# Downtown Waterfront **Municipal Harbor Planning Advisory** Committee





Consultants: Utile, Inc. Durand & Anastas Noble & Wickersham

utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

## Agenda

#### I. Urban context of the Harbor Garage

- a. Previous planning studies
- b. Urban Design Considerations

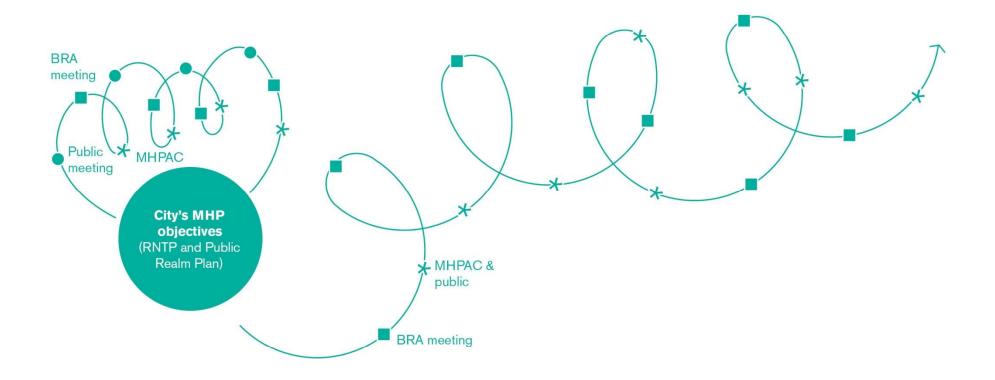
#### II. Review urban design of the proposed redevelopment

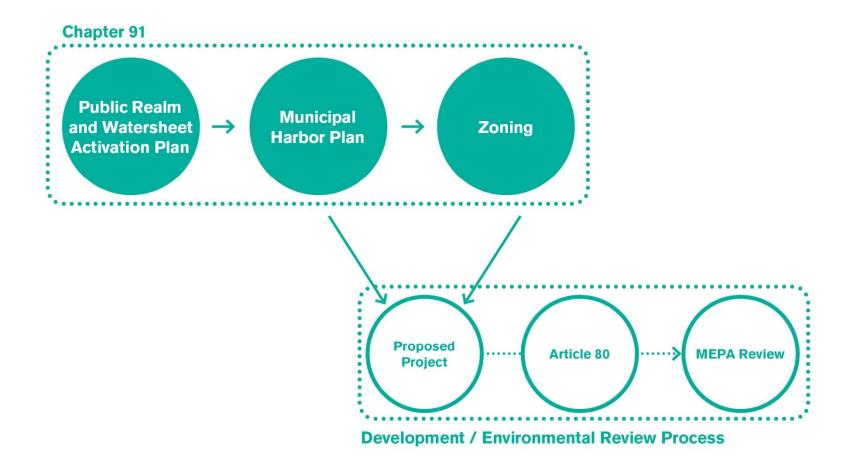
#### III. Review Ch. 91 shadow analysis

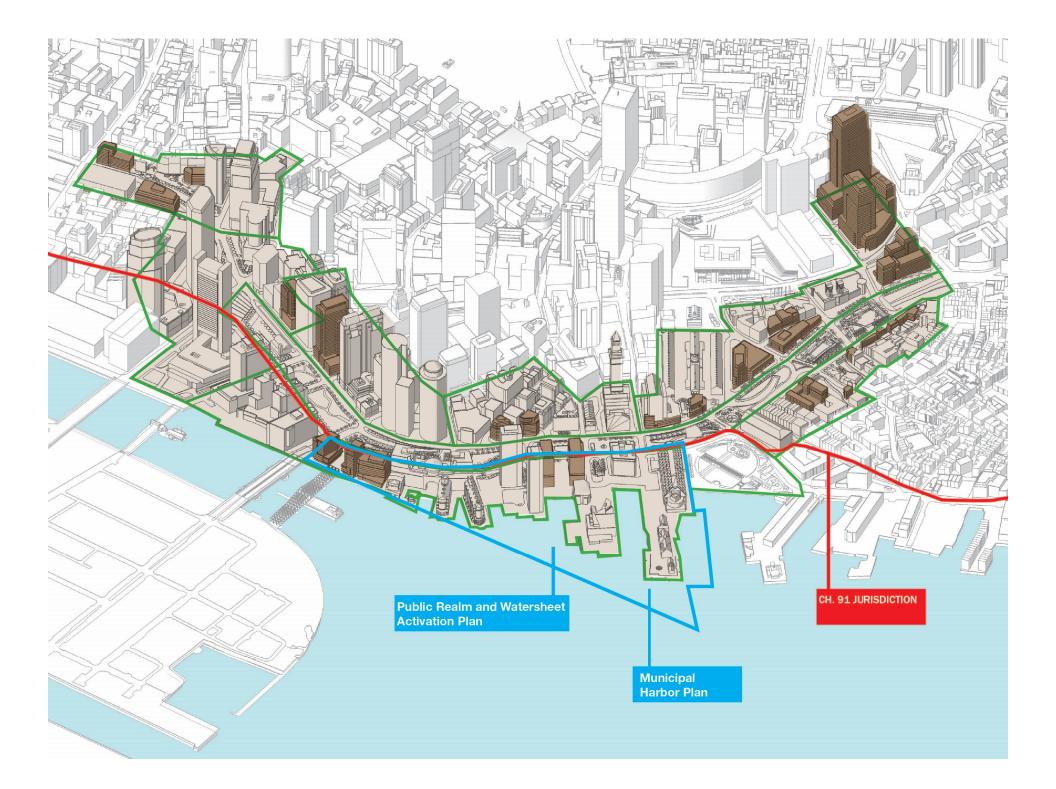
#### **IV. Alternative Scenarios**

- a. Variables to consider
- b. Scenarios for the MHPAC to consider

#### V. Comments and Questions







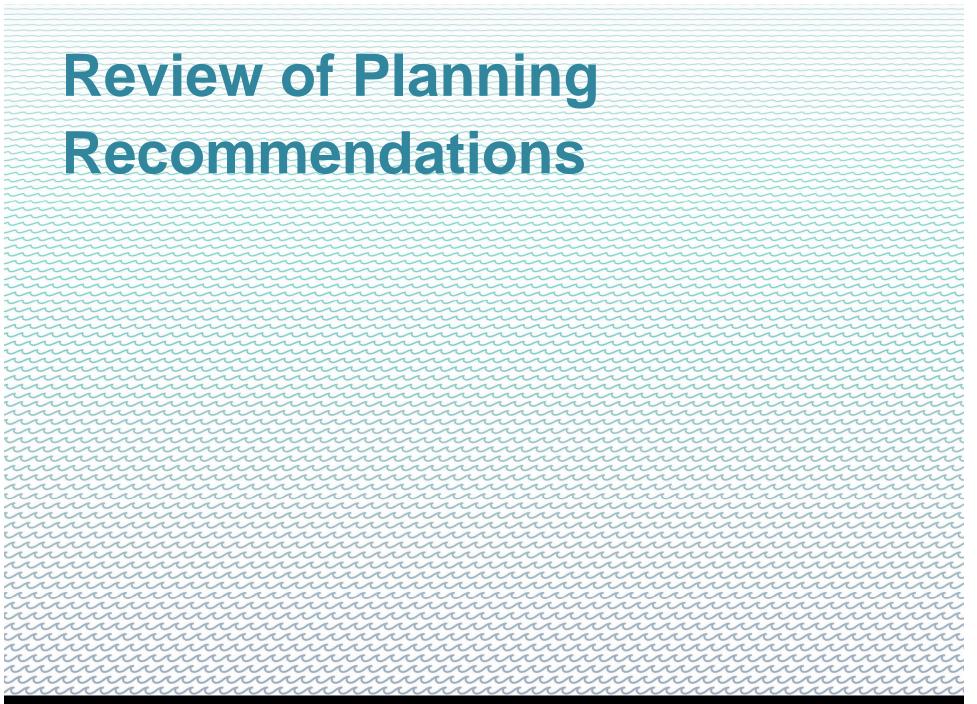
## Urban Context of the



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting – November 19. 2014

6

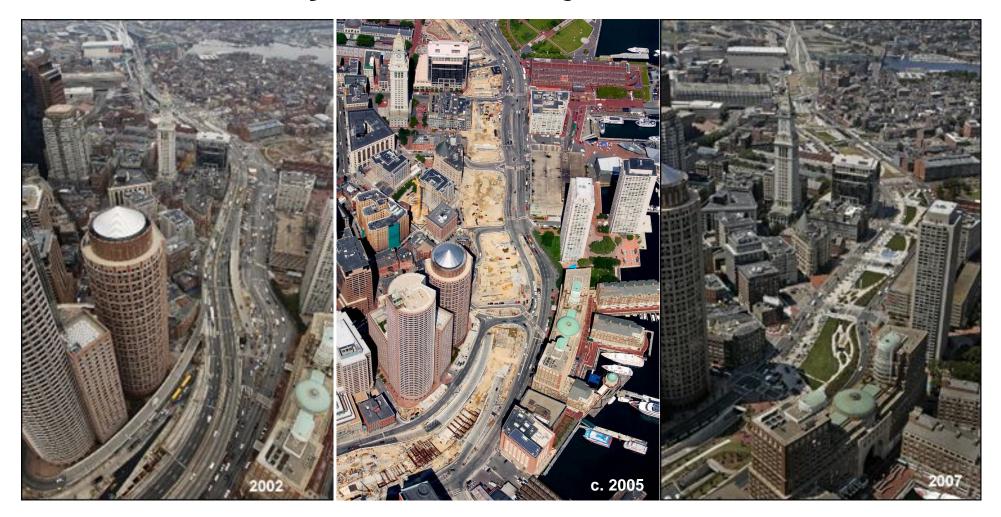


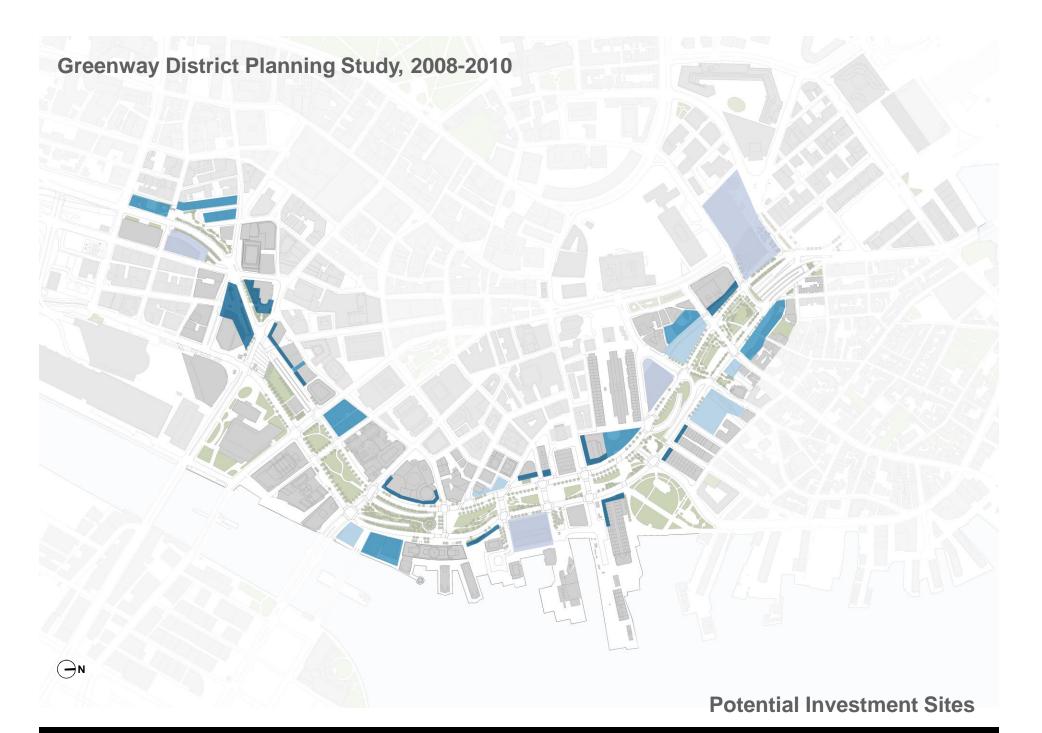
utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting – November 19. 2014

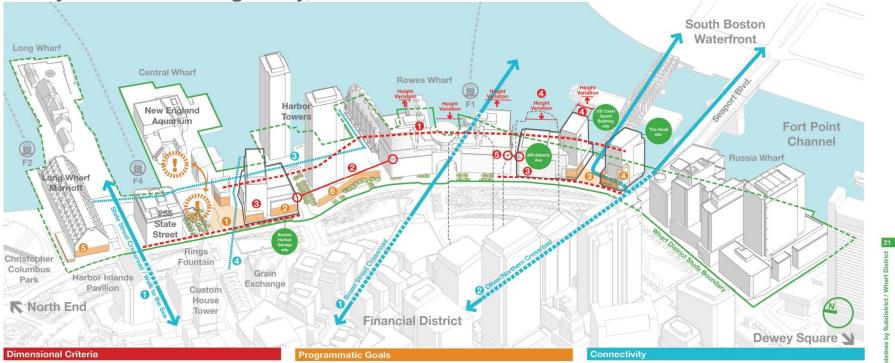
#### Review of Planning Recommendations and History

### **Central Artery/Tunnel Project**





#### **Greenway District Planning Study, 2010**



- It all new buildings will have a maximum height of 200' (with the exception of the Hock site, at 175'), equivalent to the tailer portions of Rowes Wharf. Buildings should combine both low-rise and mid-rise elements in a way that takes cues from the existing context. Individual massing alternatives will be evaluated for how the shadows they create will impact the actively used portions of the park.
- New buildings should establish a datum at the property's edge facing the Greenway. Ideally, the datum corresponds to and reinforces the heights in the immediate context, including the lower portions of Rowes Wharf, the parapet of 255 State Street, or the tailest portion of Cang Wharf, at about 125'. Tailer portions of any new building should be set back by 10'-15' at this datum on the Greenway-facing aidee of the building.
- New development at the Boston Harbor Garage, 400 Atlantic Avenue, and the U.S. Coast Guard Building should reinforce the Atlantic Avenue street edge by building to it along a majority of its frontage. Significant breaks in that alignment should be in the service of opening connections to the waterfront.
- All eites in the Wharf District, including 400 Atlantic Avenue, should vary in height like Rowes Wharf, where taller masses alternate with lower masses of approximately 125 to allow for intermittent exposure to the sky plane, and to maintain visual access to the water. The lengths of any upper portion of a building over 125' should be limited to 125' on the Greenway-facing portions of the building.
- 6 The lower portions of 400 Atlantic Avenue should align with those of Rowes Wharf.

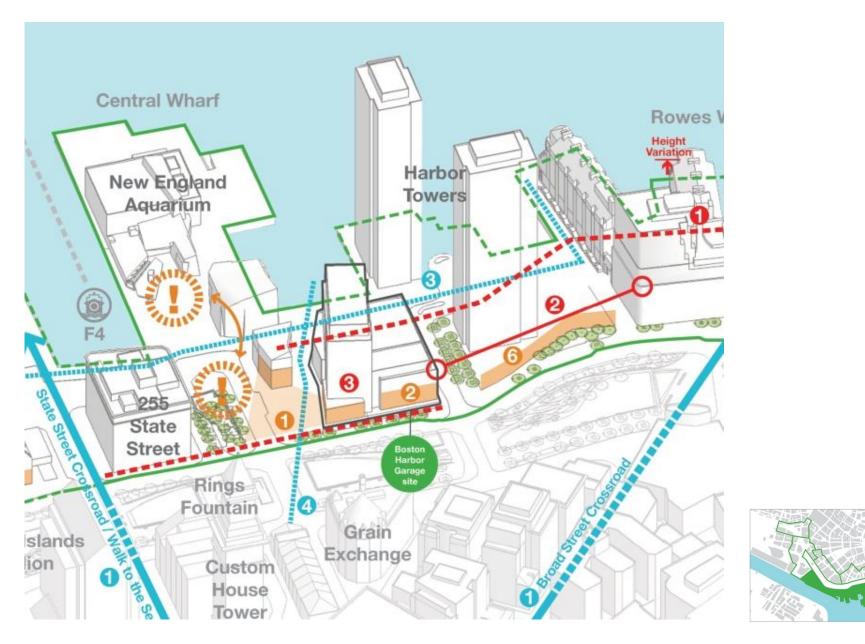
- The lively occupation of the forecourt to the New England Aquarium should be extended as close the Greenway as possible. An additional ticket kiosk or similar related programming venue might facilitate this goal. New development on the Boston Harbor Garage site should feature active uses at the northwest corner that help anchor this node of activity and enhance enjoyment of the harbor.
- 2 New or replaced uses for the Atlantic Avenue edge of the Boston Harbor Garage should offer as many uses as possible that are complementary to the adjacent parks- restaurants, cafes, retail.
- The ground floor uses at 400 Atlantic Avenue and the Hook site should reinforce the presence of the Oliver Street /Northern Avenue Crossroad with complementary active uses. Concentrations of small cafes will help mark the space between them as an important link over the bridges between the Greenway and South Boston.
- The southwest corner of the Hook site should acknowledge in its architectural form the importance of the Moakey Bridge "gateway" to the South Boston waterfront. The form and orientation of the building should reflect the important urban morphologies that have created the site and that announce the grid of the adjacent emerging neighborhood.
- O The edges of the Long Wharf Marriott site have the opportunity to offer expanded ground level uses complementary to the adjacent Greenway and Christopher Columbus Park.
- O The base edge of Harbor Towers is currently defined by a perimeter fence. This location would benefit from an increased residential presence and openness at the ground level.

- State and Broad Streets are two important Crossroads, the only two that terminate at the water's edge. Future development along these axes should enhance these rare direct views to the water from the Financial District, such as those through the earch at Rowse Wharf.
- Development at the Hook site and 400 Atlantic Avenue should enhance the ground plane in such a way as render this most fragile Crossroad connection more legible. Ground floor uses and special attention to landscape design will help in this regard.
- All developments in the Wharf District should enhance the continuity and accessibility of the Harborwalk by providing additional points of connection from the Greenway and by "repairing" breaks in the community caused by grade changes and buildings or other obstructions.
- All developments in the Whart District, and the Boston Harbor Garage site in particular, should increase visual access to the waterfront, either at the building edges or through-building connections.





#### **Greenway District Planning Study, 2010**



## Long and Central Wharves

Long and Central wharves are where the city has historically met the harbor. Throngs of tourists, families, residents, and workers pass through here on a daily basis, drawn by the rich historical significance of the area, the Aquarium and IMAX theater, the nearby Rings Fountain and Greenway Carousel, and the water transportation options. This is the most activated waterfront in Boston.

The primary objective is to create an exemplary twenty-first-century waterfront, so generations to come can experience the water's edge. This requires concerted efforts by the many operators and property owners to come together around common goals, such as managing the pedestrian, bicyclist, and ferry traffic; coordinated wayfinding; and preserving and enhancing key view corridors. Both incremental physical improvements as well as management strategies can help organize and clarify the public realm and movement through this area.

