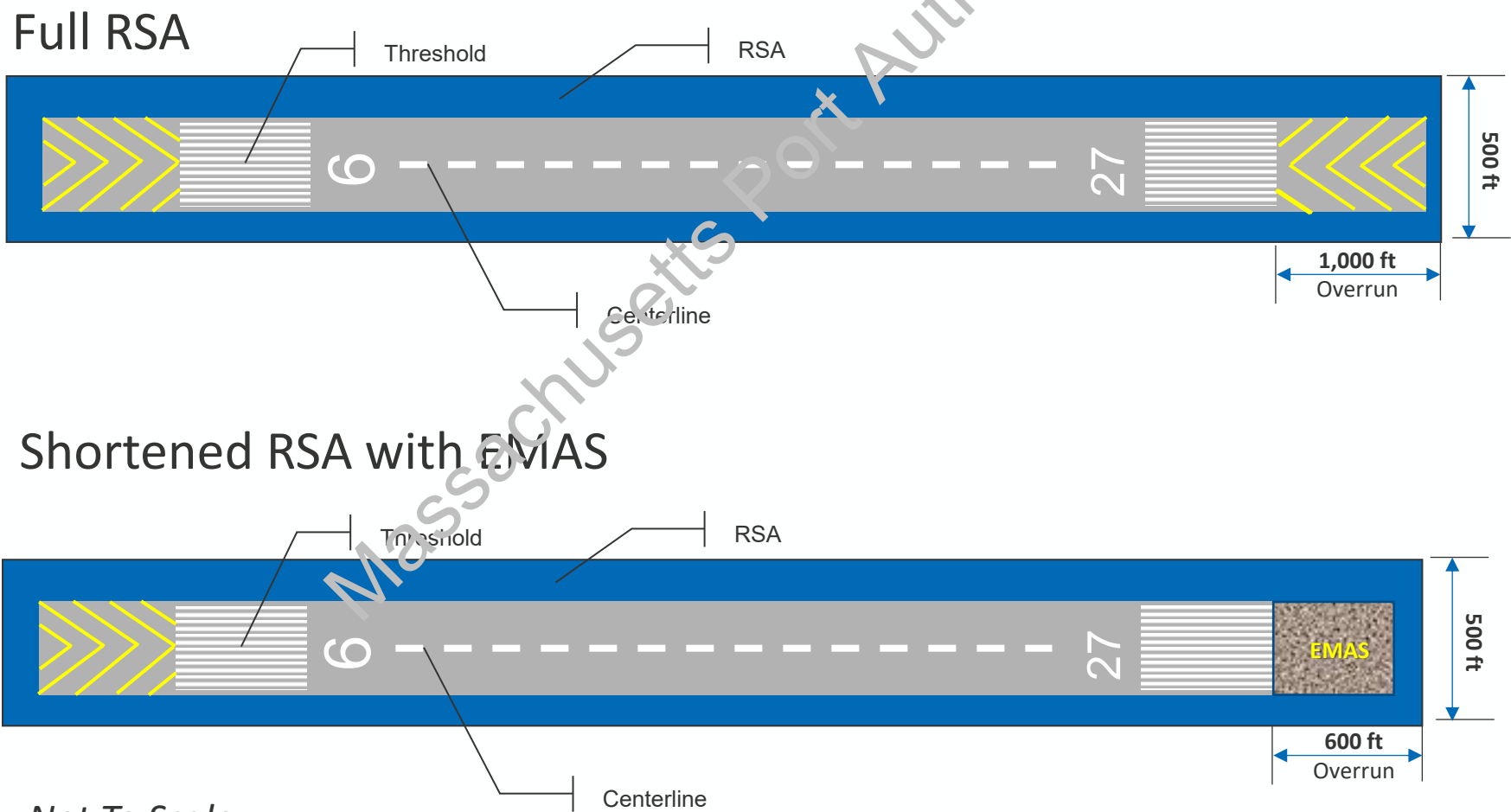
## Existing RSA Conditions

- 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



# Simplified FAA Runway and Safety Area Elements

RSAs surround the runway and are suitable for reducing risk of personal injury or damage to aircraft during an undershoot, overshoot, or excursion from the paved runway surface



# 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

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## 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

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- ✓ • Boston Conservation Commission Complete
- ✓ • Massachusetts Environmental Policy Act (MEPA) review Complete
- ✓ • National Environmental Policy Act (NEPA) Complete
- ✓ • Natural Heritage & Endangered Species Program Complete
- State & Federal permits/approvals anticipated August 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

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## Milestones:

- Year 1 construction is scheduled to start September 2, 2025
- Year 2 is scheduled to start after July 1, 2026 (likely similar schedule to 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



# Runway 27 Safety Area Improvements Construction Mitigation

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## Construction Mitigation Plan

- Muffle or otherwise lessen noise from truck back-up alarms within OSHA guidelines and other regulations
- Maximize daytime work, particularly noise producing activities. Noise-producing work restricted to the following hours:
  - 7am-7pm Monday through Friday, 8am-7pm Saturday; 9am-7pm Sunday
- Aim all lighting used for night operations away from communities
- Establish haul routes airside that will maximize distance from neighboring homes, particularly at night
- Haul materials during the day to the extent possible
- Prohibit trucks from using City of Boston streets to and from the airport
- All construction traffic will access the airport via dedicated truck routes - 90/93/1A and Coughlin Bypass Road
- Majority of precast concrete structure to be barged in via water

## Questions?

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**Massport Noise Abatement Office:**

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