

Logan Residential Sound Insulation East Boston Pilot Program

Homeowner Information Workshop

Thursday, February 13, 2025



INTRODUCTIONS

Welcome

- **Anthony Guerriero, Dept. Director of Community Relations and Federal Affairs, Massport**

Elected Officials

Massport Team Members:

- **Elizabeth Yusem, Project Manager**
- **Steve Sulprizio, Manager, Noise Abatement**
- **Flavio Leo, Director of Aviation Planning & Strategy**
- **Thomas Butler, Community Relations**
- **Michael Vatalaro, Community Relations**



INTRODUCTIONS

CONSULTANT TEAM

Program Manager: Jones Payne Architects & Planners, Inc. (Jones Payne)

- **John Hansen, Policy Manager**
- **Diane Carter, Project Manager**
- **James Cook, Outreach Lead**
- **Nadia Melim, Principal Architect**

Sub Consultants:

- **Rimkus/C3 – Mechanical and Electrical Designer**
- **HMMH – Acoustical Testing and Eligibility**
- **ATC – Hazardous Materials Lead**



Boston Logan Residential Sound Insulation Program (RSIP)

The Massachusetts Port Authority (Massport) working with the Federal Aviation Administration (FAA) initiated a voluntary, Residential Sound Insulation Program (RSIP) to mitigate the effects of aircraft noise for eligible properties surrounding Boston Logan International Airport (Logan).

FAA Program Objectives

- To help mitigate noise impacts for homes located within the FAA eligible area based on the Day-Night Level (DNL) 65 dB noise contour
- Pursuant to FAA required noise reduction goals and guidelines to:
- Achieve an interior noise level less than 45 DNL and;
- Reduce the existing interior noise levels by 5 dB