The goals for this area are to:

- → Improve signage and wayfinding and develop coordinated signage system. T his includes a unified water transit system and consistent wayfinding for the transit options. This may include new landmarks, such as public art or flagpoles, along the water front.
- → Diversify the uses within the area, such as include a broader range of retail and food venues, ranging from casual (e.g., food trucks) to fine dining. Consider uses that support the residential community and local workers.
- → Improve the Aquarium plaza / Central Wharf Park area through consistent paving, improved wayfinding, and enhancing key view corridors to

the Aquarium and the harbor from the Greenway.

- → Increase appreciation of the Harbor Islands and establish a permanent Harbor Islands ferry gateway on Long Wharf North. In addition, more activities and seasonal prgramming should be considered for the Harbor Islands (e.g., Hubway or fall and winter nature walks).
- → Activate ground-levels facing the waterfront, key public spaces (e.g., the Greenway and Christopher Columbus Park), and the waterfront.
- → Strengthen lateral connections to waterfront through programming and ground-level activity and maintaining view corridors from the Greenway to the harbor.
- → Invest in ferries and water transportation, including subsidies for infrastructure improvements and ongoing maintenance.
- → Strengthen management of the public realm, such as the bus/trolley parking in the area and vendors. Develop management plan for vendors, trolley operators, seasonal services, etc.
- → Increase appreciation of the Downtown Waterfront through interpretive signage (both historical and environmental). Physical improvements such as storm surge barriers or public spaces designed to withstand inundation are educational opportunities.
- → Create a range of open spaces, from quiet and contemplative zones to active hardscaped areas to shared streets. For example, the Chart House parking lot might be redeveloped as a pocket park with seating, which could complement the restaurant in the Marriot Long Wharf and offer an outdoor waiting area for

ferry passengers. The end of Long Wharf should be a destination, with programming, such as food trucks or casual dining.

- → An innovative rotating public art program, such as those organized by the Public Art Fund in NewYork and Friends of Fort Point Channel locally, might also be considered at the underutilized public spaces. This program could focus on art about climate change and sea level rise or the history of the harbor.
- → Improve connections to the North End and Christopher Columbus Park. This may be through signage or increasing the visual porosity through the Marriott.

#### Key Development Site

#### Harbor Garage

Redevelopment of the Harbor Garage site should respect both the residential uses of Harbor Towers and the activity of Central Wharf. It will form a key edge and gateway, linking the Town Cove neighborhood and the Rose Kennedy Greenway to the Aquarium and the waterfront. The edge along Milk Street, facing Central Wharf Park, needs to be designed with consideration to the streams of visitors heading to the Aguarium, the IMAX Theater, and the ferries on the wharves. This side of the parcel, as well as the edge facing the waterfront, are the most appropriate locations for new public open spaces on this parcel.





#### **Key Development Site**

#### Harbor Garage

Redevelopment of the Harbor Garage site should respect both the residential uses of Harbor Towers and the activity of Central Wharf. It will form a key edge and gateway, linking the Town Cove neighborhood and the Rose Kennedy Greenway to the Aquarium and the waterfront. The edge along Milk Street, facing Central Wharf Park, needs to be designed with consideration to the streams of visitors heading to the Aquarium, the IMAX Theater, and the ferries on the wharves. This side of the parcel, as well as the edge facing the waterfront, are the most appropriate locations for new public open spaces on this parcel.

#### Vharves

ferry passengers. The end of Long Wharf should be a destination, with programming, such as food trucks or casual dining.

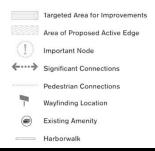
- → An innovative rotating public art program, such as those organized by the Public Art Fund in NewYork and Friends of Fort Point Channel locally, might also be considered at the underutilized public spaces. This program could focus on art about climate change and sea level rise or the history of the harbor.
- → Improve connections to the North End and Christopher Columbus Park. This may be through signage or increasing the visual porosity through the Marriott.

#### Key Development Site

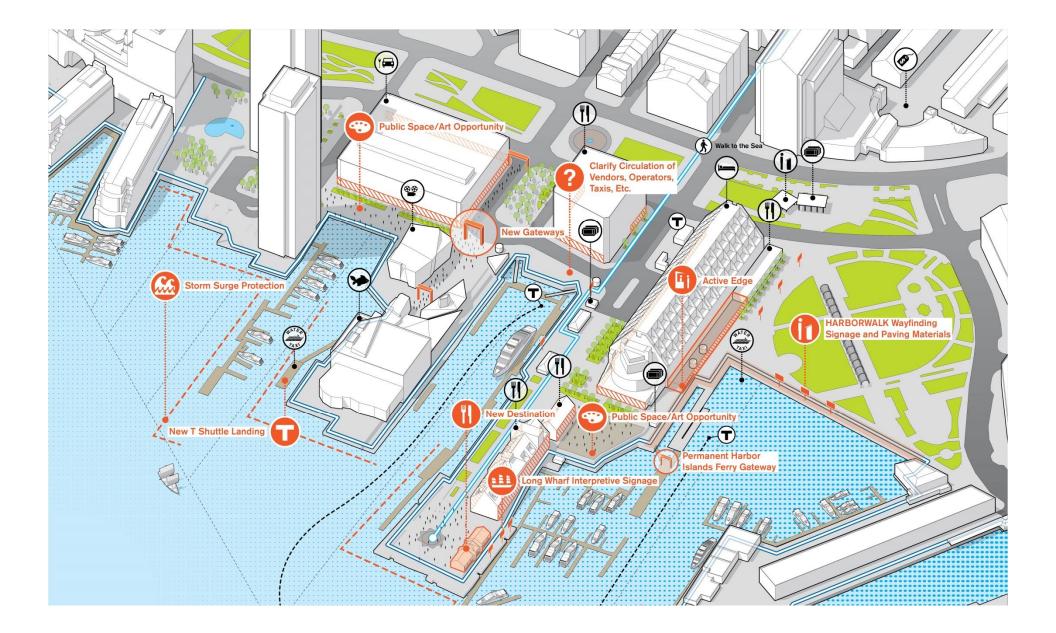
#### Harbor Garage

Redevelopment of the Harbor Garage site should respect both the residential uses of Harbor Towers and the activity of Central Wharf. It will form a key edge and gateway, linking the Town Cove neighborhood and the Rose Kennedy Greenway to the Aquarium and the waterfront. The edge along Milk Street, facing Central Wharf Park, needs to be designed with consideration to the streams of visitors heading to the Aguarium, the IMAX Theater, and the ferries on the wharves. This side of the parcel, as well as the edge facing the waterfront, are the most appropriate locations for new public open spaces on this parcel.





and offer an outdoor waiting area for

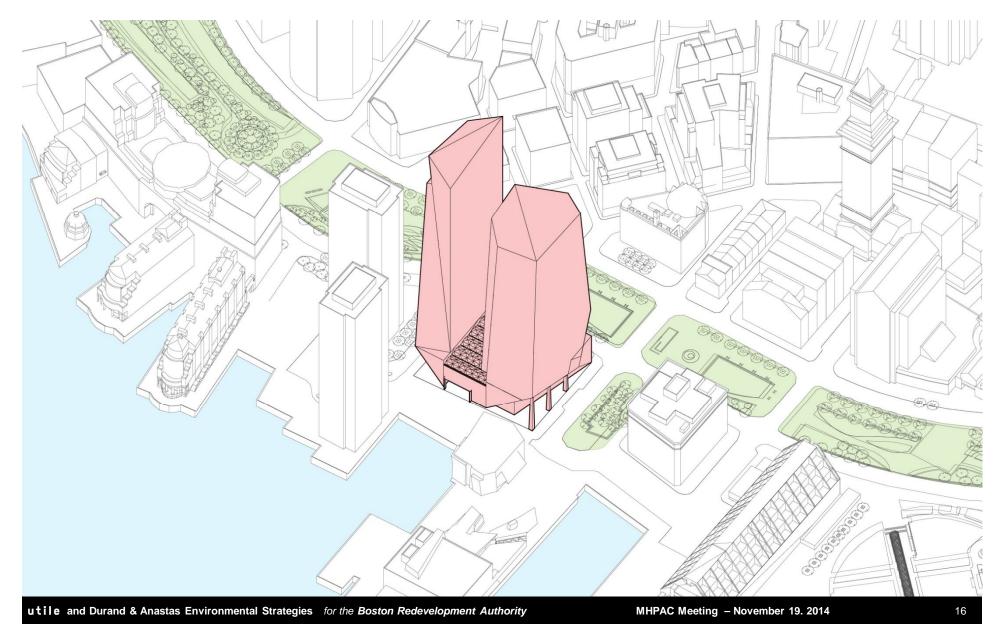




utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

#### Overview of Proposed Redevelopment Scenario

### **Proposed Building**



### **Evaluating the proposed redevelopment**

Open Space	What is the quality of open space?
View Corridors	How visible is the water? The Aquarium?
Edges	How do the edges contribute to their surrounding context? Are they actively programmed?
Activation of the Public Realm	Does the proposed ground-level programs appropriately activate the public realm?
How it fits within the urban context	What massing is appropriate along the waterfront? What height is appropriate along the waterfront? In this historical context?
Environmental Effects	How will the proposed building affect the surrounding context? What will the shadow impacts be?

### **Evaluating the proposed redevelopment**

#### MHPAC members asked....

Please review of **alternate building envelope scenarios** to better understand what the **incremental differences would be with shadow and differing heights**.

Expressed concern with the bulk of the proposed buildings and whether there are **other design options and massing variations** that could be reviewed.

What are the **views from the ground level** from a number of different vantage points? How will the massing be viewed from various pedestrian level vantage points?

What is a proposal closer to the **50% lot coverage standard**?

What about establishing of **shadow protection zones**? But not extending out into the middle of the harbor.

### **Harbor Garage**



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting – November 19. 2014

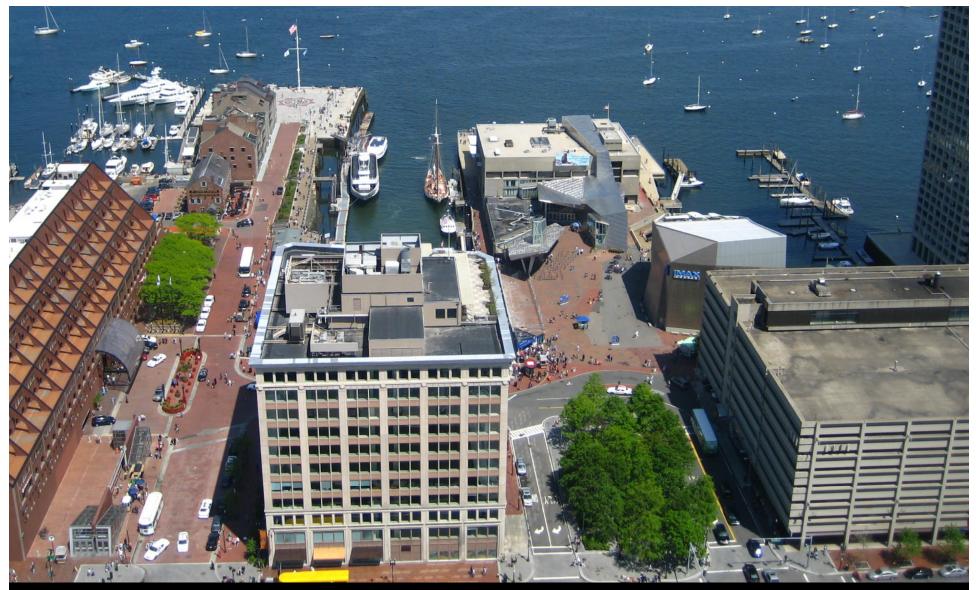
### **Harbor Garage**



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

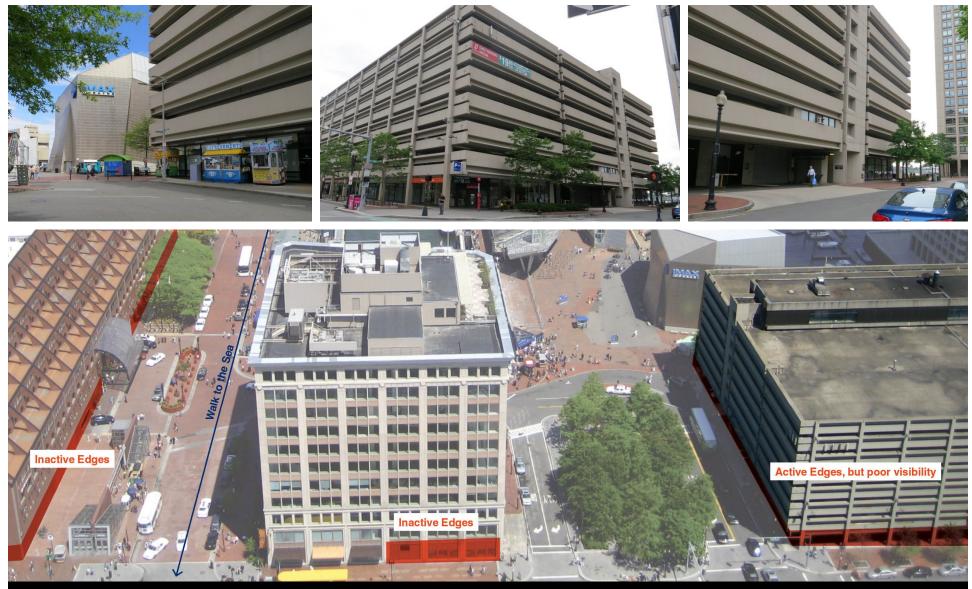
### Harbor Garage



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting – November 19. 2014

### **Harbor Garage**



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting – November 19. 2014

### Harbor Garage



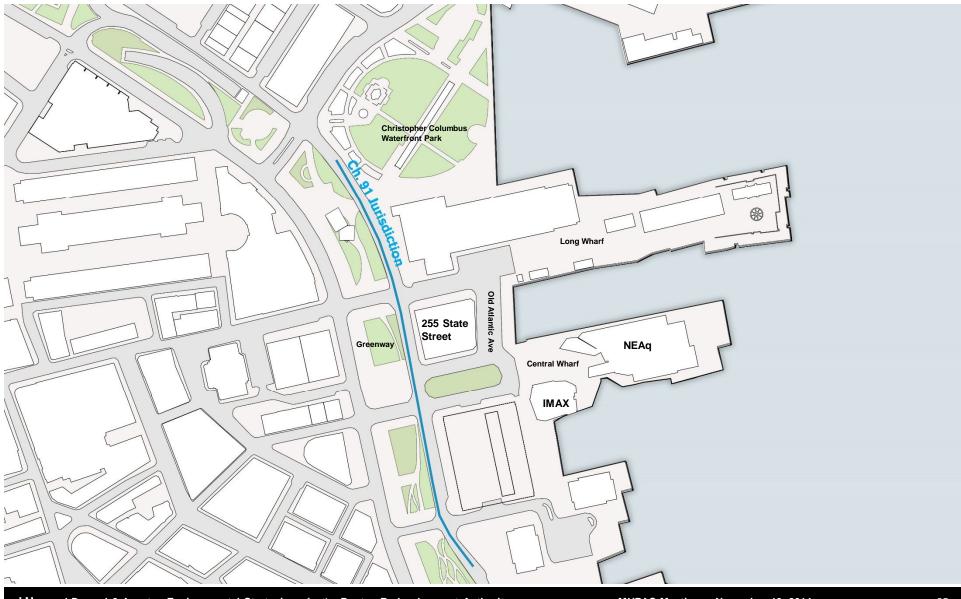
utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

### Harbor Garage



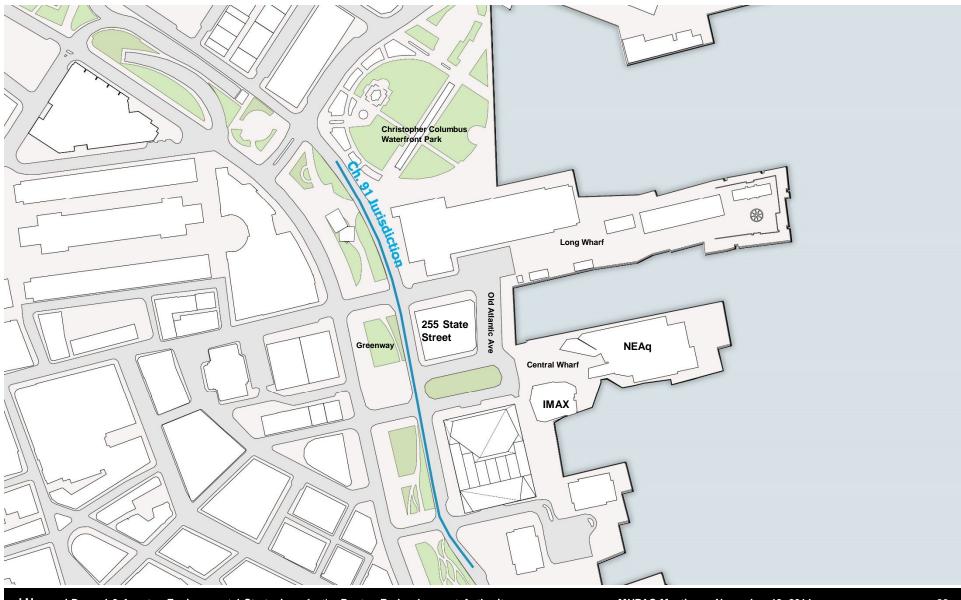
### Harbor Garage



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

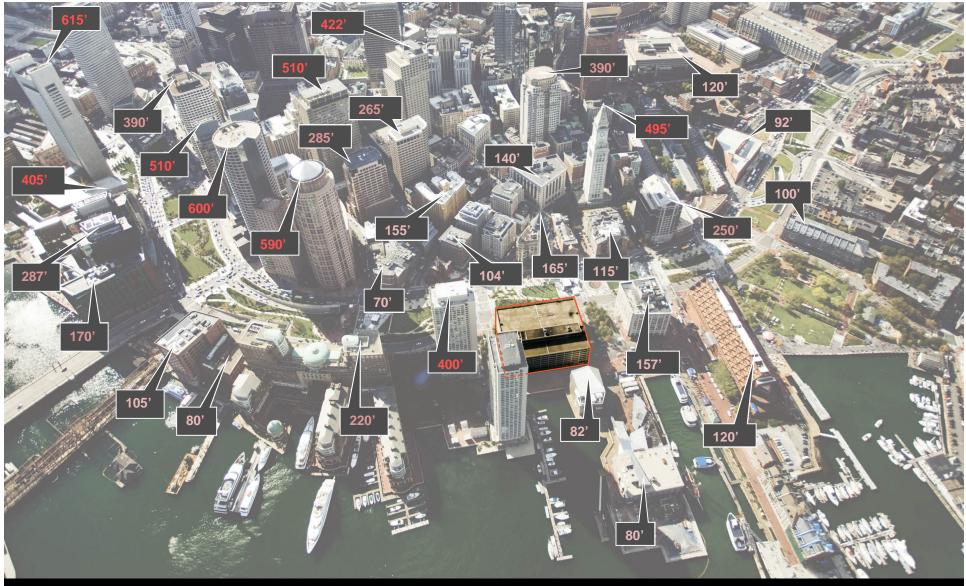
### Harbor Garage



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

### **Harbor Garage**



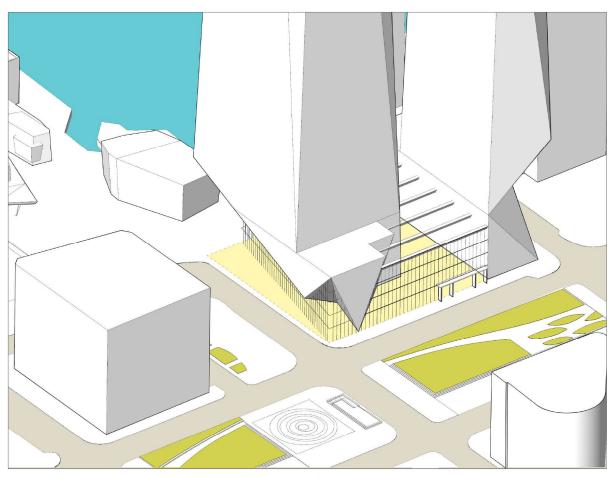
utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting – November 19. 2014

