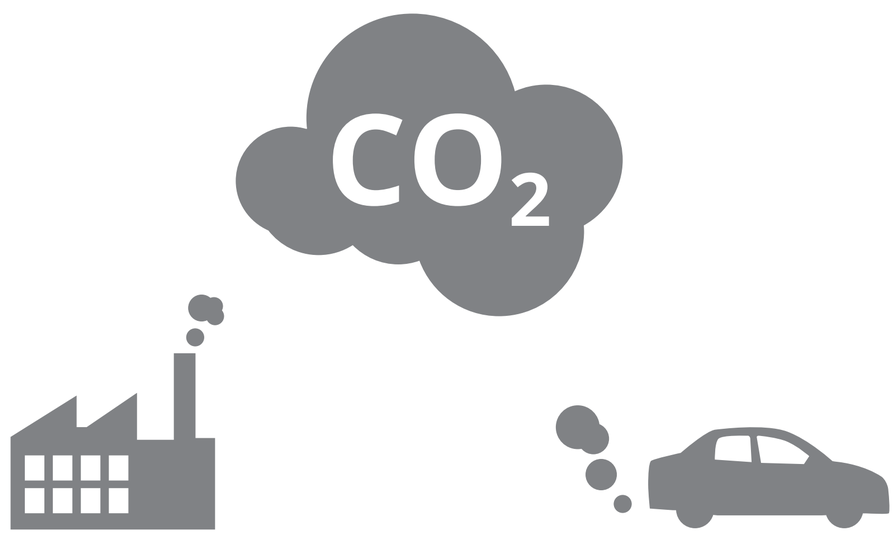
PLAN: Glover's Corner

Preserve. Enhance. Grow.

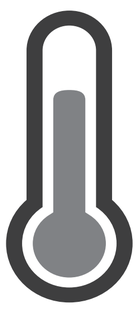
boston planning & development agency

Climate change will impact neighborhoods differently depending on local conditions.



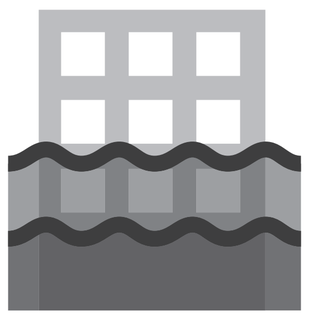
More Global Carbon Emissions

More Local Climate Change



More hot days

Increased extreme precipitation



Greater amounts of sea level rise

Some Impact to Glover's Corner

Boston currently has an average of 11 days over 90 degrees, which could increase to 90 days by 2070.

More Impact to Glover's Corner

By 2060 heavy rain events could regularly drop over 6 inches of rain in a 24 hour period; which is 20% more than what we see now.