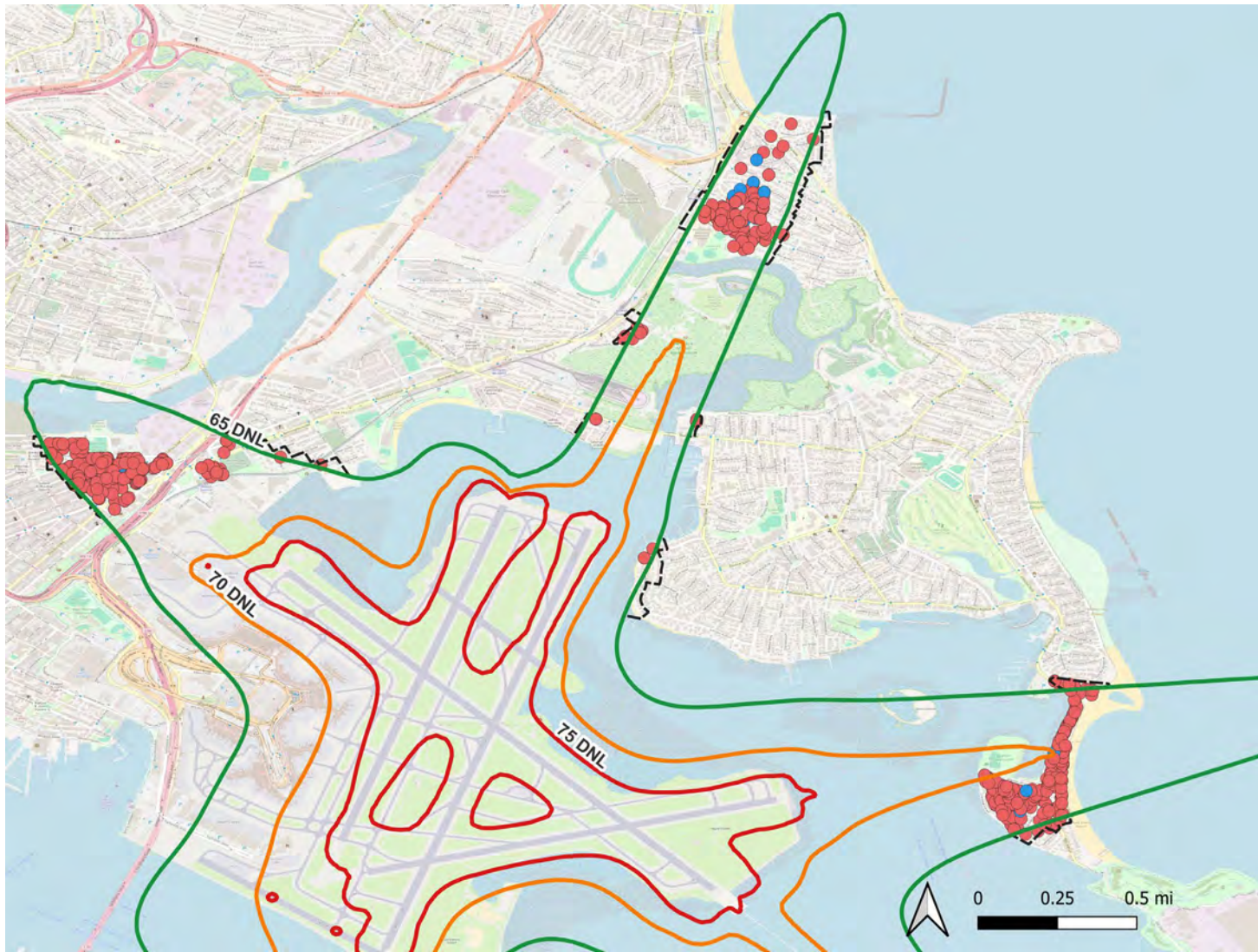
FAA Program Funding

- Funded through Airport Improvement Program
- 80% FAA Grant; 20% Massport
- No direct cost to Homeowner(s) for sound insulation treatments