### **Harbor Garage Proposal**



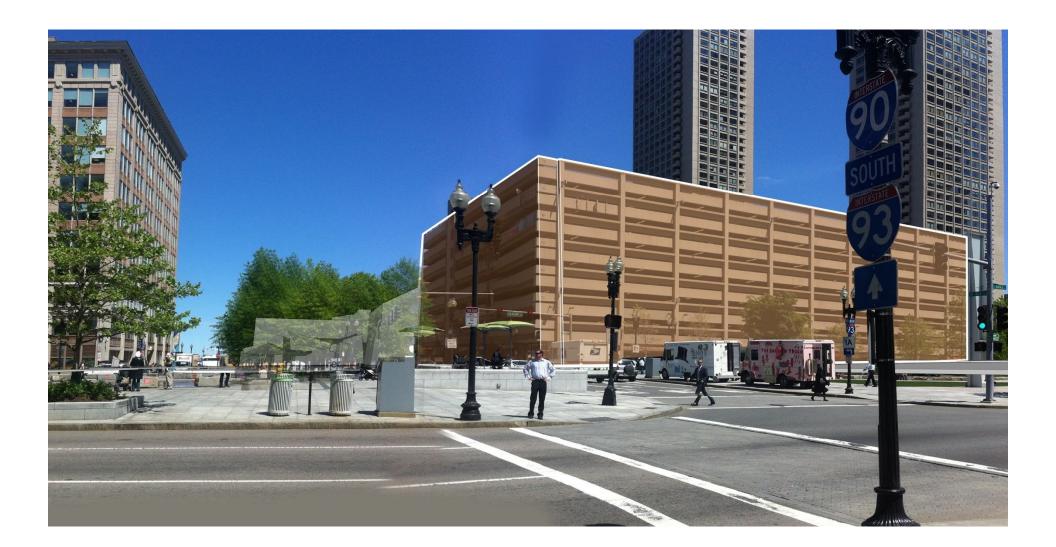
Year-round activities

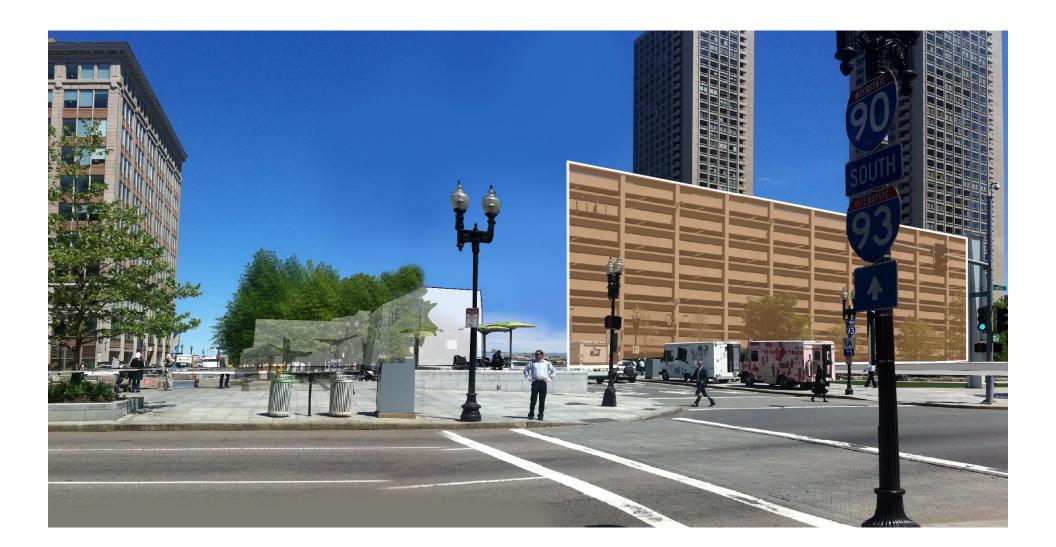


Addition of retractable canopy increases streetscape activation year-round

### **Harbor Garage Proposal**







# Review Ch. 91

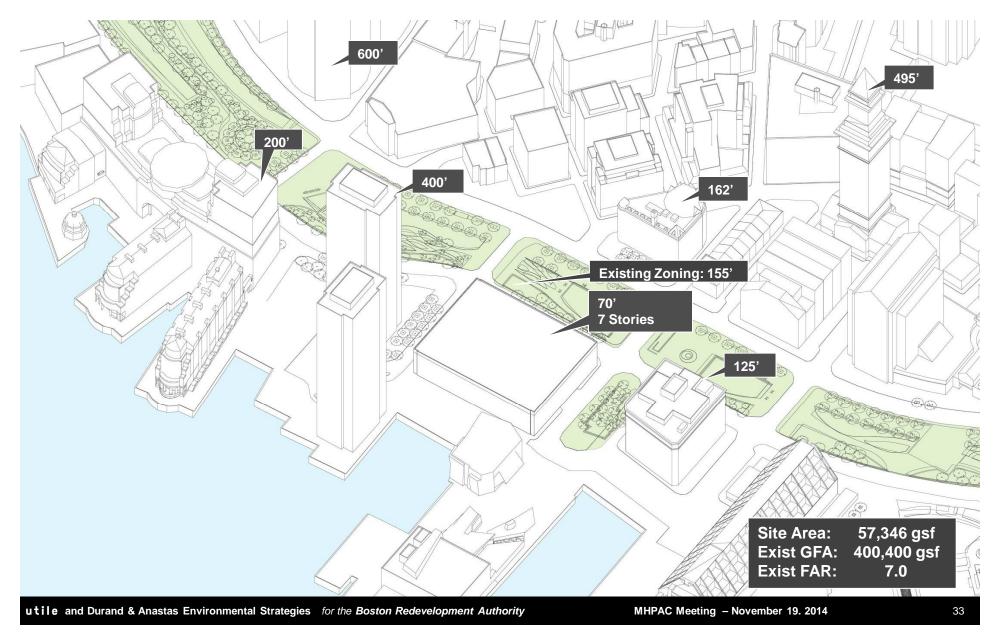
## shadow analysis

utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

Downtown Waterfront: Harbor Garage Site

### **Existing Conditions**

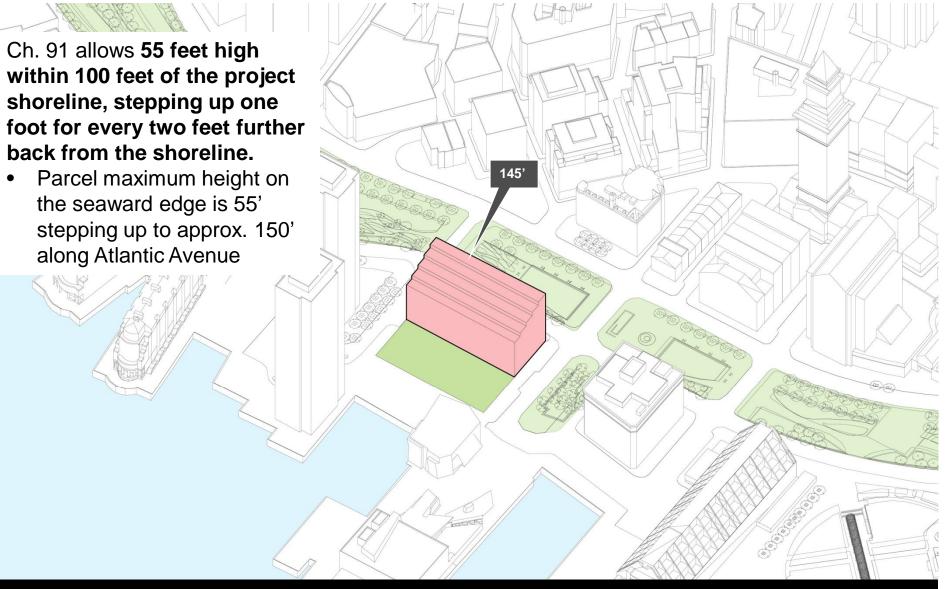
100% Building Coverage 0% Open Space



Downtown Waterfront: Harbor Garage Site

### Ch. 91 Baseline

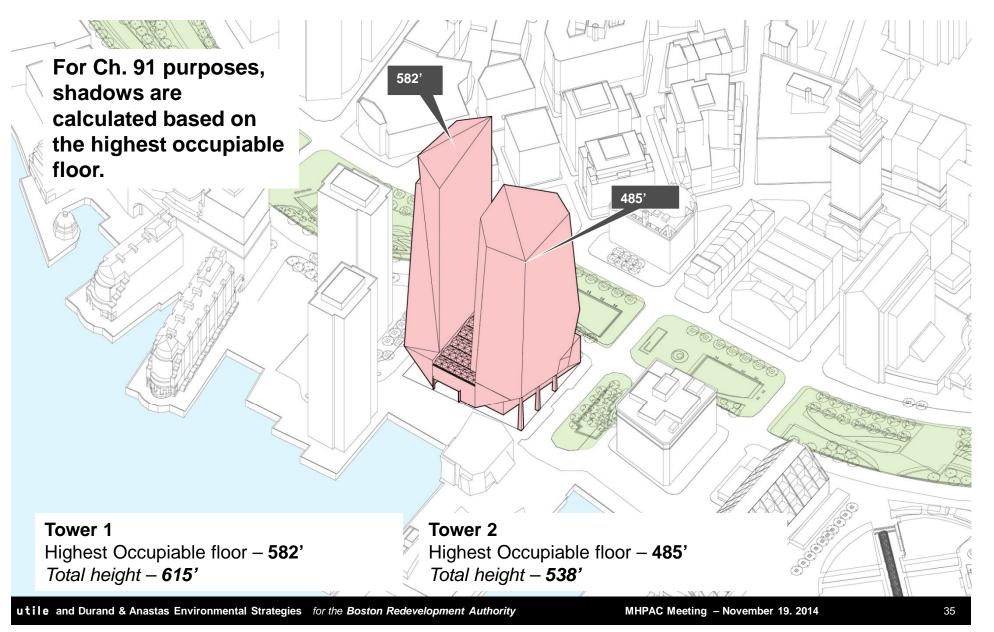
50% Building Coverage 50% Open Space



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

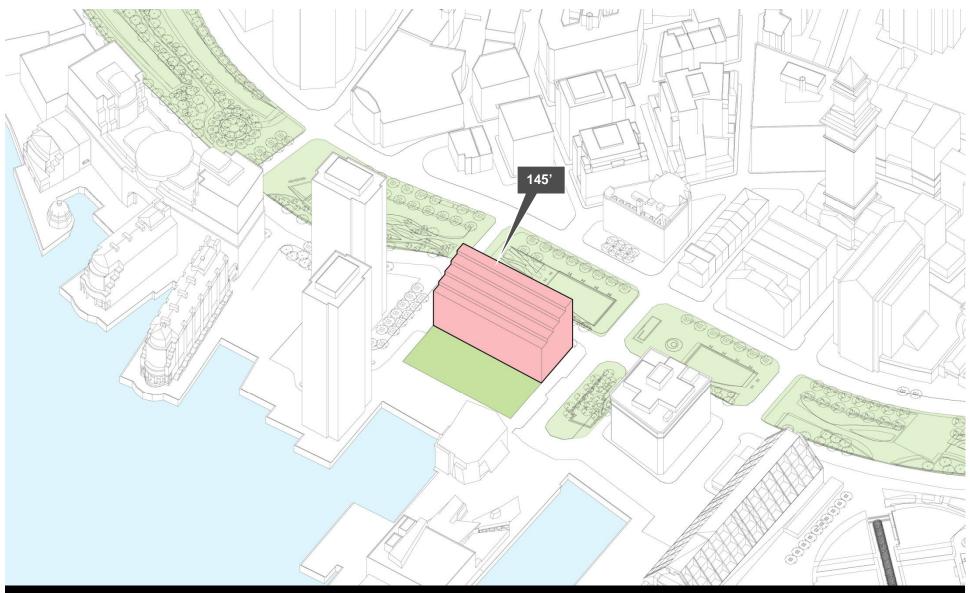
### **Proposed Development**

100% Building Coverage 0% Open Space



Ch. 91 Baseline and the Proposed Redevelopment Scenario Chapter 91 Compliant Scenario

50% Building Coverage 50% Open Space



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

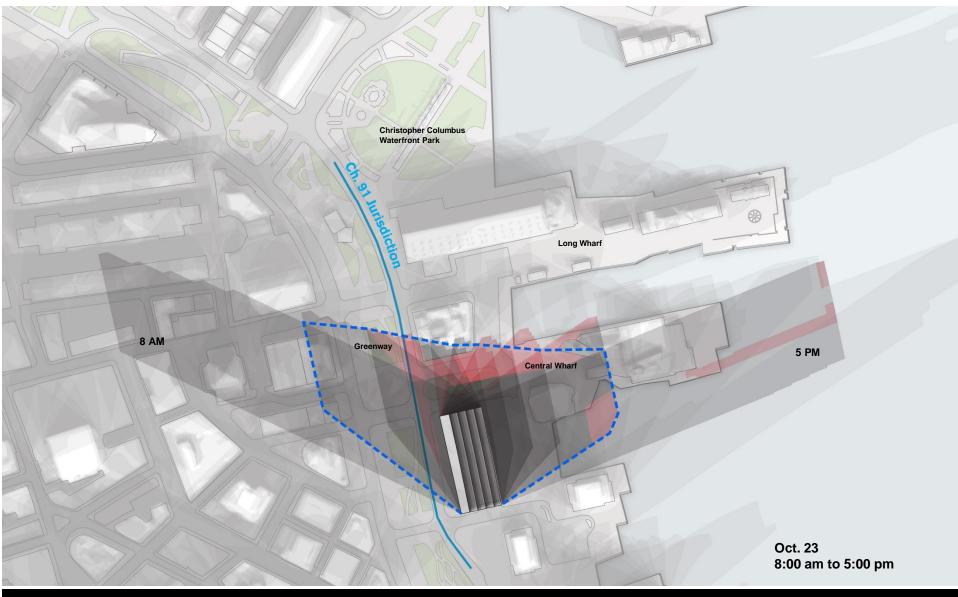
#### Ch. 91 Baseline and the Proposed Redevelopment Scenario Chapter 91 Compliant Scenario



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

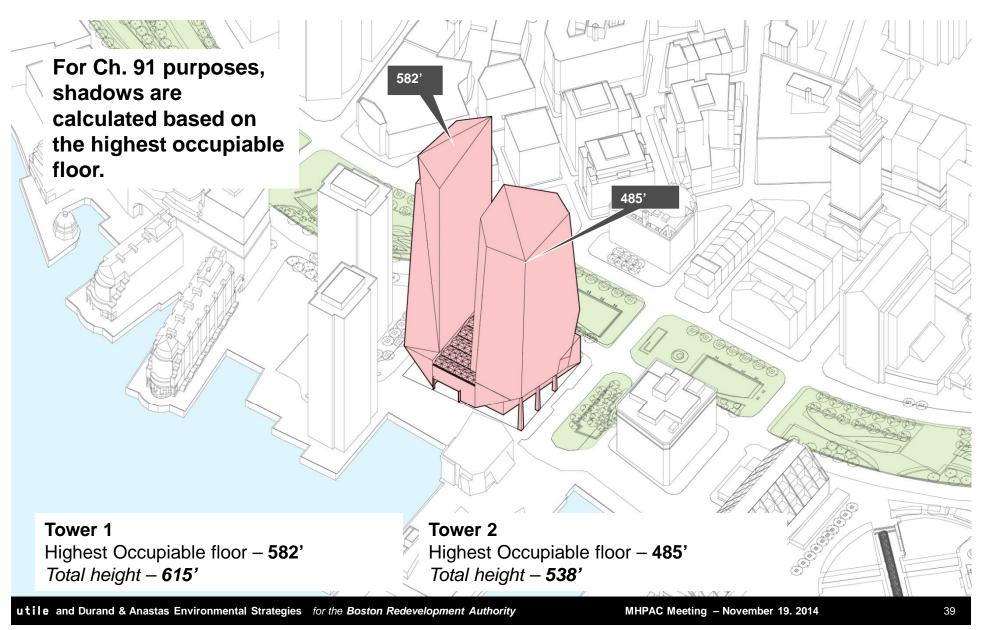
MHPAC Meeting - November 19. 2014

Ch. 91 Baseline and the Proposed Redevelopment Scenario Chapter 91 Compliant Scenario  Minimum 1 hour or more continuous shadow extent for Chapter 91 Compliant scenario



Ch. 91 Baseline and the Proposed Redevelopment Scenario

## **Proposed Building**



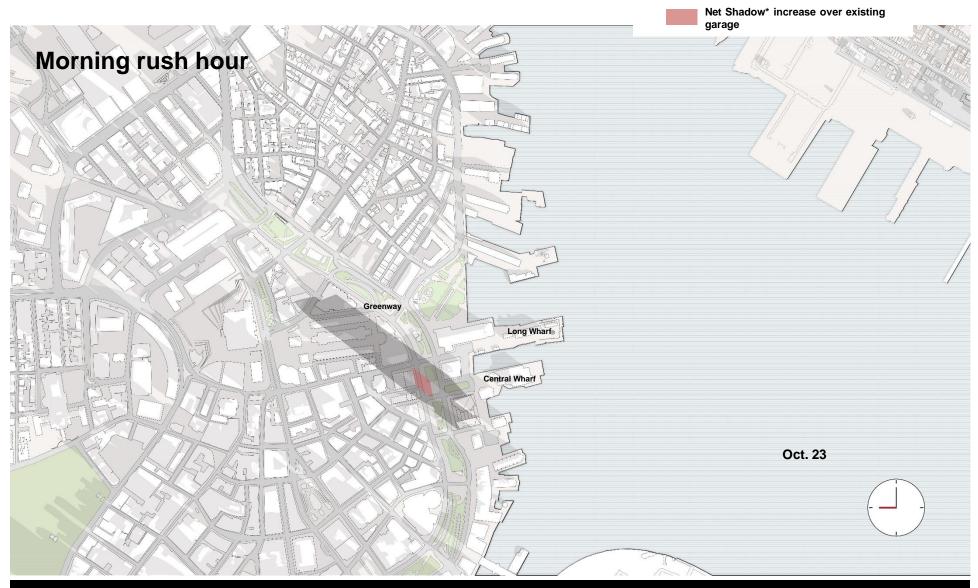
Shadow based on Highest Occupiable Floor