Less Impact to Glover's Corner

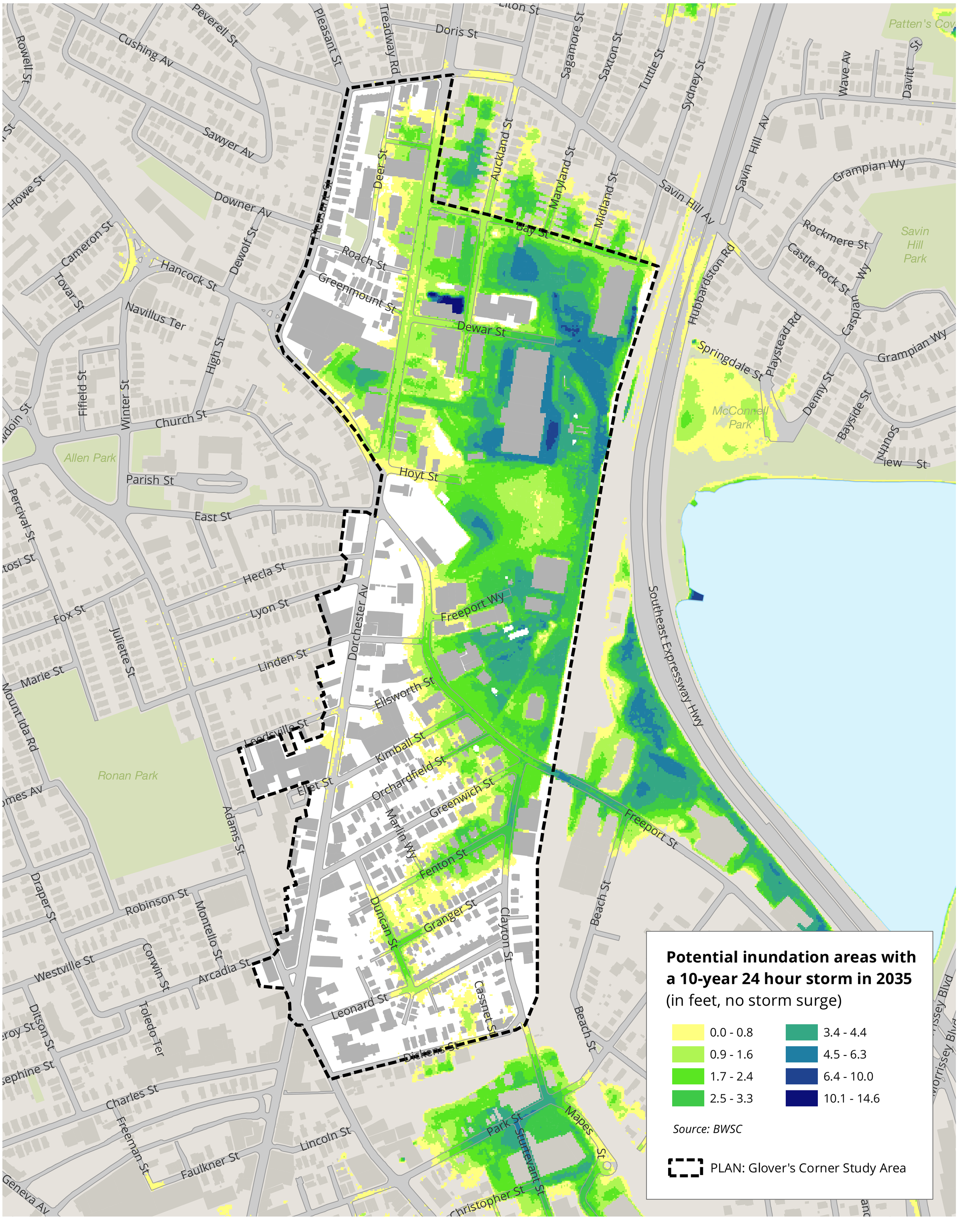
Sea levels in Boston Harbor have risen 9 inches in the past 100 years and are expected to rise another 40" by 2070.

PLAN: Glover's Corner

Preserve. Enhance. Grow.

boston planning & development agency

Stormwater Flooding from future heavy rain events can affect Glover Corner's low-lying areas.



Potential inundation areas with a 10-year 24 hour storm in 2035
(in feet, no storm surge)

0.0 - 0.8	3.4 - 4.4
0.9 - 1.6	4.5 - 6.3
1.7 - 2.4	6.4 - 10.0
2.5 - 3.3	10.1 - 14.6