Logan RSIP

PROJECT BOUNDARIES 2022 Contour

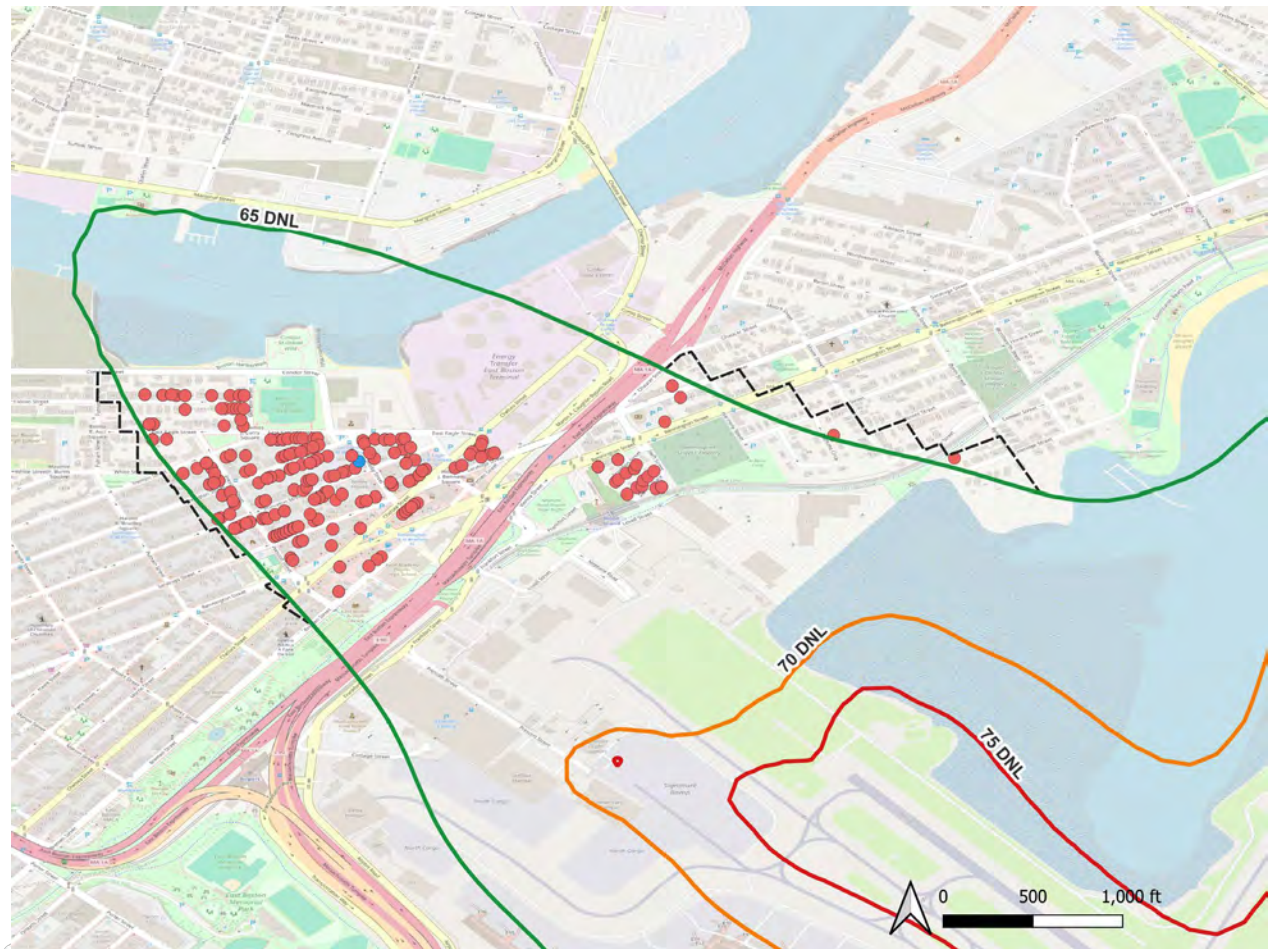


- = Previously insulated
- = Never insulated



Logan RSIP

EAST BOSTON – 2022 Contour



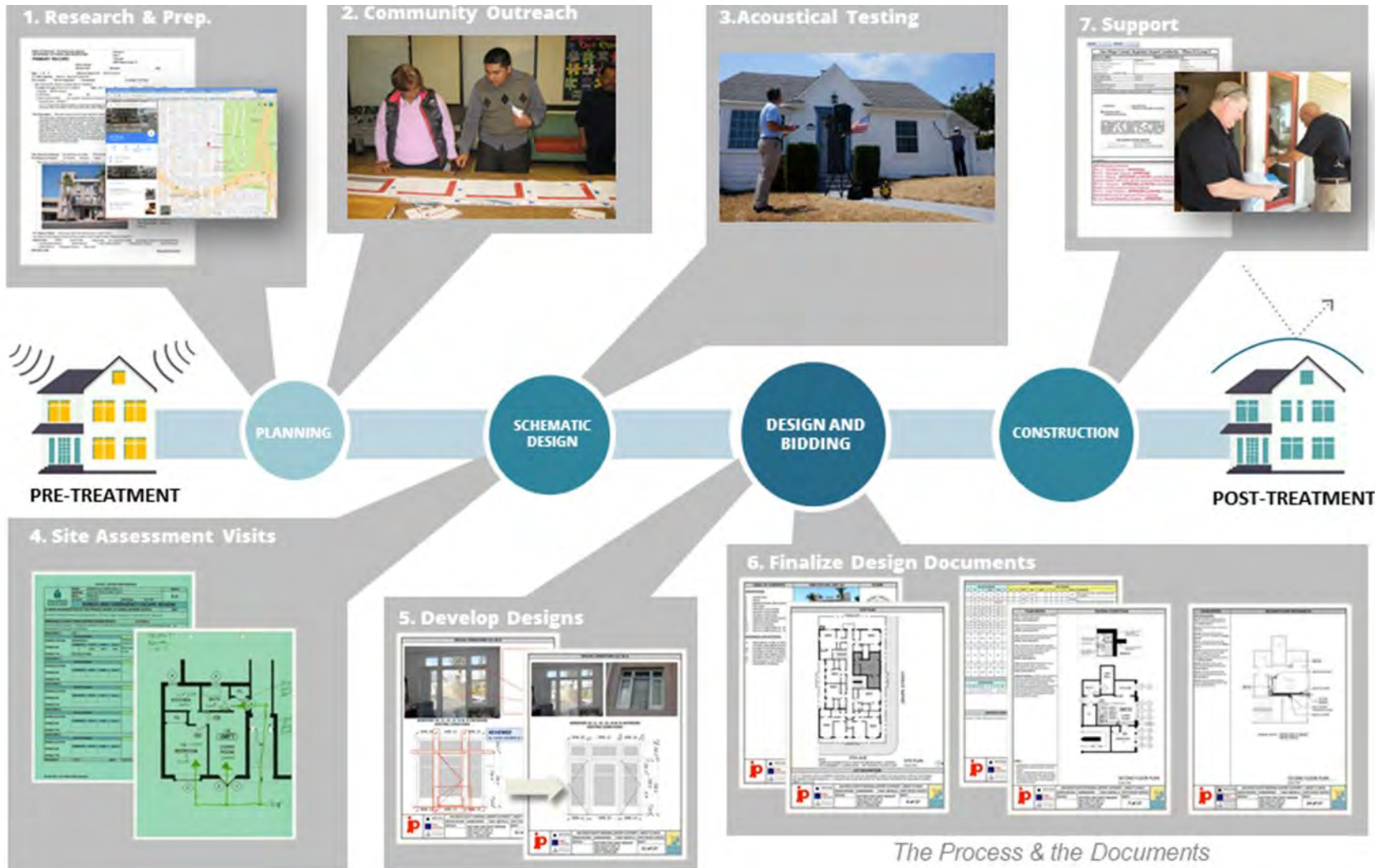
Combined Potential Eligibility 2020 – 2022 Contours	
Category	EAST BOSTON
1 ST Generation (Pre-1993)	414
Never Done	63
Total	477

Potential Neighborhoods:

- Eagle Hill
- Harborview
- Bayswater
- Belle Isle

● = Previously insulated
● = Never insulated

SOUND INSULATION PROCESS



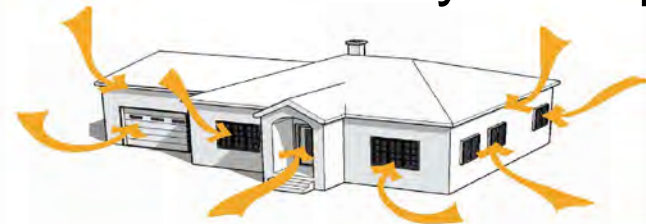
The process is a multi-step approach beginning with an onsite visit. Some homes will be selected for acoustical testing to determine if homes are eligible for treatment.

The Process & the Documents

WHO IS ELIGIBLE?

To be considered for participation in the Logan RSIP, a home must meet all the following criteria:

- Located within the current FAA-approved Noise Exposure Map
 - Is able to accommodate the improvements and passes an acoustical test within interior noise level above 45 day-night average sound level DNL
 - Either:
 - Sound insulated prior to 1993
- OR**
- Has never been sound insulated by Massport and was built before 1998



PROGRAM IMPLEMENTATION

Property Survey: Select 50 homes within the current noise contour in East Boston and volunteers for an initial review survey and possible acoustical testing

Based on the results of the property survey, the consultant team will **select 10 homes** to be designed and constructed for the East Boston Pilot Phase

Selection of homes will follow criteria that will be determined and approved by the FAA, including:

- Location within the noise contour (DNL) – starting at the highest noise level
- Typology (housing types)