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

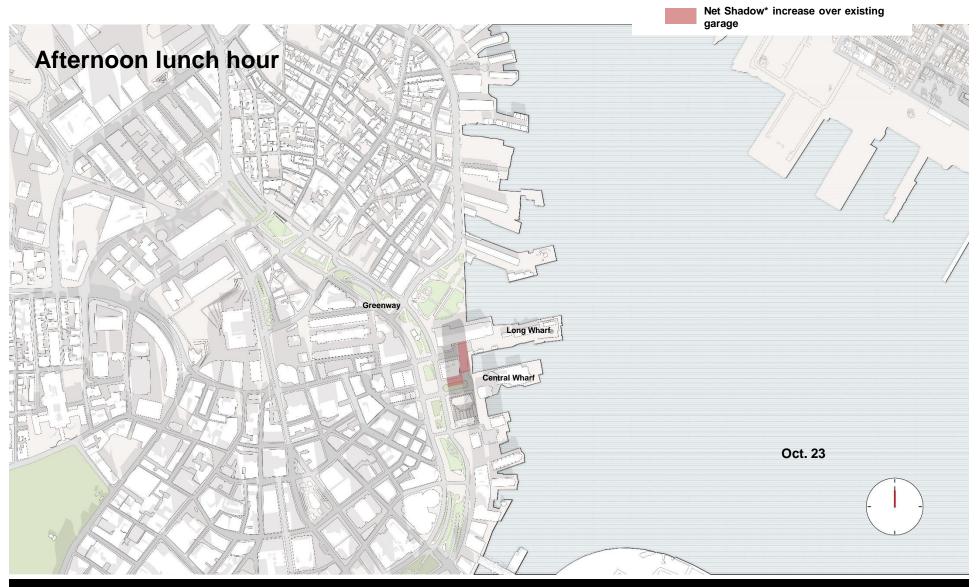
Shadow based on Highest Occupiable Floor



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

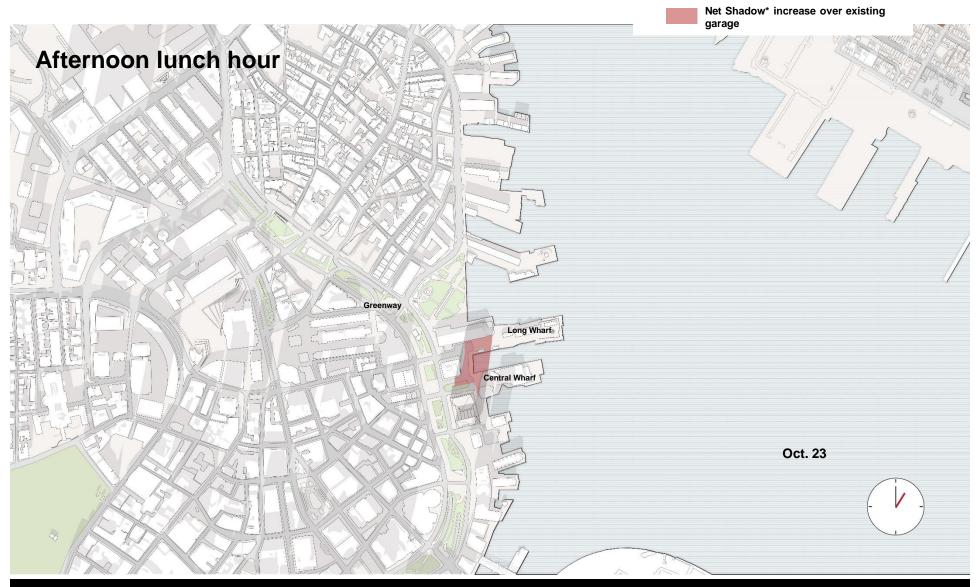
Shadow based on Highest Occupiable Floor



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

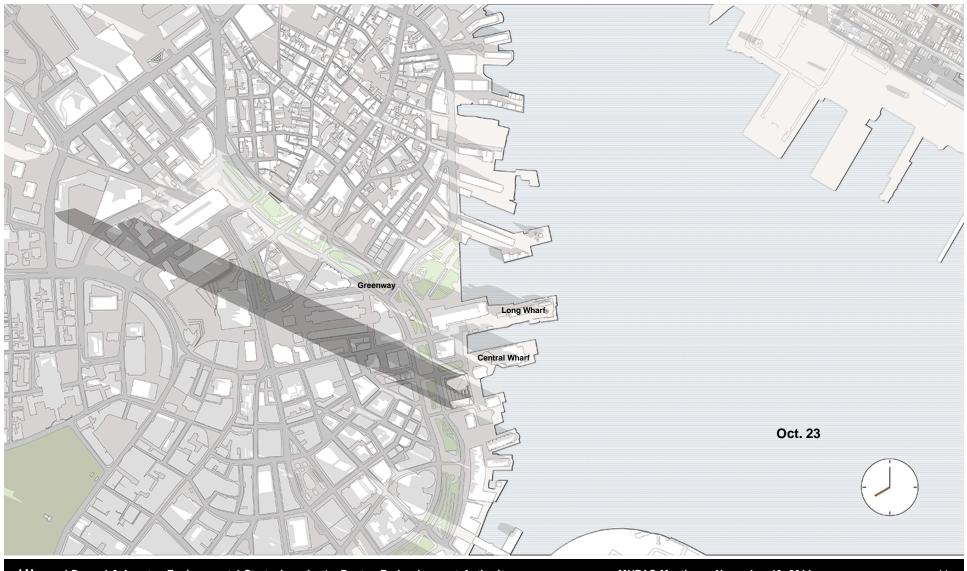
Shadow based on Highest Occupiable Floor



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014

Shadow based on Highest Occupiable Floor



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

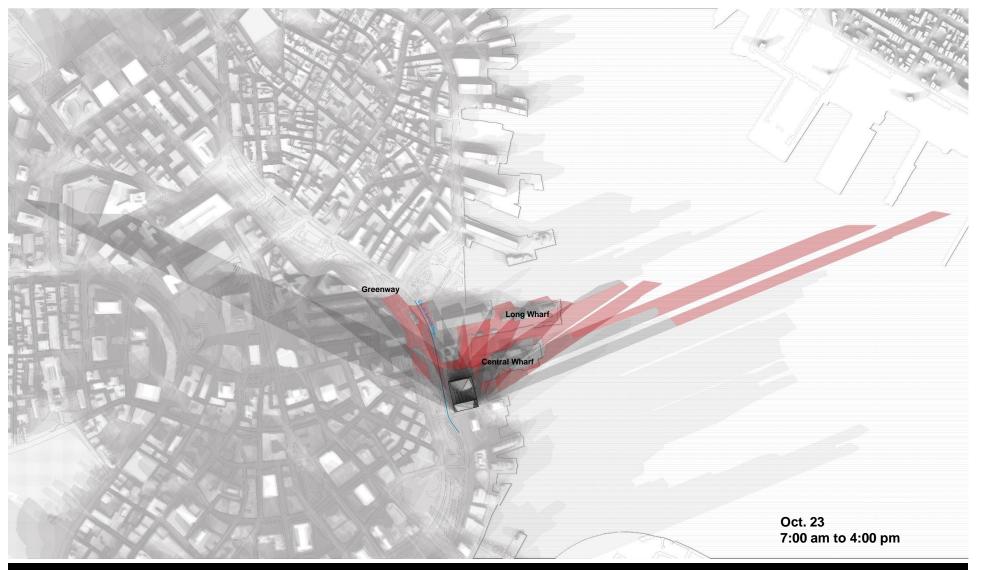
MHPAC Meeting - November 19. 2014

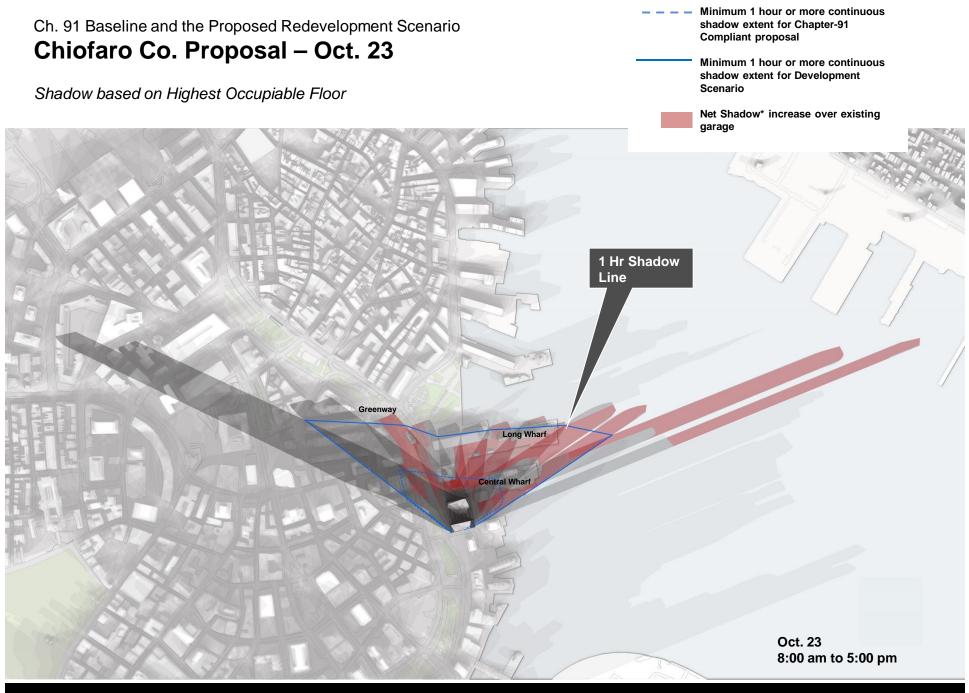
Shadow based on Highest Occupiable Floor

\* Net shadow increase, as compared to existing garage (taking into consideration shadows cast by all existing buildings)



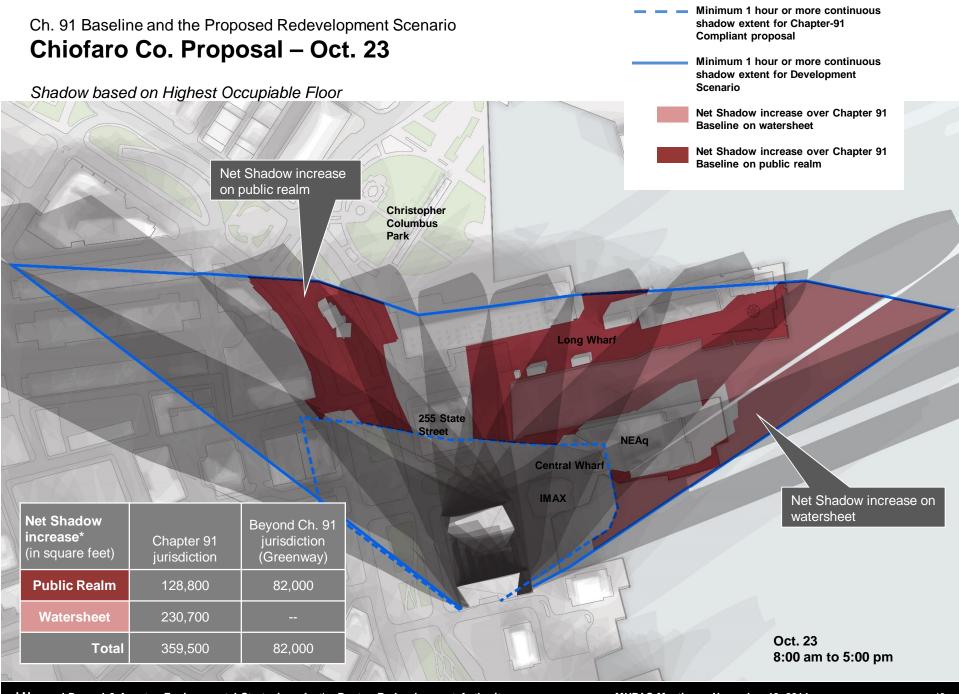
Shadow based on **Total Height** 





utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

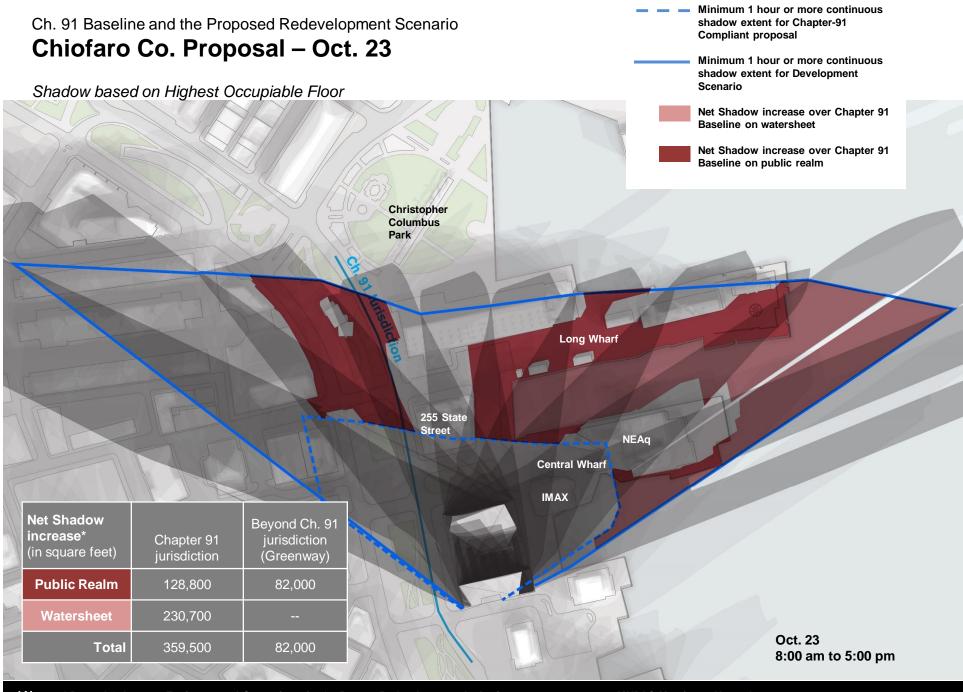
MHPAC Meeting – November 19. 2014



48

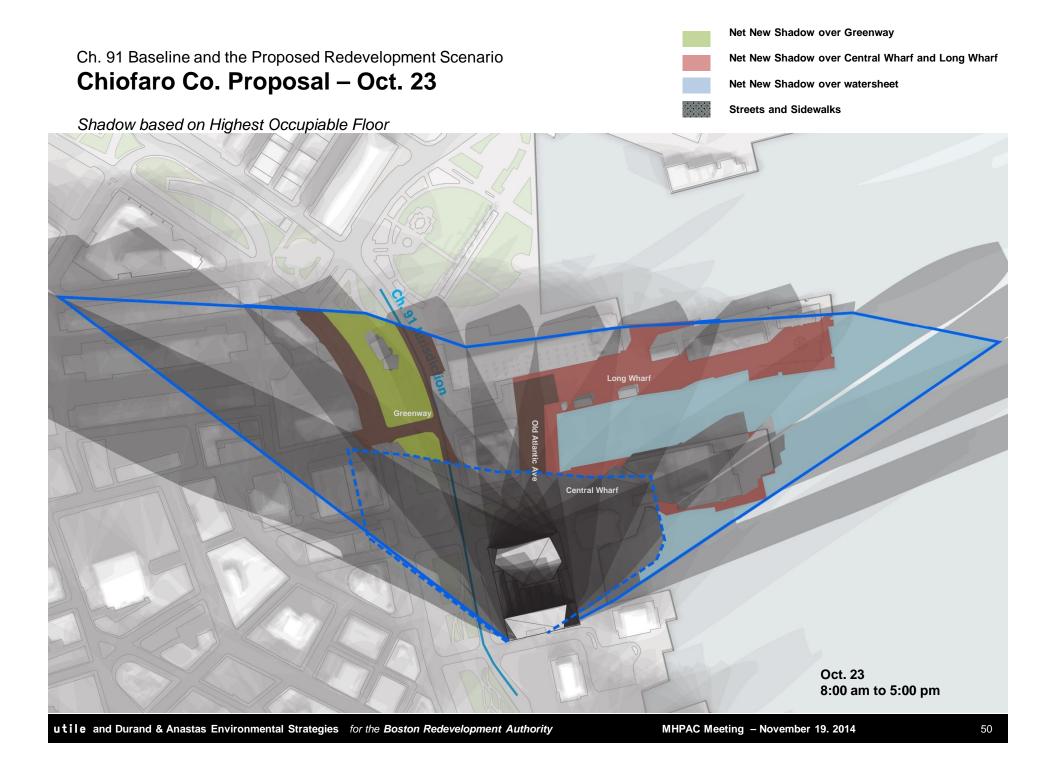
utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting - November 19. 2014