Source: BWSC

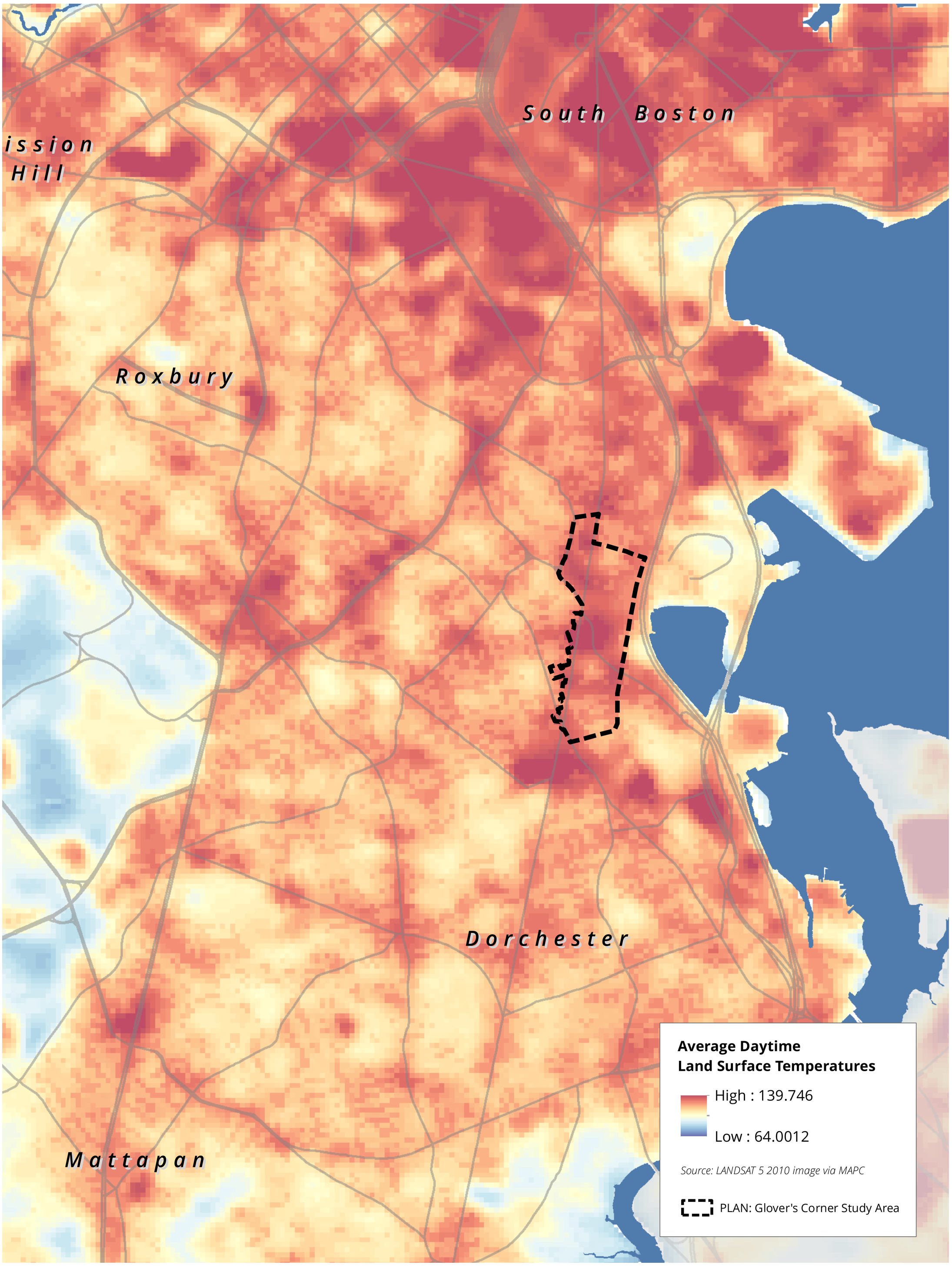
PLAN: Glover's Corner Study Area

PLAN: Glover's Corner

Preserve. Enhance. Grow.

boston planning & development agency

Urban Heat Islands are concentrated in areas with lots of pavement, like parking lots. Parks and tree canopy mitigate them.