Homes that are not selected for this phase will be assessed in future phases

SOUND INSULATION PROCESS

Next Steps (Spring 2025)

Property Surveys:

To understand the housing stock and determine the potential treatments needed, a home visit will be conducted by the RSIP Team. The Team representative to collect information regarding habitable rooms, including:

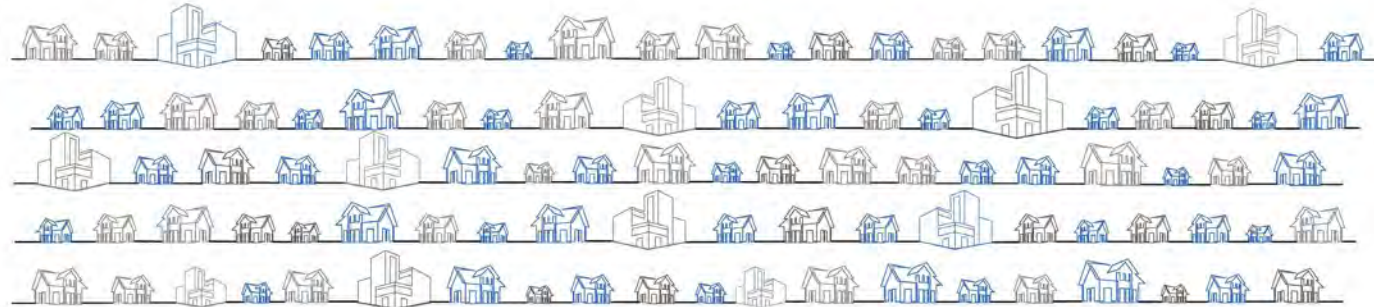
- Number and type of windows and doors
- Mail slots, pet doors, and fireplaces
- Ventilation systems
- Acoustic characteristics
- Interior ceiling and roof construction
- Potential conditions that may affect installation of windows and doors
- Identification of additions or renovations that occurred after 1998

SOUND INSULATION PROCESS

Next Steps (Spring 2025)

SOUND INSULATION PROGRAM - PROPERTY CATEGORIZATION PROCESS

Step 1: Conduct outreach and select program homes.



Step 2: Categorize homes with similar properties into groups.



Step 3: Acoustically test 10% of the homes in Step 2.



If 50% of the tested homes in a group have interior noise levels of 45 dB DNL or higher, all homes in that group qualify for sound insulation.
If 50% is not achieved, all homes in that group must be tested.

SOUND INSULATION PROCESS

Next Steps (Summer 2025)

FAA Policy for Treatment:

The home is **eligible for treatment** if the average noise level is **45 dB DNL or HIGHER**

Acoustical Testing Process:

A speaker will project “pink noise”, which sounds like static, at habitable rooms where the measurement is to be taken. The technician uses a sound level meter to measure the sound level inside and outside of the rooms. The measurements are then calculated to determine the entire home’s average interior noise level.



SOUND INSULATION PROCESS

HABITABLE SPACES

FAA DEFINES HABITABLE SPACES AS WHERE YOU “LIVE, SLEEP AND EAT”

Eligible for Treatment

- Living areas
- Dining areas
- Bedrooms
- Kitchens

Not Eligible for Treatment

- Bathrooms
- Laundry rooms
- Garages
- Utility areas
- Sunrooms
- Enclosed porches
- Storage areas

DRAFT PILOT PROJECT SCHEDULE

	2025				2026		
Milestone	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Outreach	■						
Acoustical Testing		■					
Design				■			
Bid & Award					■		
Construction						■	

FUTURE PHASES DEPENDENT UPON FAA FUNDING AND GUIDANCE



Should you have any questions or concerns, please contact:

Steve Sulprizio
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617-561-3333

Thank you again for participating and we look forward to continuing the conversation.



THANK YOU

Q & A Session

LoganRSIP.Massport.com