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

MHPAC Meeting – November 19. 2014



# **Other criteria**

# **Impact on Long Wharf**

utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

Downtown Waterfront
Long Wharf



utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

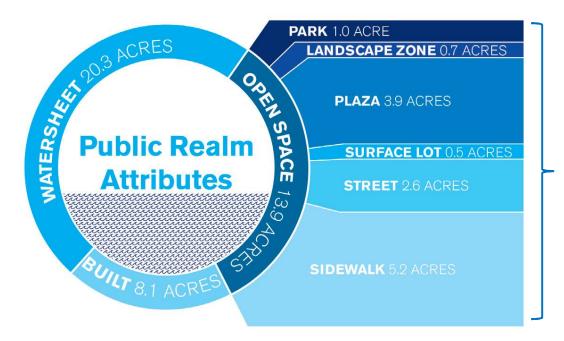
MHPAC Meeting - November 19. 2014

# Downtown Waterfront Long Wharf



**Downtown Waterfront** 

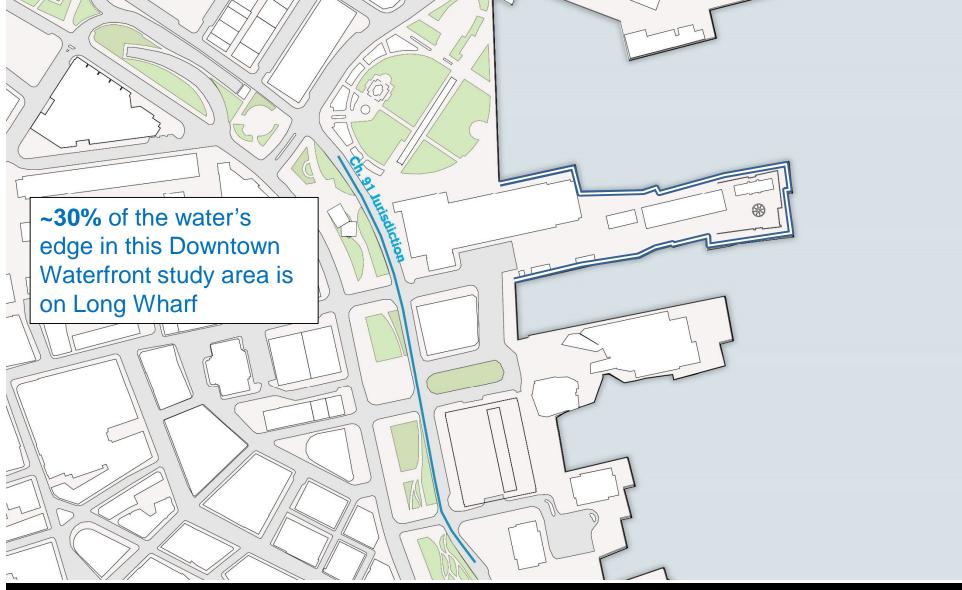
## Long Wharf: Open Space Resource



~ 33 % of the open space in the Downtown Waterfront study area is Long Wharf

#### Downtown Waterfront

## Long Wharf: Water's Edge

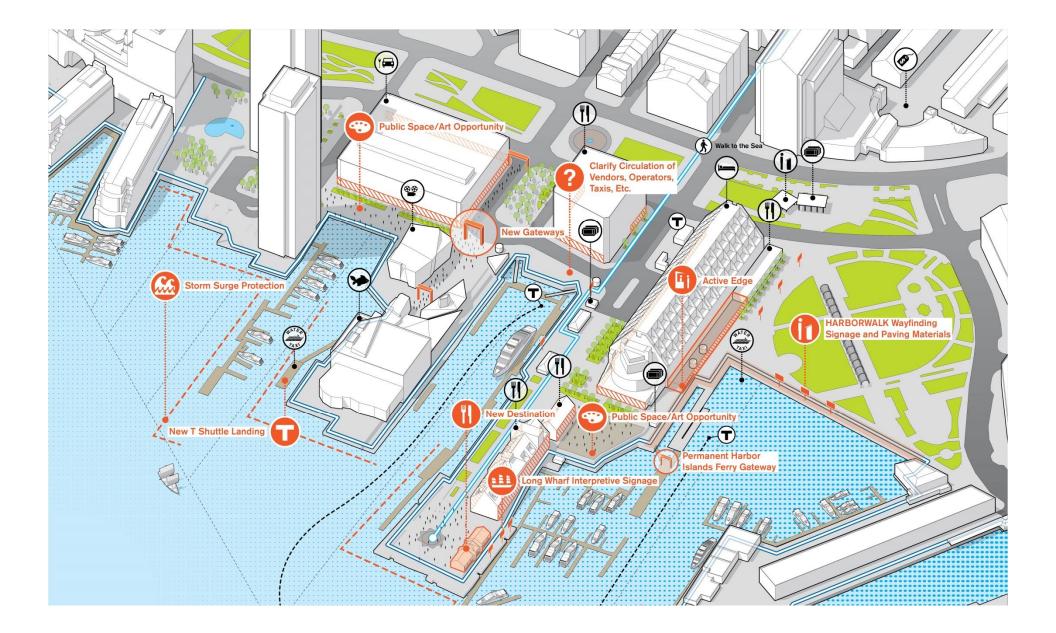


#### **Downtown Waterfront**

## **Long Wharf: Water Transportation Hub**



**Boston Harbor Cruises** estimates an additional 400K annual riders in the next 5 years. **Harbor Island Alliance:** 2014 was their busiest year with approximately 125,000 visiting the islands, which is up 17% from 2013.



# Ch. 91 Precedents Shadow Protection Zone

#### MHPAC members:

- Asked about "the extent of shadow impacts on significant open space resources."
- "Referenced support for the establishment of shadow protection zones, but they should not extend out into the middle of the harbor."



Figure 10-3 Fan Pler, Pier 4 and McCourt / Broderick Substitution Provisions

"Our greatest concern is the **shadows of longer duration**, as these can have a significant impact on the pedestrian environment.... Accordingly we focused our attention on those areas of the shadow protection zone that are in shadow more than one hour each day."

- South Boston MHP

### Ch. 91 Shadow Protection Zone

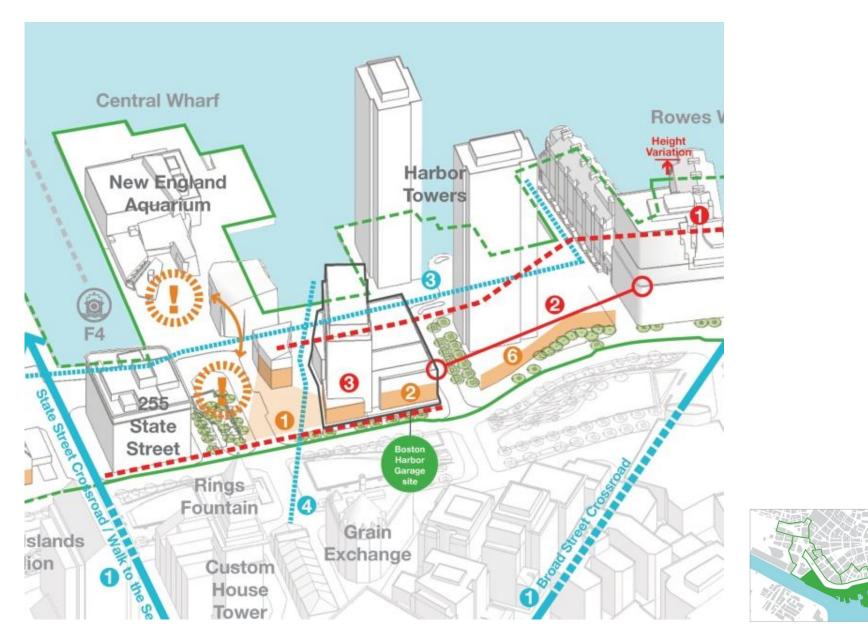


# **Other criteria**

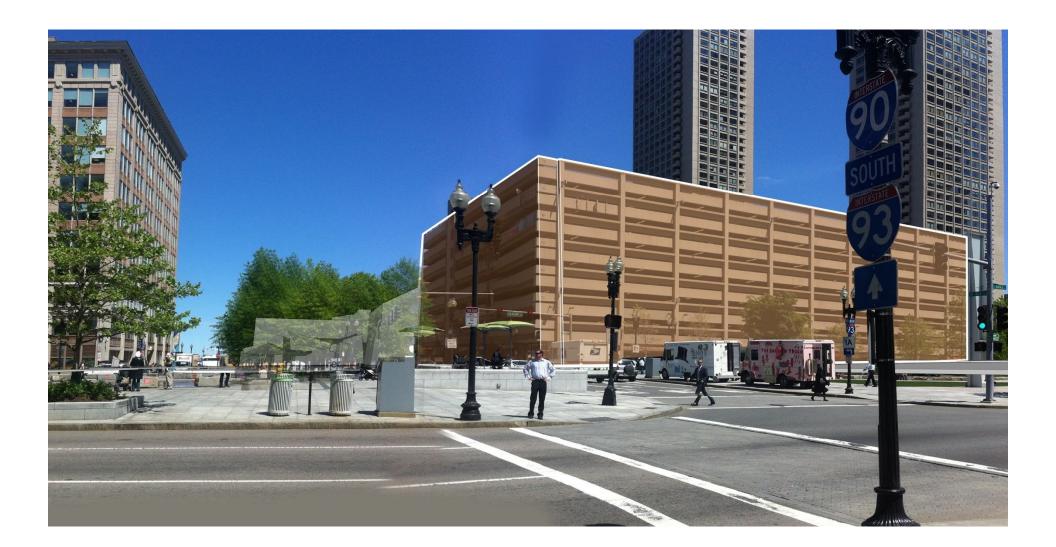
## **Open Space**

utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

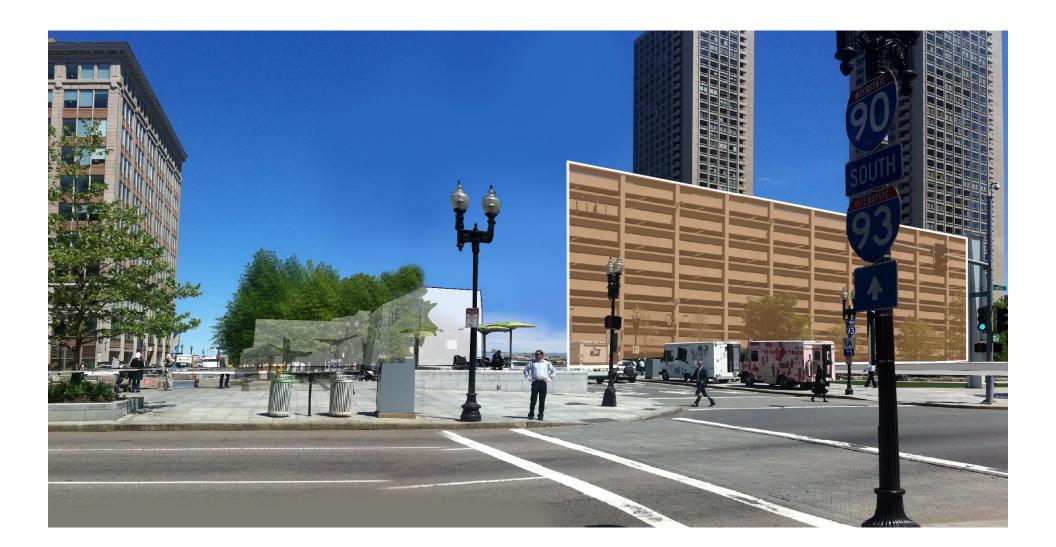
#### **Greenway District Planning Study, 2010**

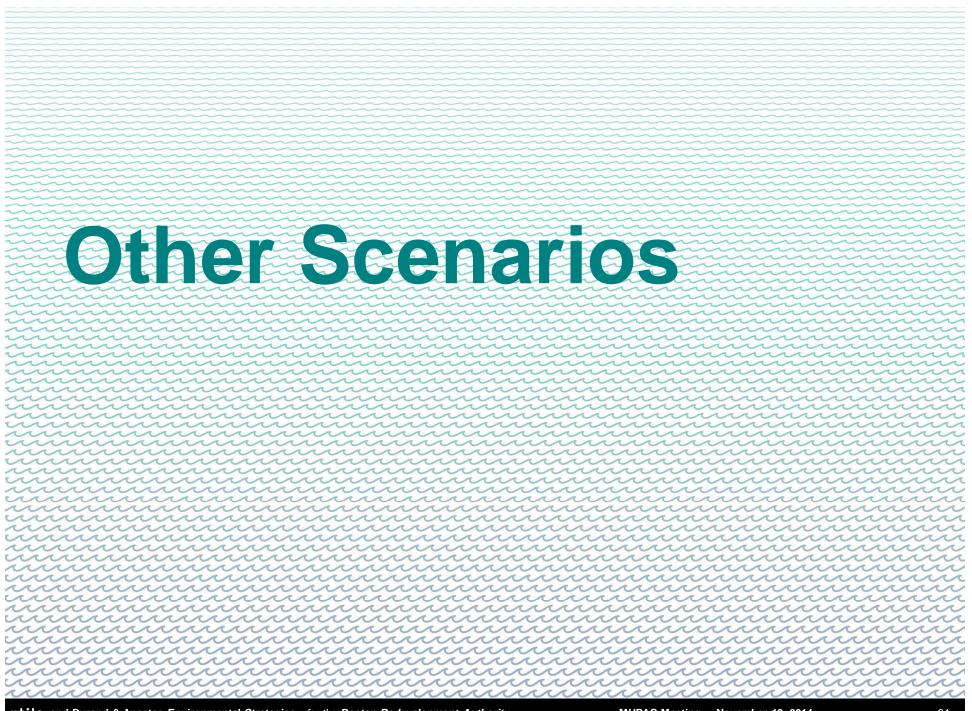


#### Overview of the Harbor Garage Parcel



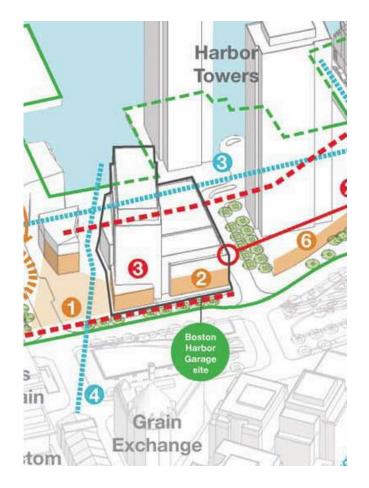
Overview of the Harbor Garage Parcel

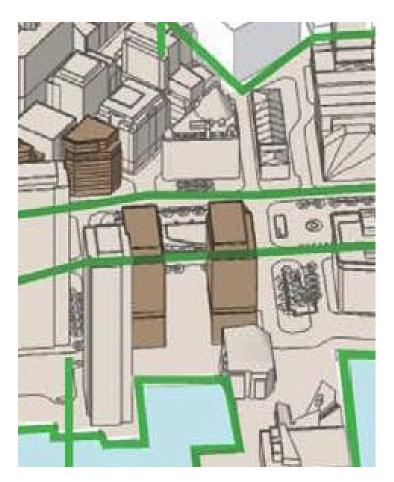




**Other Scenarios** 

## **Greenway District Planning Study**



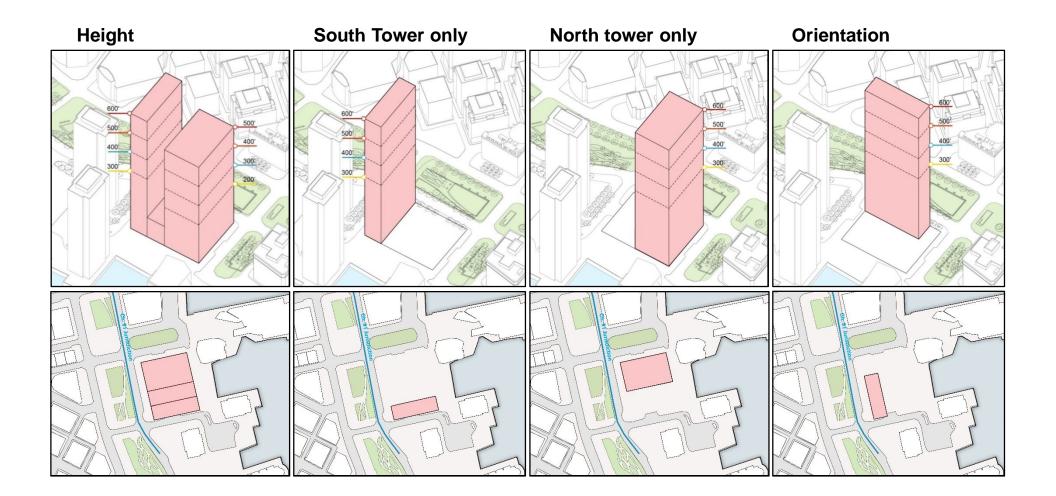


# **Alternative Scenarios**

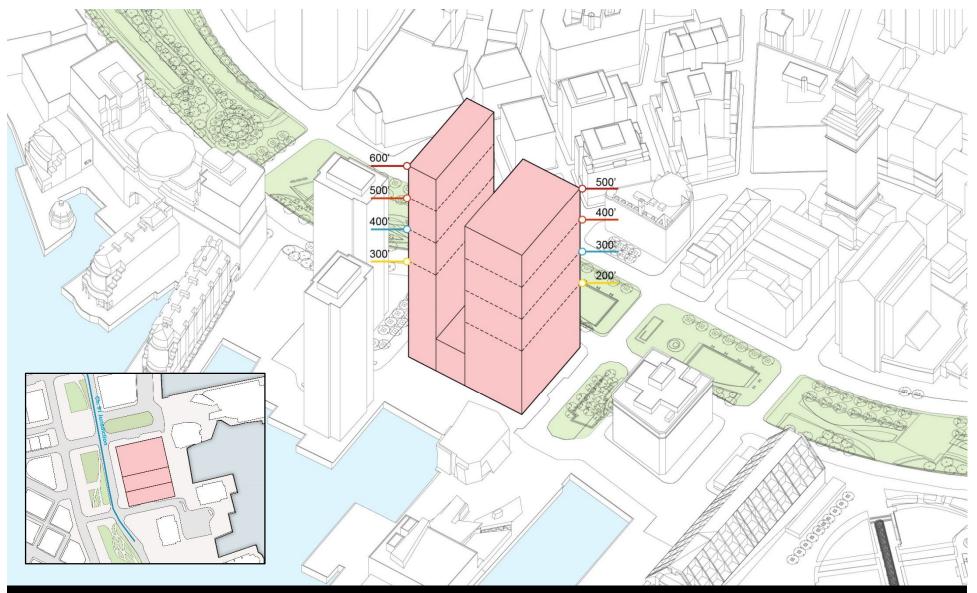
# Variables:

- Height
- One tower vs two towers
- Building Orientation
- Location of open space

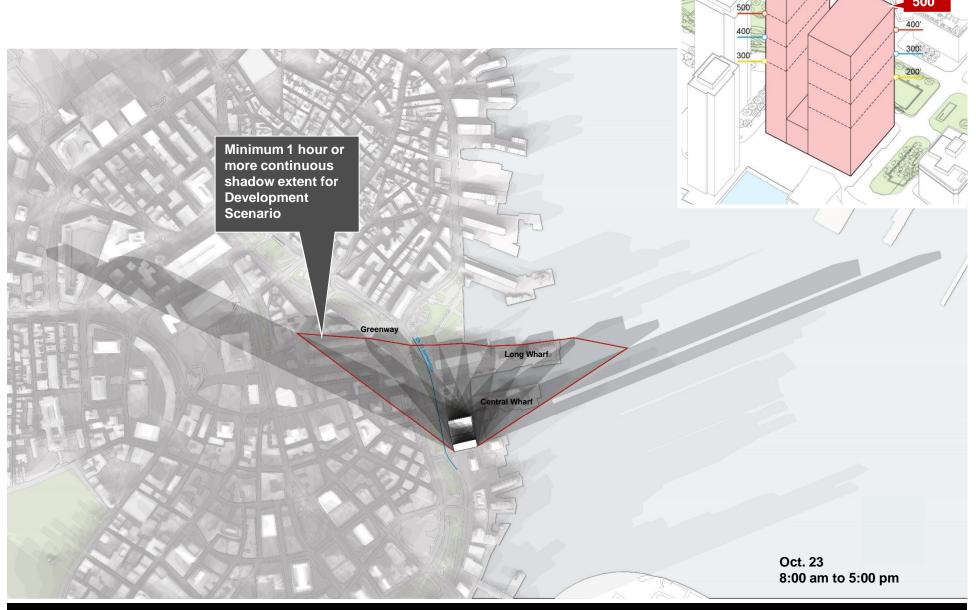
# Alternative Scenarios



# Alternative Scenarios Variable: Height



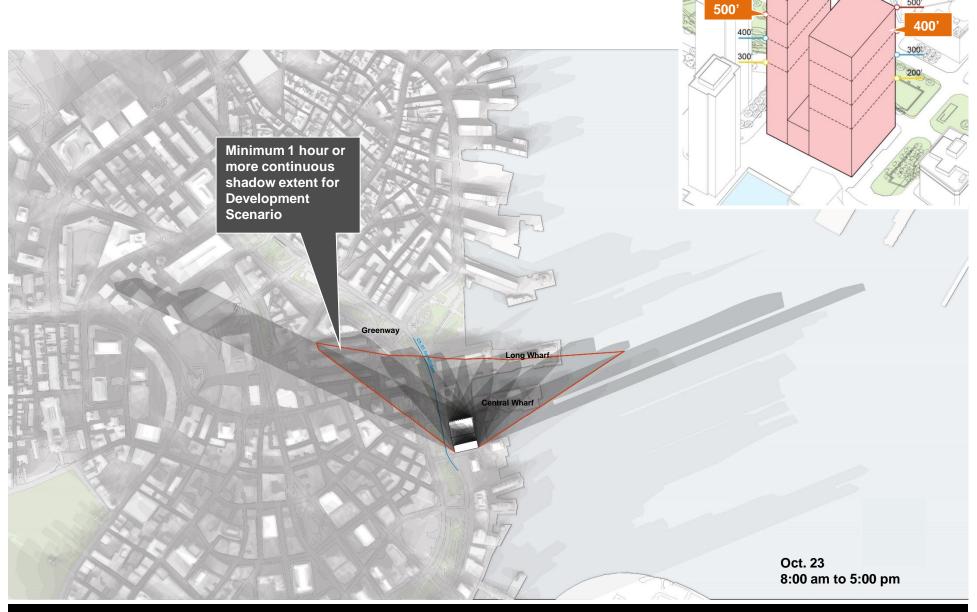
# Alternative Scenarios Two Towers – 600' & 500'