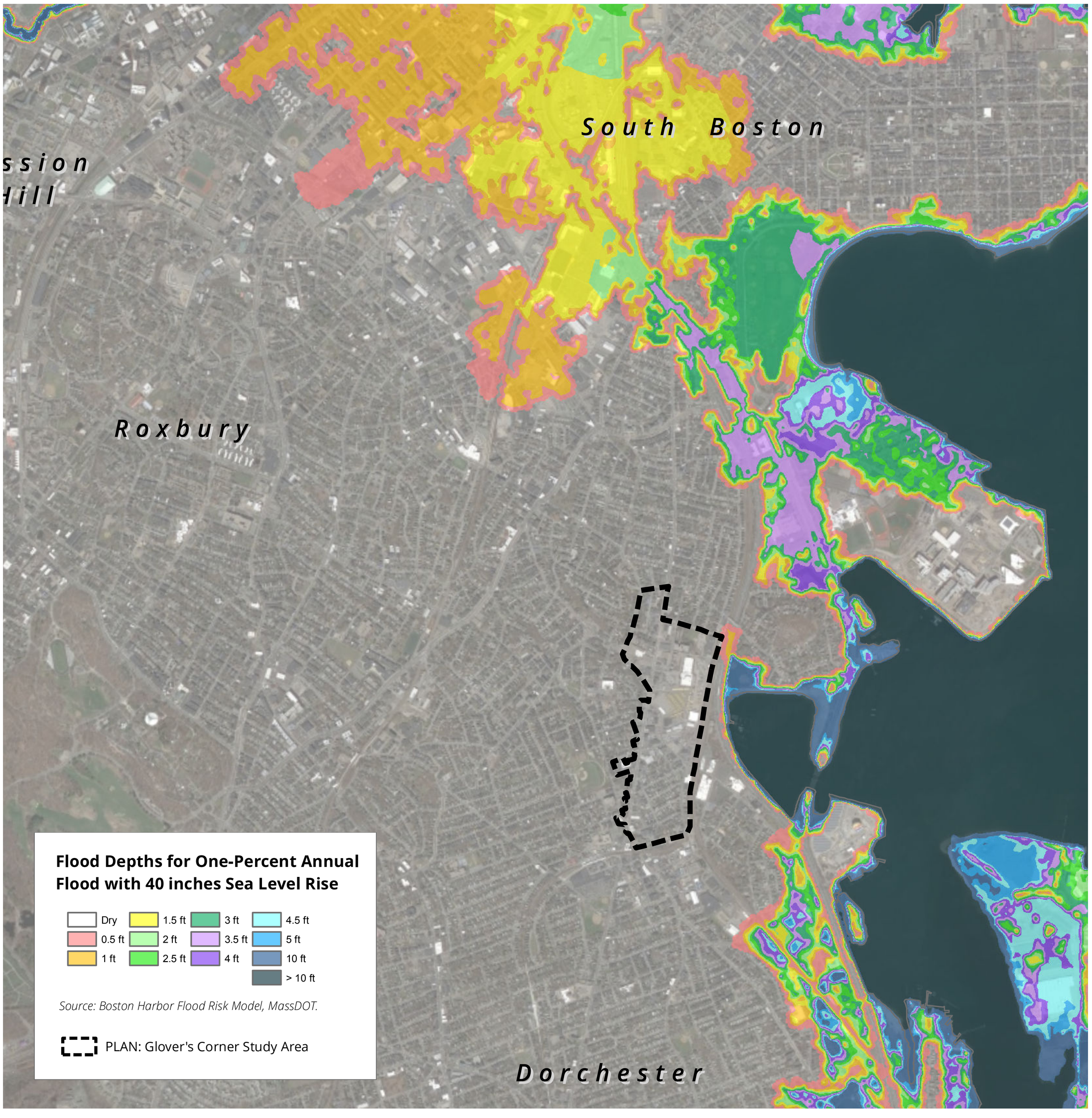


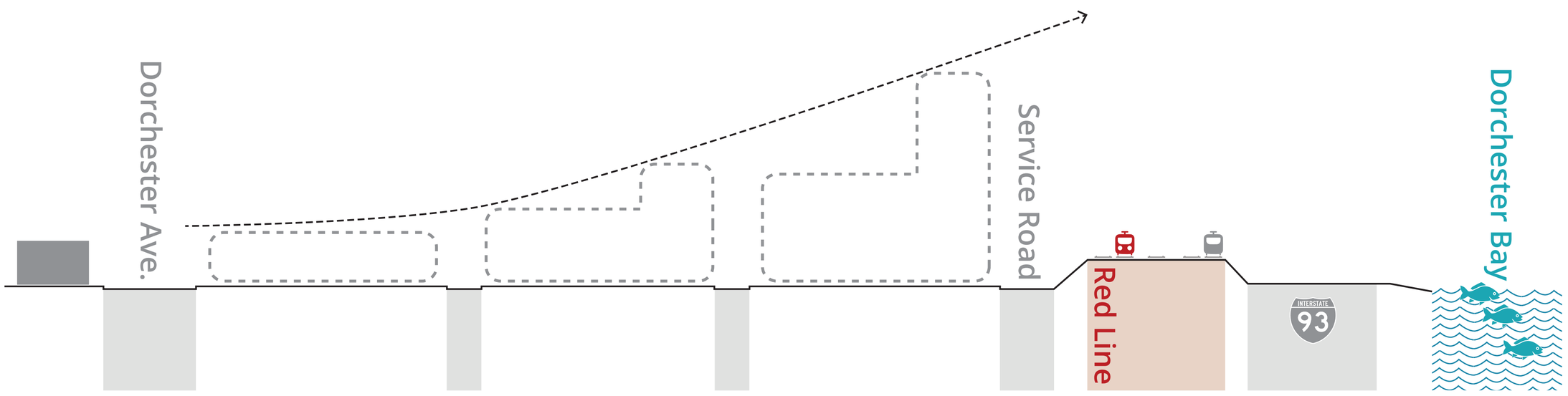
PLAN: Glover's Corner

Preserve. Enhance. Grow.

boston planning & development agency

Sea Level Rise is anticipated to have less impact than expected on Glover's Corner because of existing infrastructure berms along the Red Line.





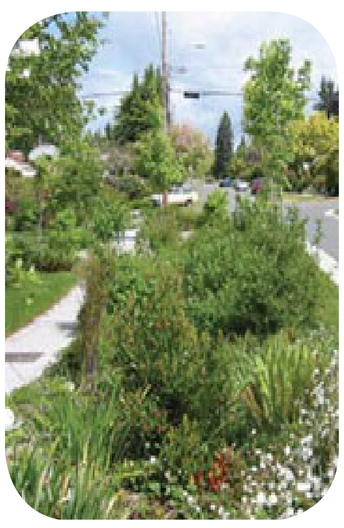
Conceptual section demonstrating how Red Line berm protects Glover's Corner from storm surges

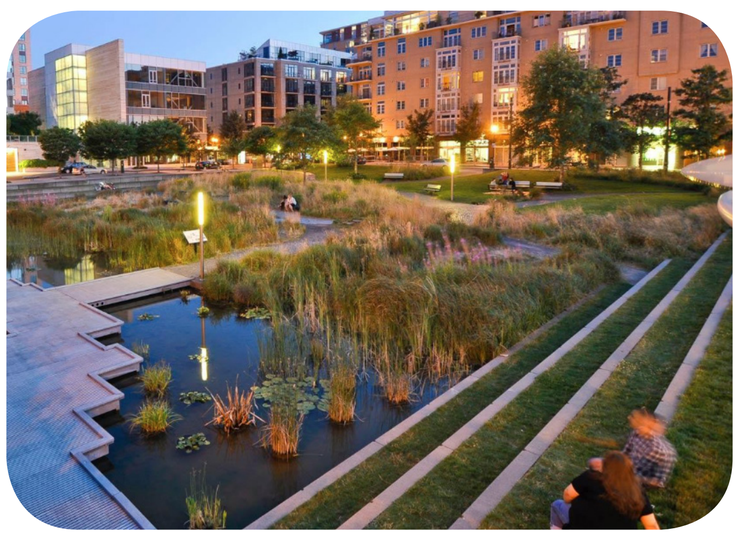
PLAN: Glover's Corner

Preserve. Enhance. Grow.

boston planning & development agency

Co-benefits of Green Infrastructure & Resiliency Strategies





Direct Stormwater to Underground Retention Tanks and Use Permeable Surfaces and Swales to Increase Absorption.

A stormwater detention vault under the linear park system would be designed to manage excess stormwater runoff that open space alone cannot handle. Swales and rain gardens are low-lying small landscape features that also manage water runoff and increase rainwater infiltration.

Mitigates these climate risks

Create Multi-purpose Open Spaces

Open space reduces the amount of heat absorbed and can also hold excess rainwater to slowly drain like in this naturalistic park in Portland.

Mitigates these climate risks

Increase Shade and Tree Canopy

Street trees and awnings can provide a canopy that shades the street and sidewalks below.