600'

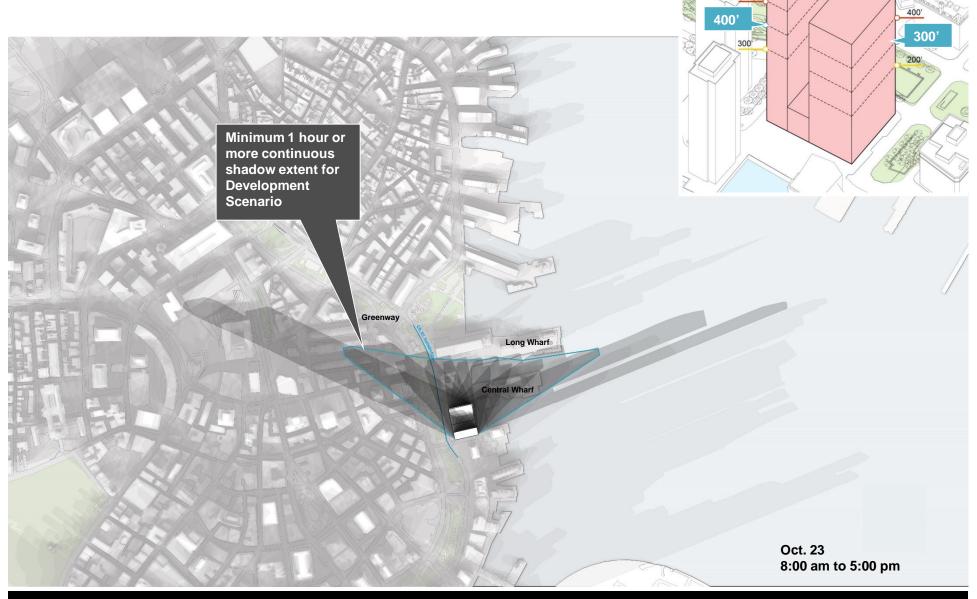
**500**'

#### **Alternative Scenarios** Two Towers - 500' & 400'



600

Ch. 91 Baseline and the Proposed Redevelopment Scenario **Two Towers – 400' & 300'** 



600

500

# Alternative Scenarios Two Towers – 300' & 200'



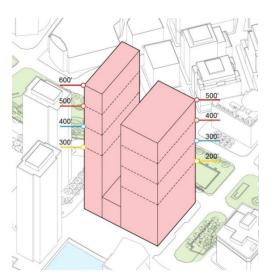
## Alternative Scenarios **Two Towers – Oct. 23**

Minimum 1 hour or more continuous shadow extent for 300' & 200' Towers Scenario

Minimum 1 hour or more continuous shadow extent for 400' & 300' Towers Scenario

Minimum 1 hour or more continuous shadow extent for 500' & 400' Towers Scenario

Minimum 1 hour or more continuous shadow extent for 600' & 500' Towers Scenario



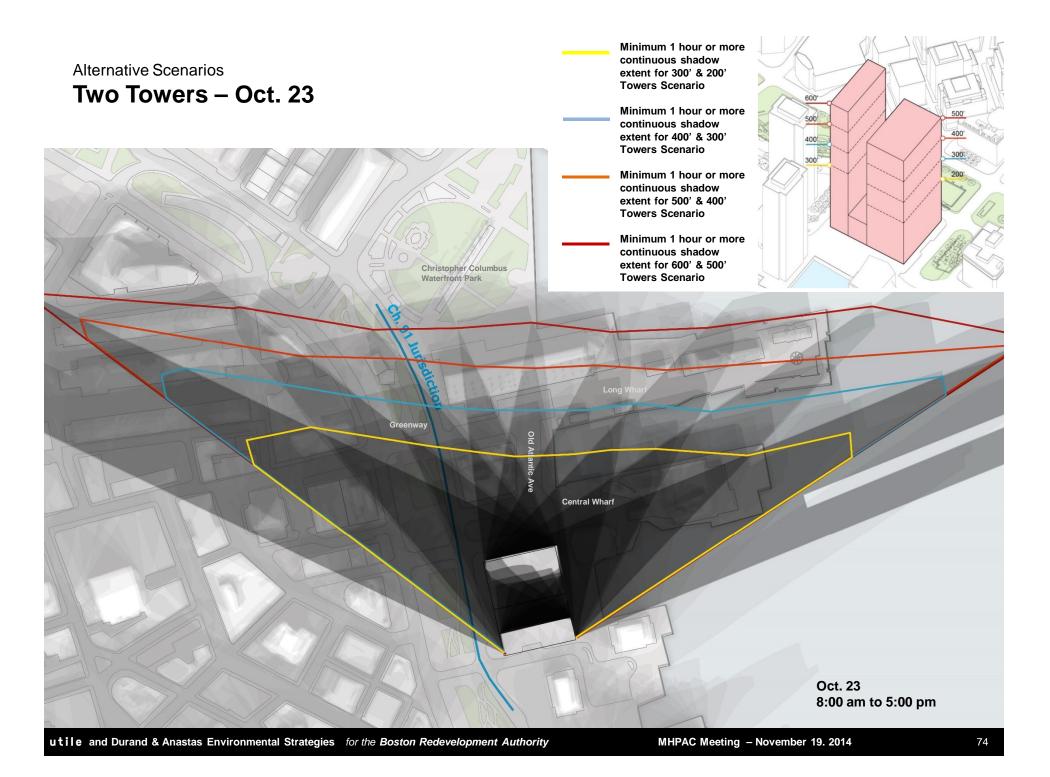
Greenway

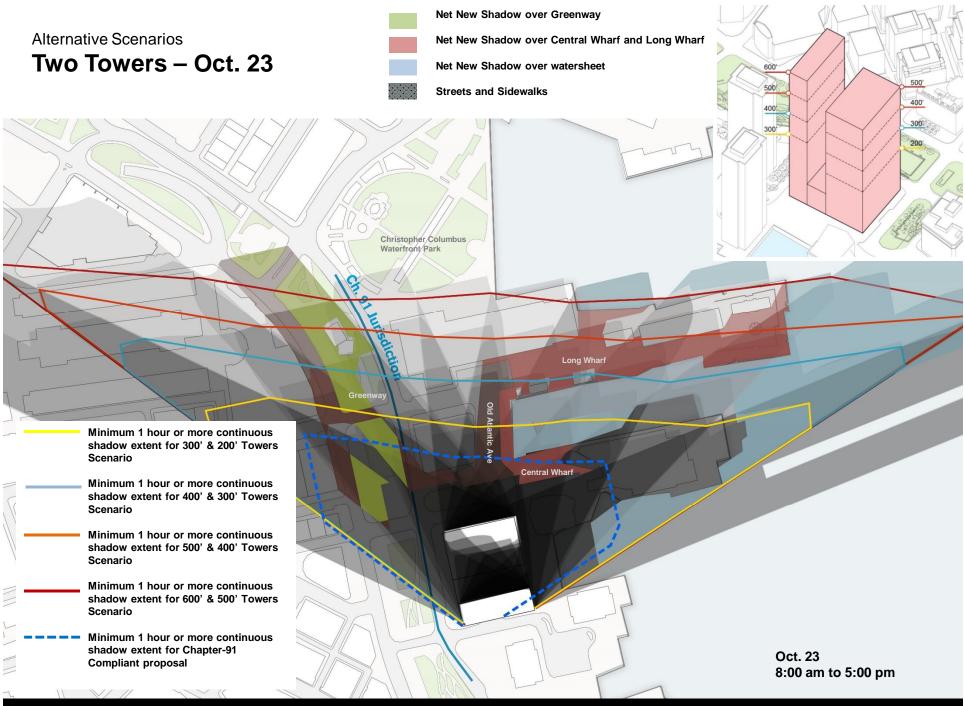
Long Wharf

al Wharf

Oct. 23

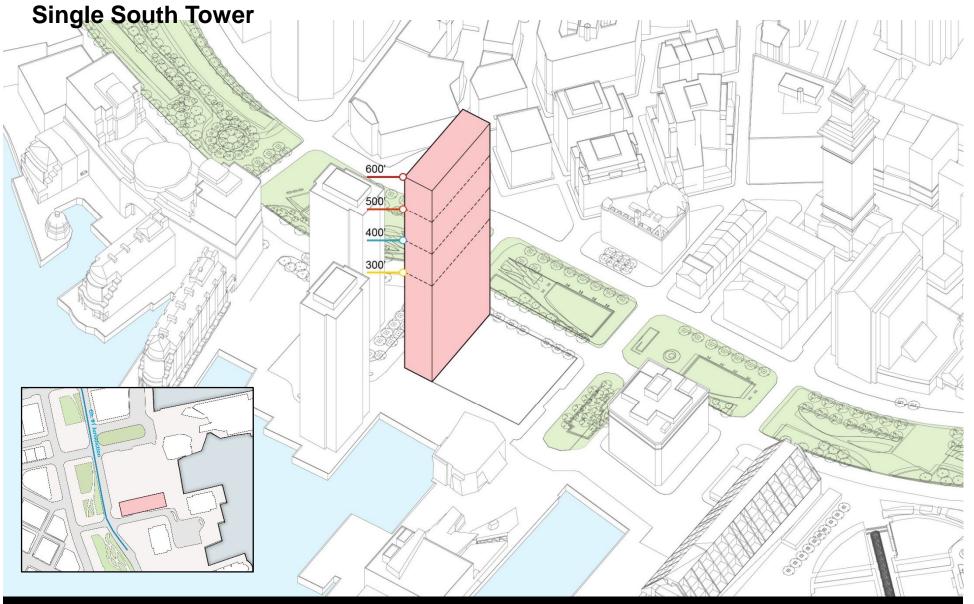
8:00 am to 5:00 pm





### **Alternative Scenarios**

## Variable: Number of Towers & Location



## Alternative Scenarios Single South Tower – 600'



600'

## Alternative Scenarios Single South Tower – 500'



## Alternative Scenarios Single South Tower – 400'



## Alternative Scenarios Single South Tower – 300'



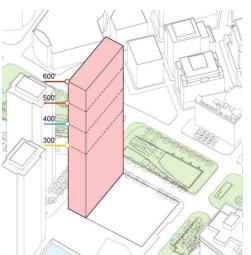
utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

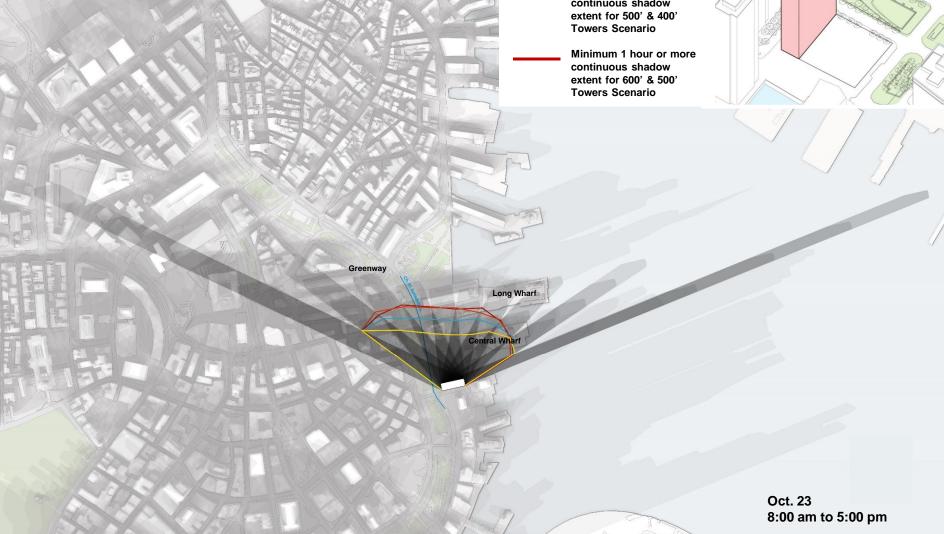
### **Alternative Scenarios** Single South Tower – Oct. 23<sup>rd</sup>

Minimum 1 hour or more continuous shadow extent for 300' & 200' **Towers Scenario** 

Minimum 1 hour or more continuous shadow extent for 400' & 300' **Towers Scenario** 

Minimum 1 hour or more continuous shadow extent for 500' & 400' **Towers Scenario** 



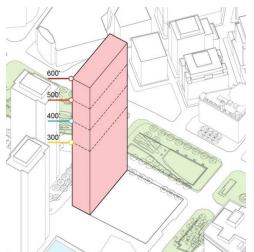


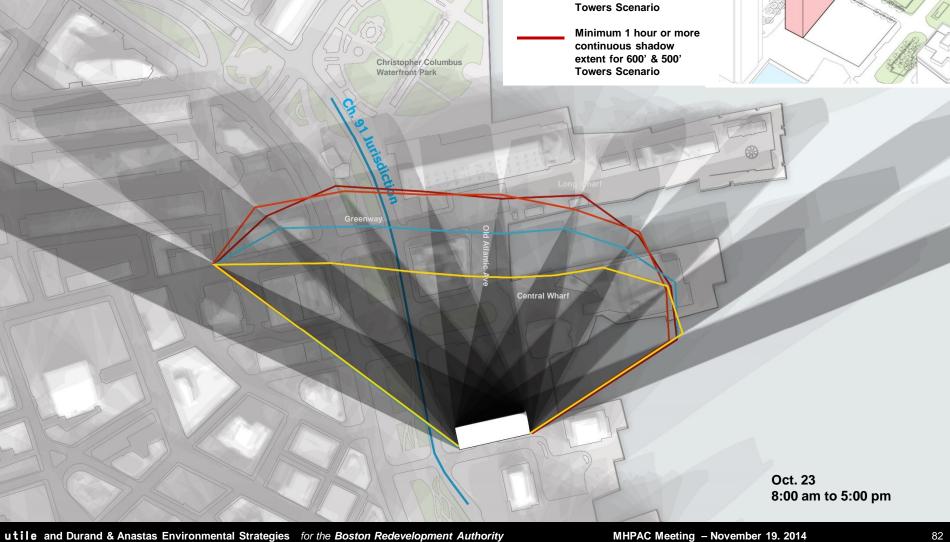
### Alternative Scenarios Single South Tower – Oct. 23<sup>rd</sup>

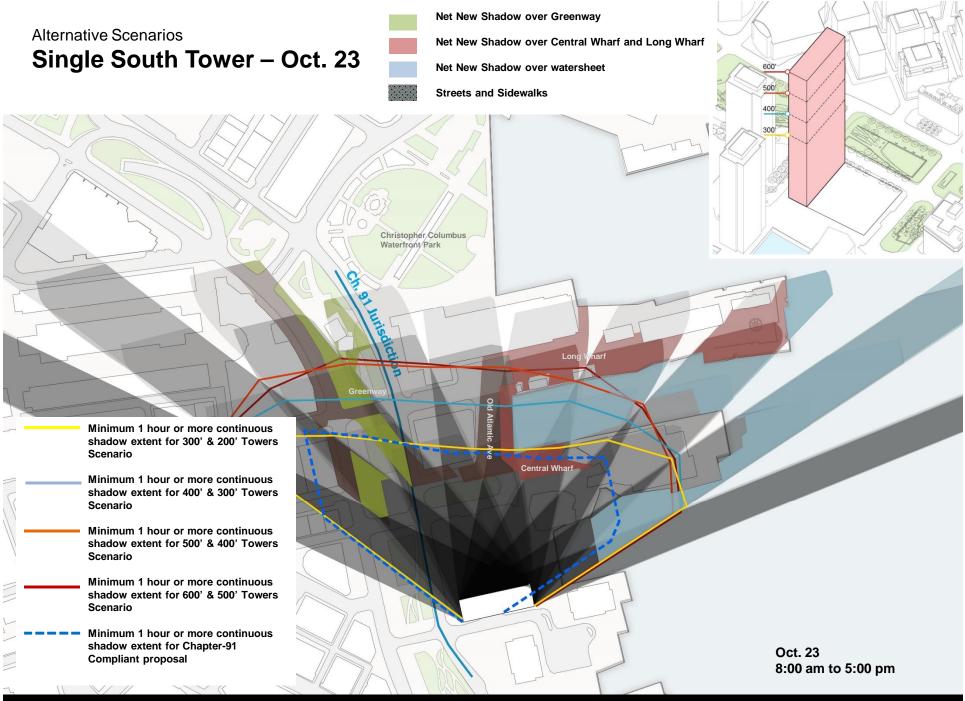
Minimum 1 hour or more continuous shadow extent for 300' & 200' Towers Scenario