Mitigates these climate risks

Install Cool or Green Roofs

Green roofs or white, reflective roofs reduce the amount of heat absorbed by buildings.

Mitigates these climate risks

Case Study: Malmo, Sweden

BO01 Plan

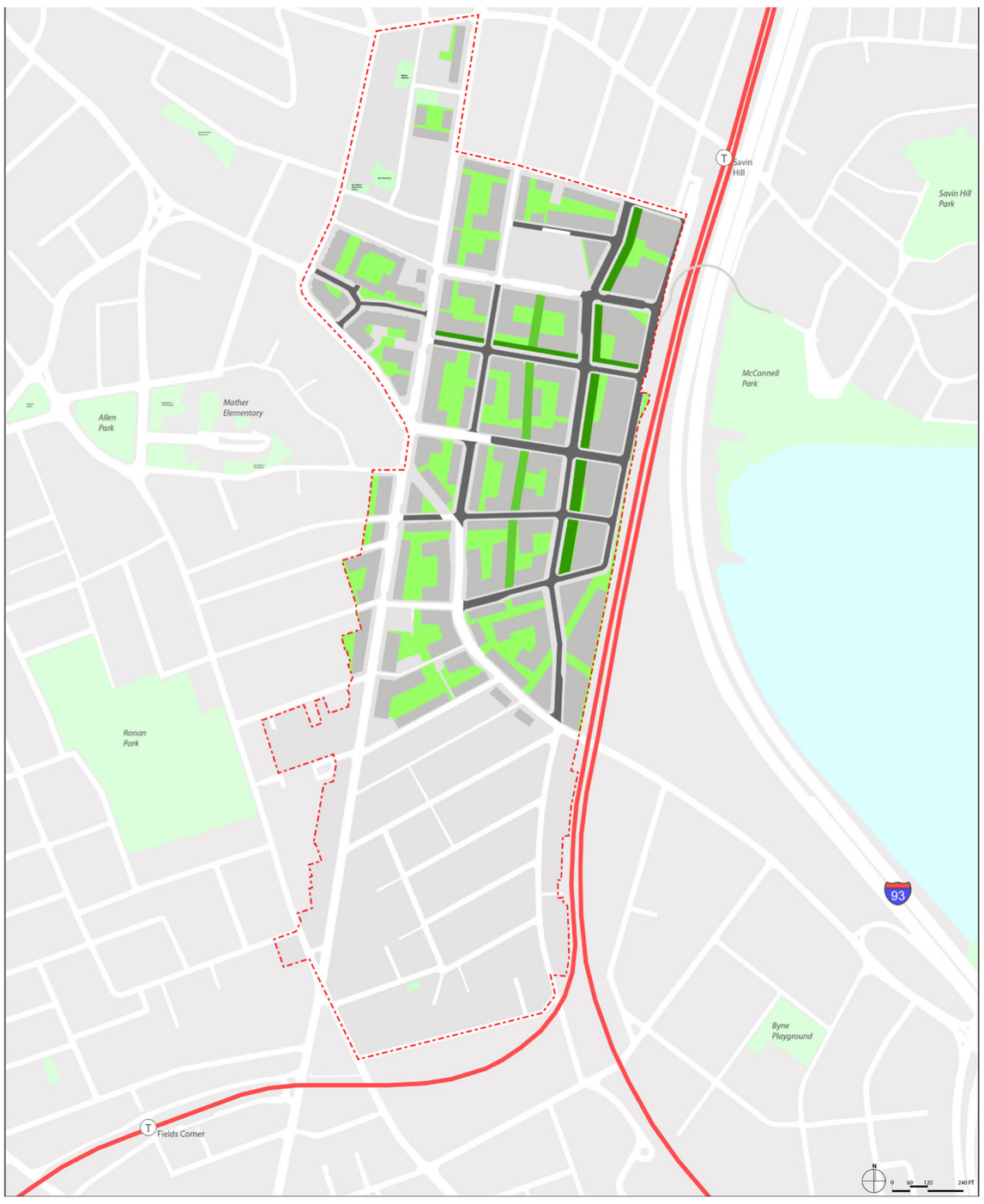
- Similar extended network of parks and green space passages.
- On-site surface storm water management through courtyard ponds and open canals.
- Active recreational open space.