Minimum 1 hour or more continuous shadow extent for 400' & 300' Towers Scenario

Minimum 1 hour or more continuous shadow extent for 500' & 400' Towers Scenario

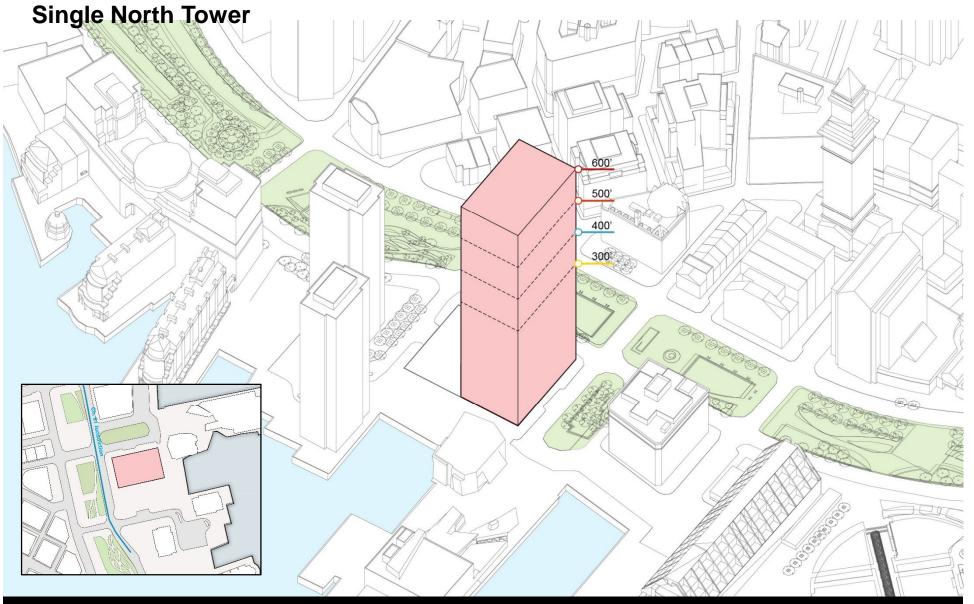




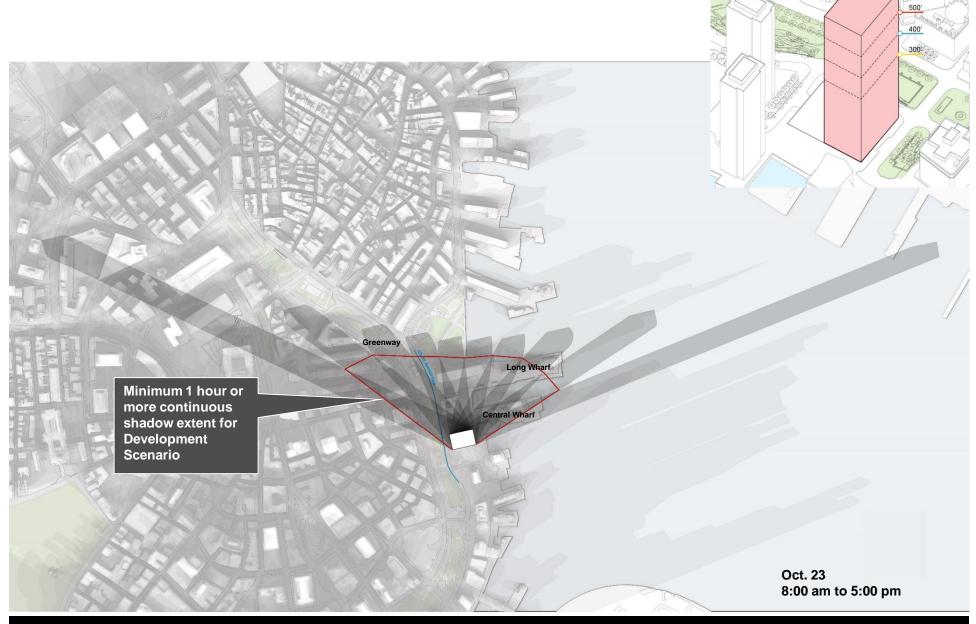


### **Alternative Scenarios**

## Variable: Number of Towers & Location



Ch. 91 Baseline and the Proposed Redevelopment Scenario Single North Tower - 600'



Ch. 91 Baseline and the Proposed Redevelopment Scenario Single North Tower - 500'



Ch. 91 Baseline and the Proposed Redevelopment Scenario Single North Tower - 400'



Ch. 91 Baseline and the Proposed Redevelopment Scenario Single North Tower - 300'



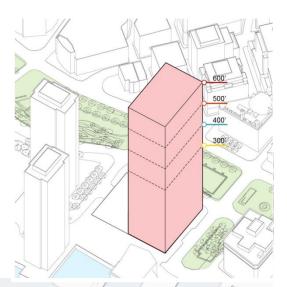
utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

## Alternative Scenarios Single North Tower – Oct. 23

 Minimum 1 hour or more continuous shadow extent for 300'

- Minimum 1 hour or more continuous shadow extent for 400'
- Minimum 1 hour or more continuous shadow extent for 500'

 Minimum 1 hour or more continuous shadow extent for 600'



Oct. 23 8:00 am to 5:00 pm



Greenway

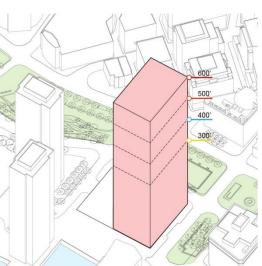
Long Whar

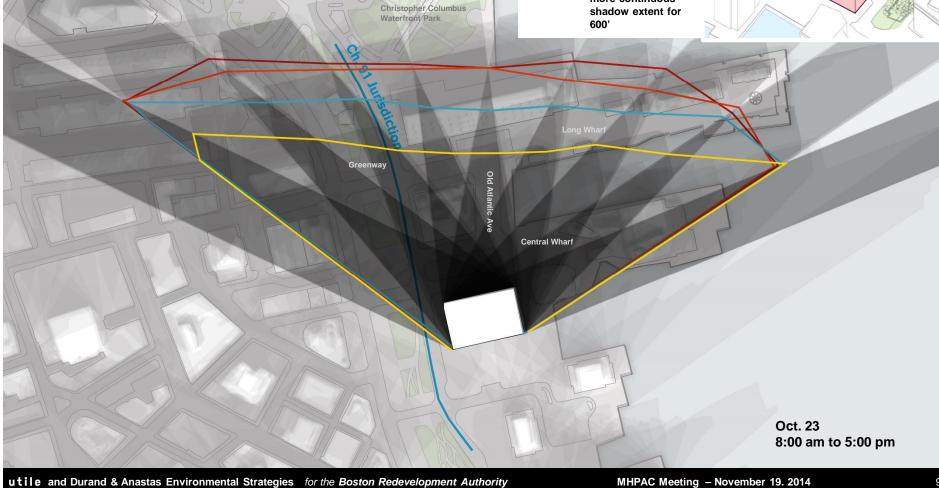
### **Alternative Scenarios** Single North Tower – Oct. 23

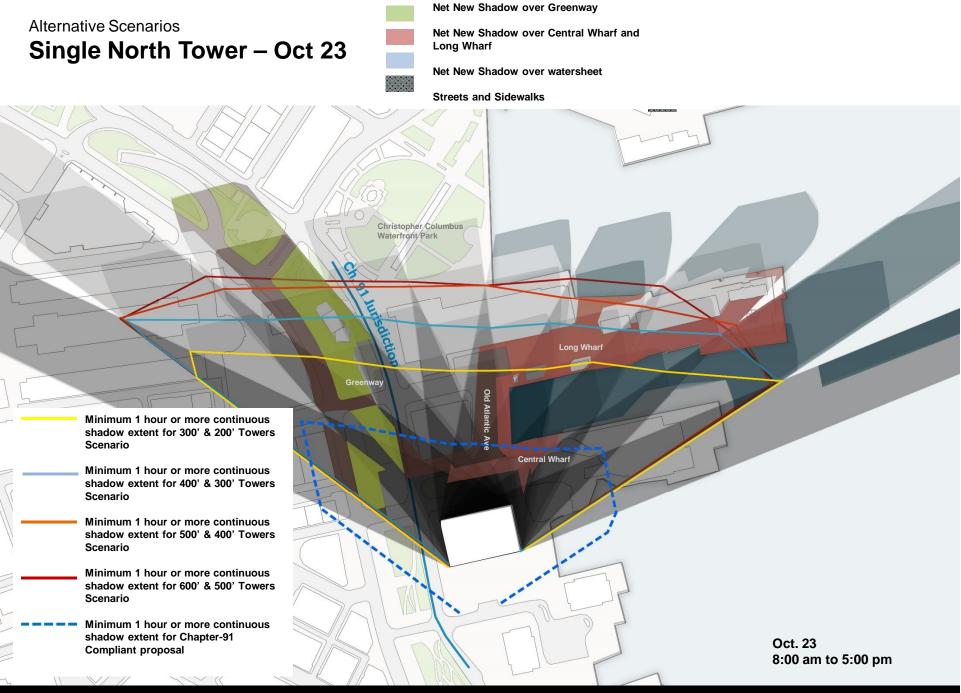
Minimum 1 hour or more continuous shadow extent for 300'

- Minimum 1 hour or more continuous shadow extent for 400'
- Minimum 1 hour or more continuous shadow extent for **500**'

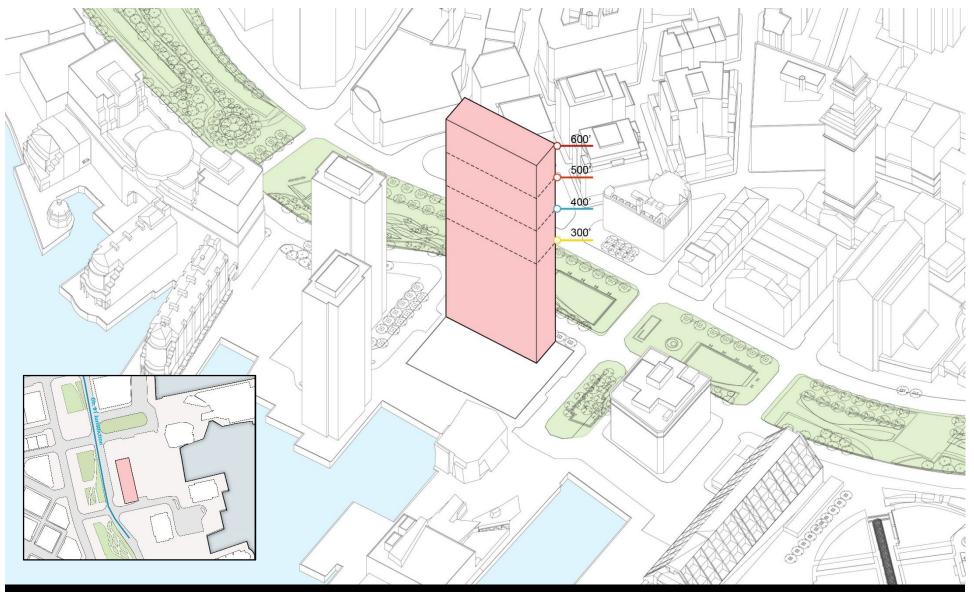
Minimum 1 hour or more continuous shadow extent for **600**'



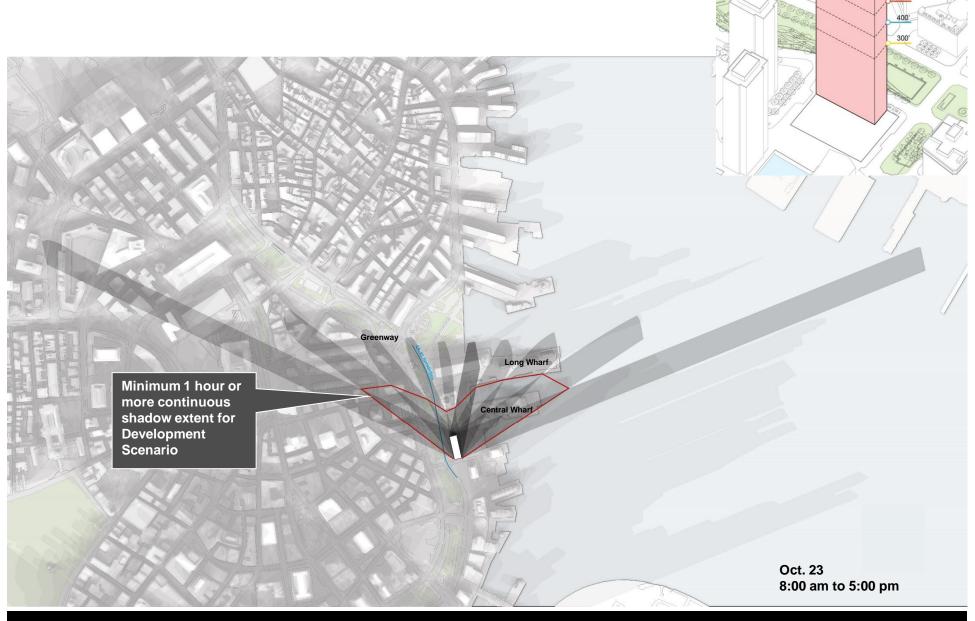




## Alternative Scenarios Variable: Building Orientation



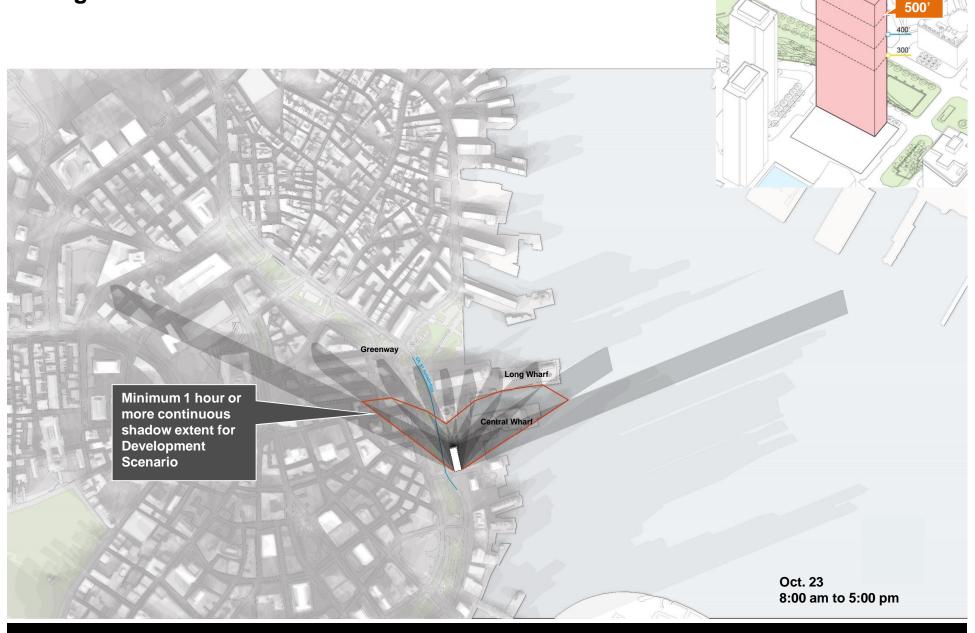
## Alternative Scenarios Single West Tower – 600'



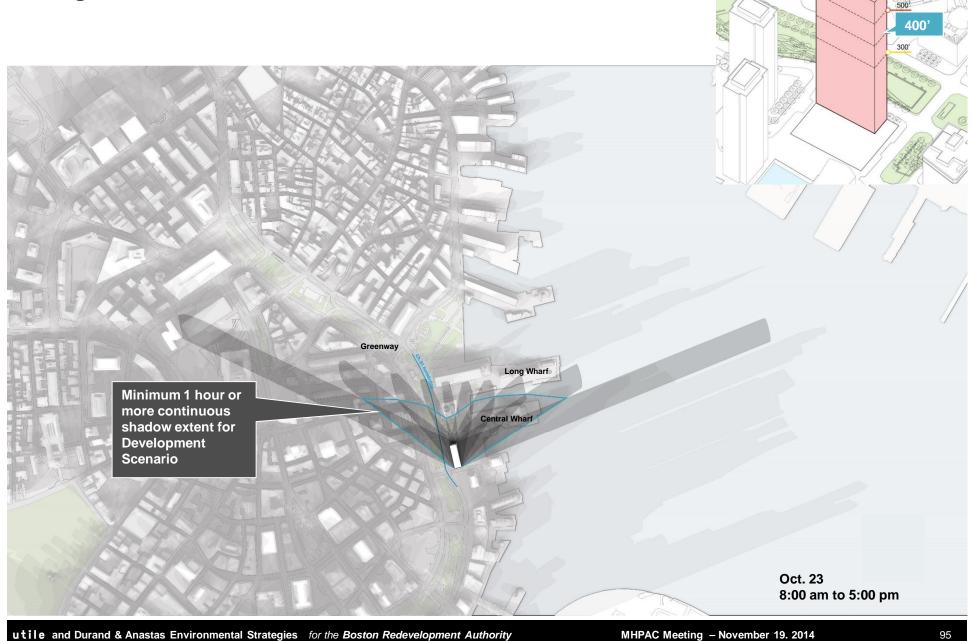
utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

600

## Alternative Scenarios Single West Tower – 500'



### **Alternative Scenarios** Single West Tower – 400'



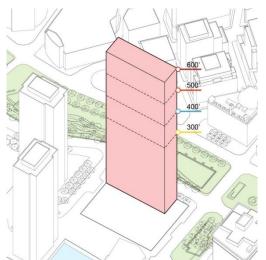
## Alternative Scenarios Single West Tower – 300'

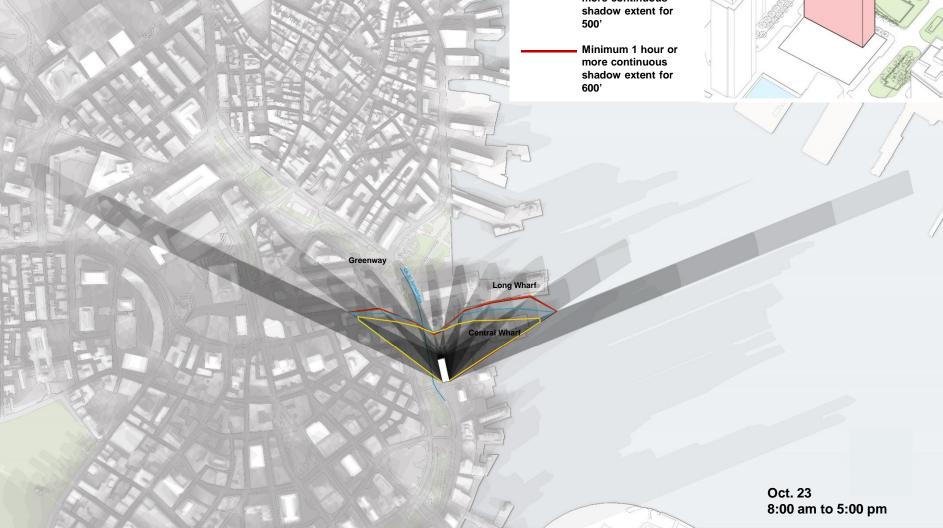


### **Alternative Scenarios** Single West Tower – Oct. 23

Minimum 1 hour or more continuous shadow extent for 300'

- Minimum 1 hour or more continuous shadow extent for 400'
- Minimum 1 hour or more continuous shadow extent for **500'**