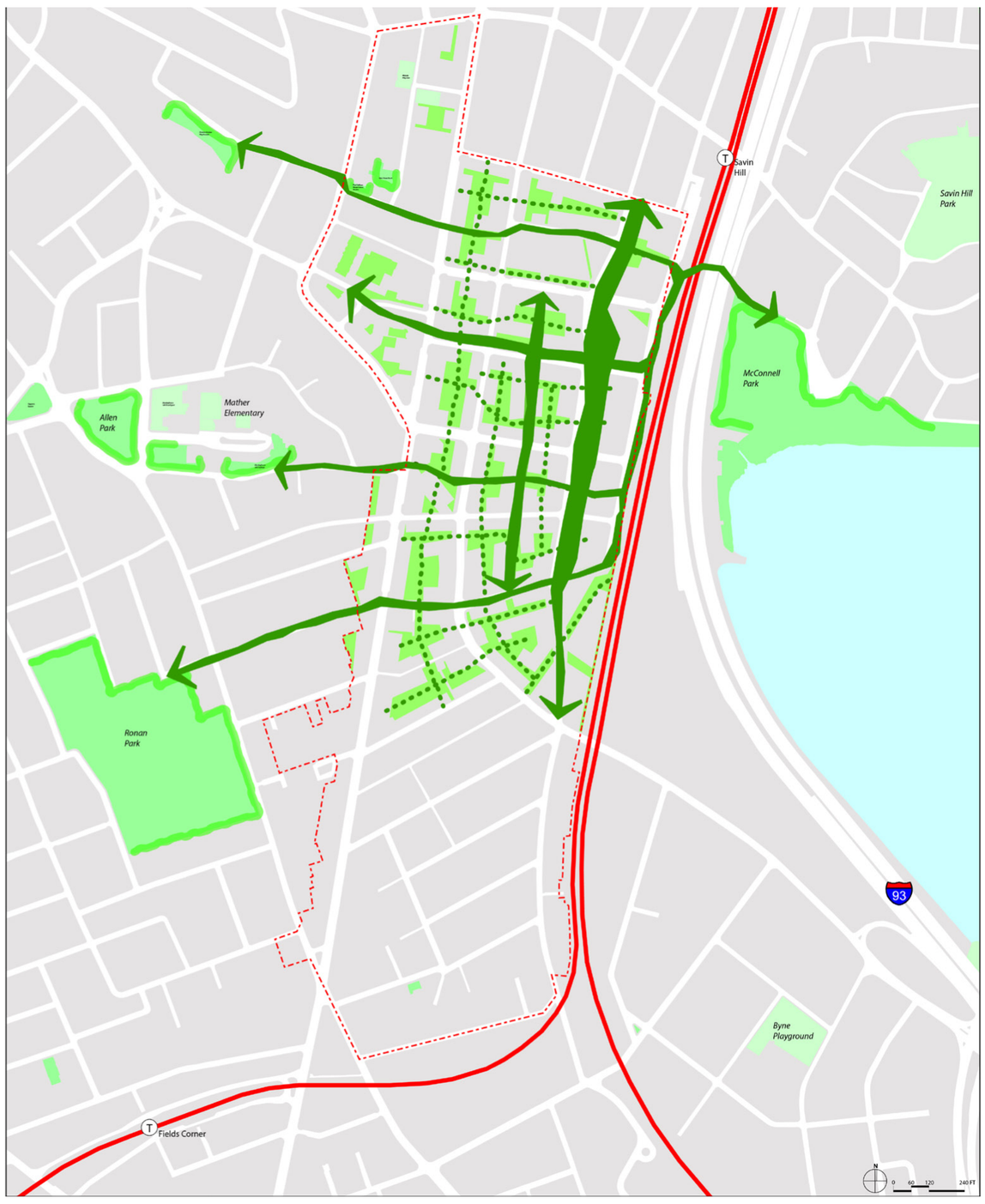
PLAN: Glover's Corner

Preserve. Enhance. Grow.

boston planning & development agency

This Open Space concept will connect Glover's Corner to existing open spaces and create additional green space.

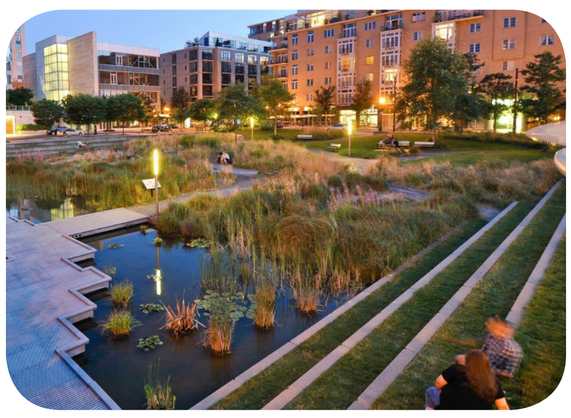




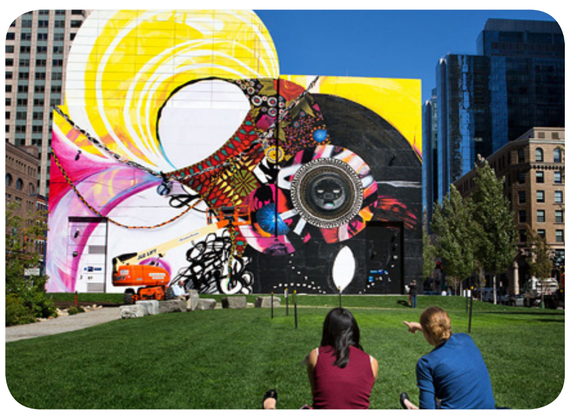
36% Open Space (14% streets; 50% buildings)
24 acres of Open Space

Open Space Network
New Connection to McConnell Park

Open Spaces will be activated through both passive and active types of programming.



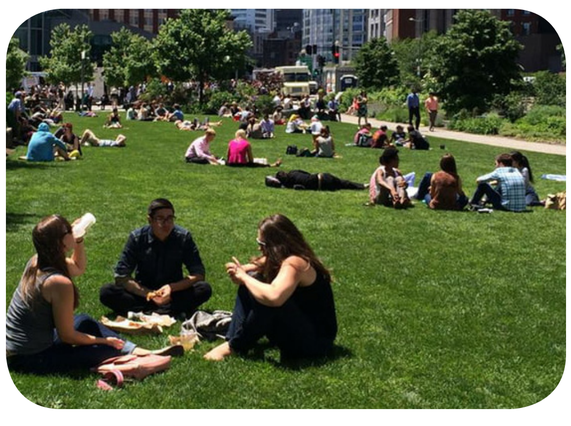
Water-Retention



Public Art

Multi-use Court

Playground



Open Lawn

Civic Gathering

Outdoor Market

Fitness

More Passive — **More Active**

PLAN: Glover's Corner

Preserve. Enhance. Grow.

boston planning & development agency

Conceptual illustrations of potential linear open spaces in Glover's Corner.

Open spaces can transform to serve different purposes at different times.

Smaller Open Space Connections

Between new buildings, there might be pedestrian-only connections to cut across blocks. This improves connectivity for pedestrians and bikers.

East-West Linear Open Space Concept

This linear park creates new green connections between the existing neighborhood and Glover's Corner and the T station.

Floodable Open Spaces

Multi-function parks and swales can hold water during storms and release water after storms.

North-South Linear Park Concept

This wider linear open space creates a pedestrian and bike-friendly connection that parallels Dorchester Avenue. Playgrounds and small, programmed spaces would be dispersed along a park with natural features that help to mitigate storm water.

Weekend Outdoor Market Concept

On some weekends in the summer, parts of the street next to the north-south linear park can be closed down to host street fairs, farmers markets, and other community events.

PLAN: Glover's Corner

Preserve. Enhance. Grow.

boston planning & development agency

What are your thoughts, ideas, or questions about climate resiliency and open space in Glover's Corner?