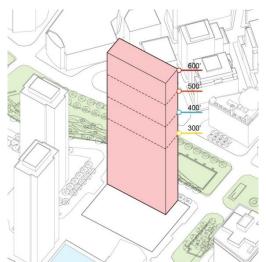


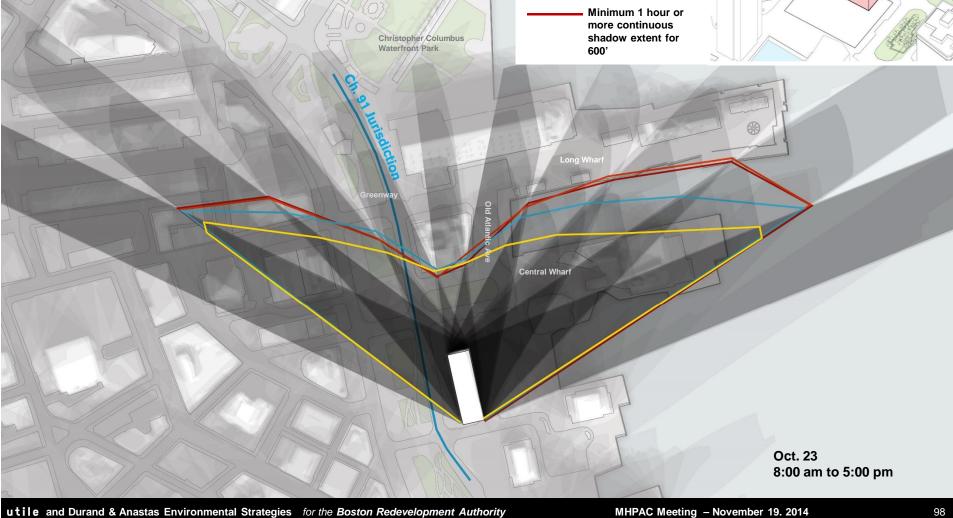


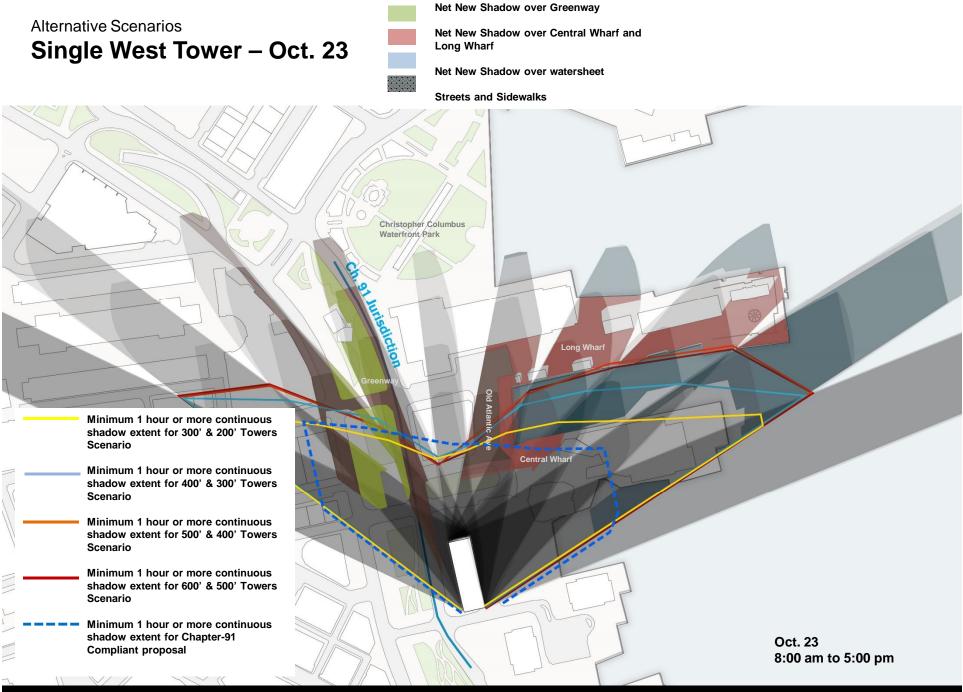
### **Alternative Scenarios** Single West Tower – Oct. 23

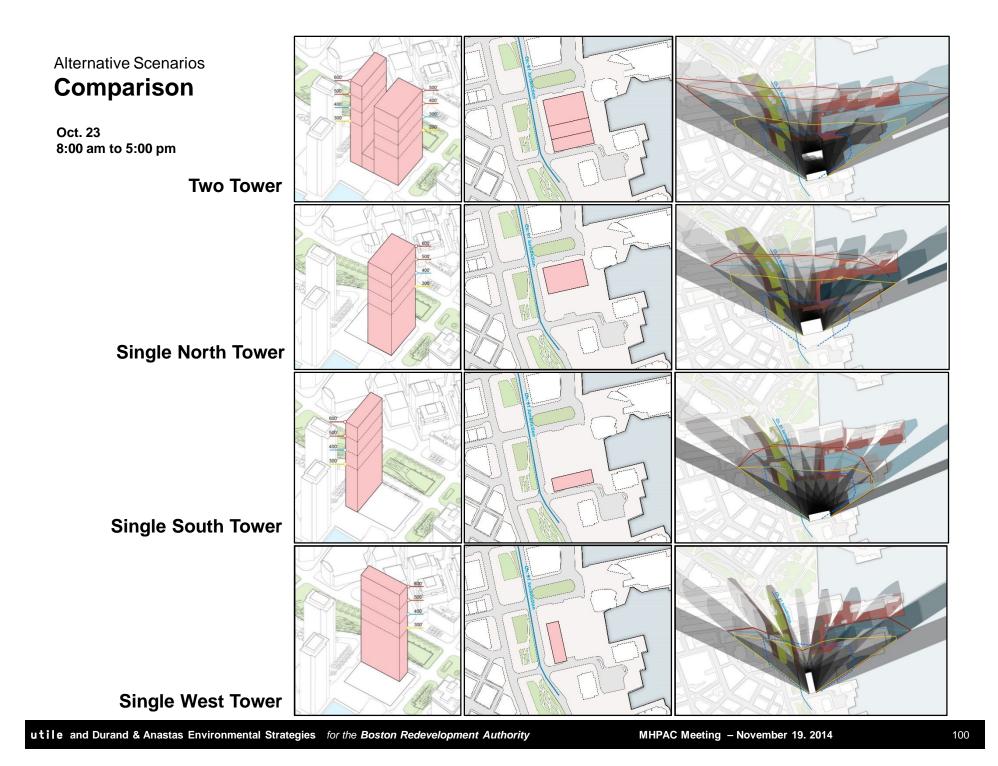
Minimum 1 hour or more continuous shadow extent for 300'

- Minimum 1 hour or more continuous shadow extent for 400'
- Minimum 1 hour or more continuous shadow extent for **500'**





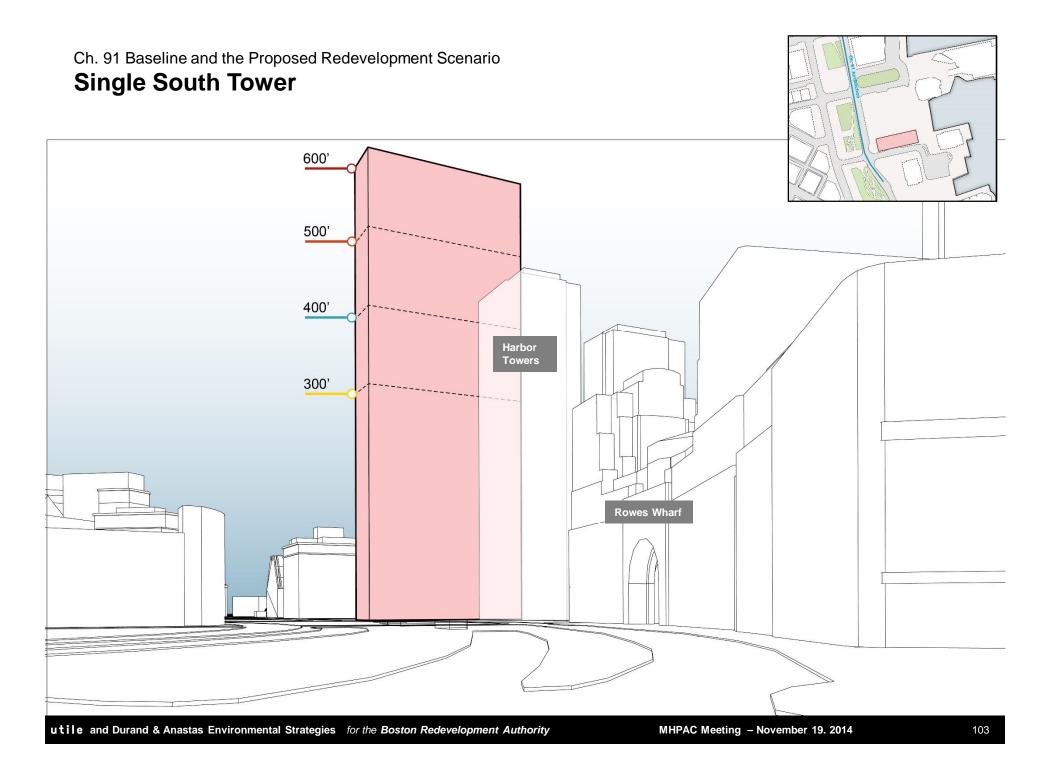


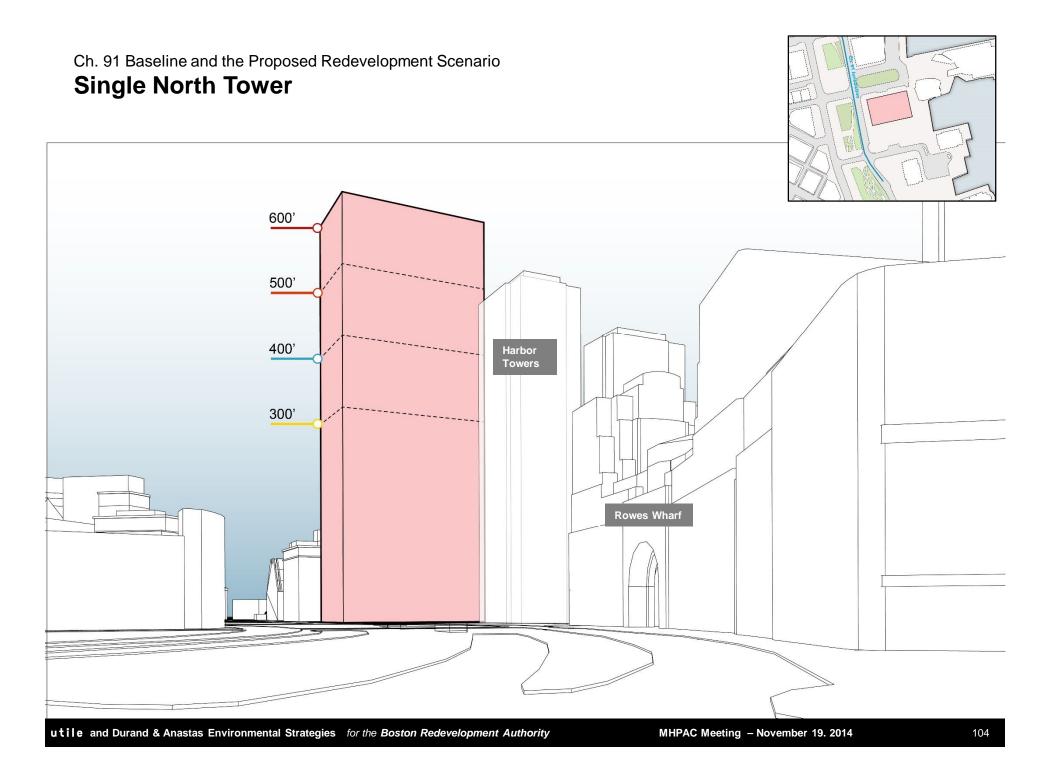


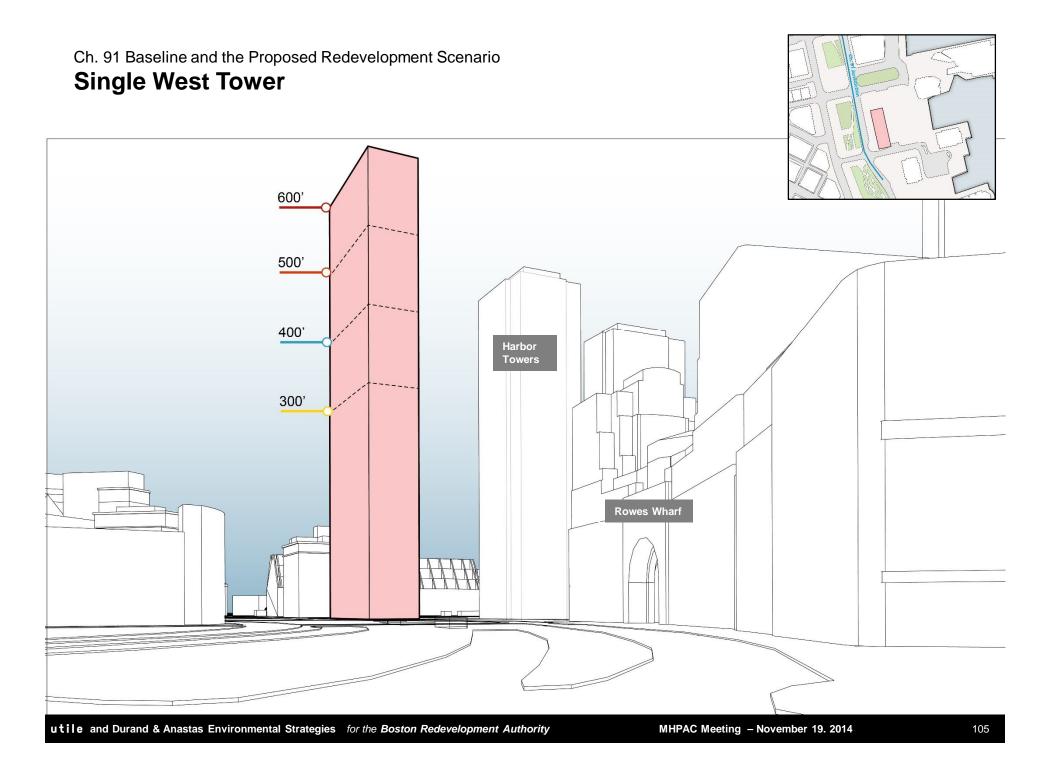
# **Alternative Scenarios: Ground-level Views**

Alternative Scenarios – Ground-level Views **Two Tower** 



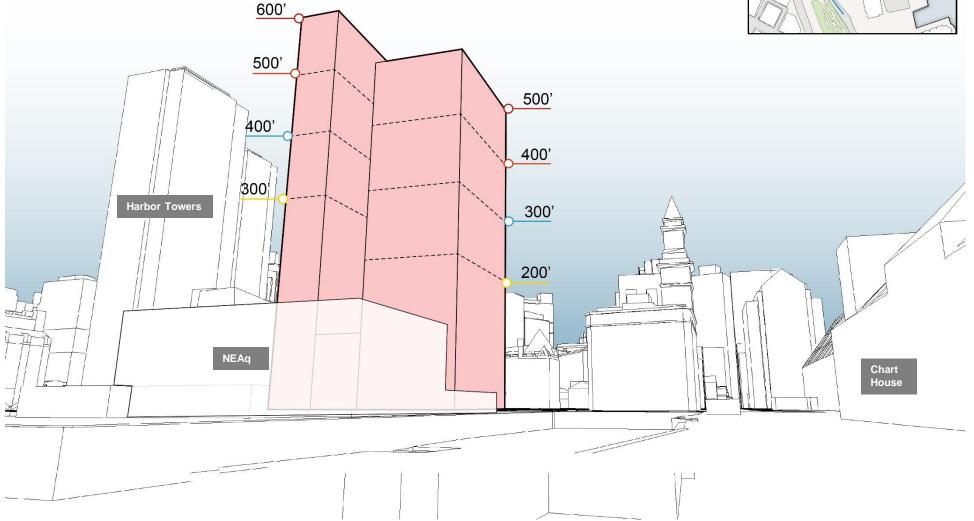




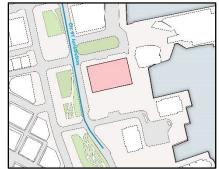


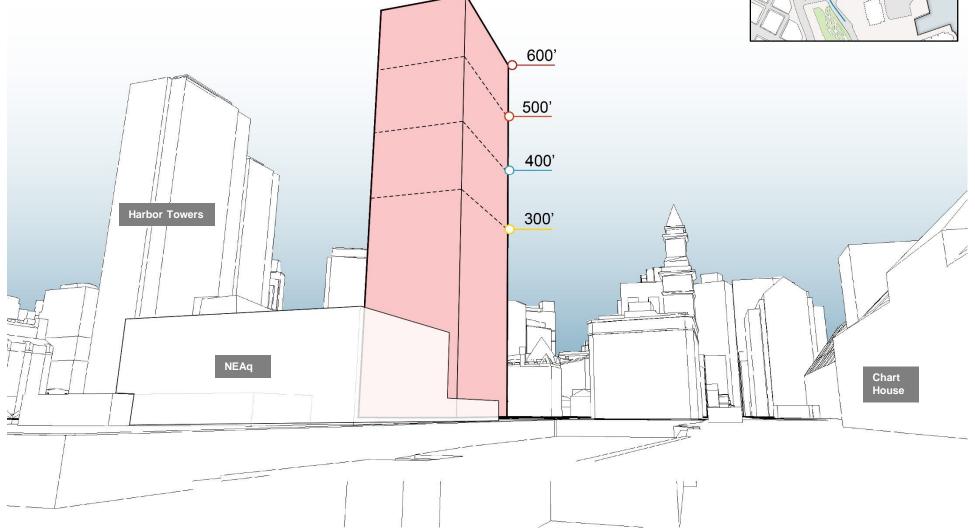
## Ch. 91 Baseline and the Proposed Redevelopment Scenario **Two Tower**





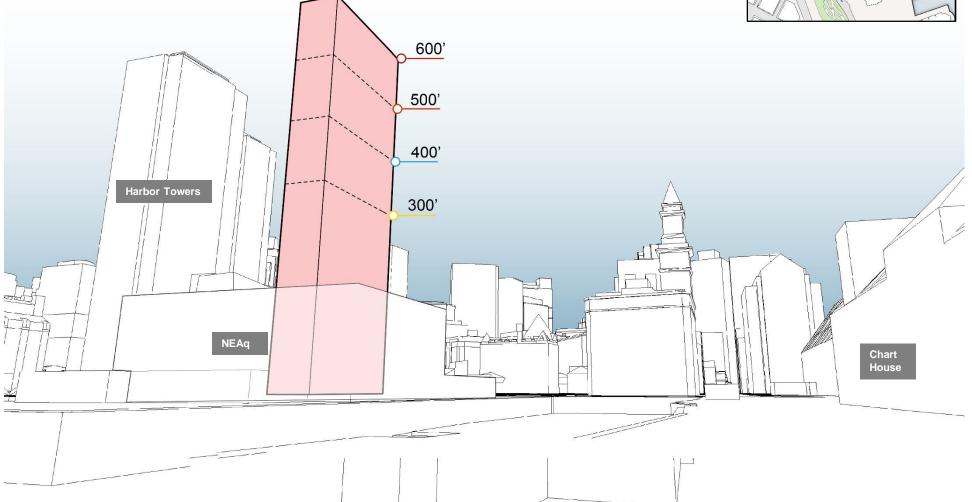
## Ch. 91 Baseline and the Proposed Redevelopment Scenario **Single North Tower**





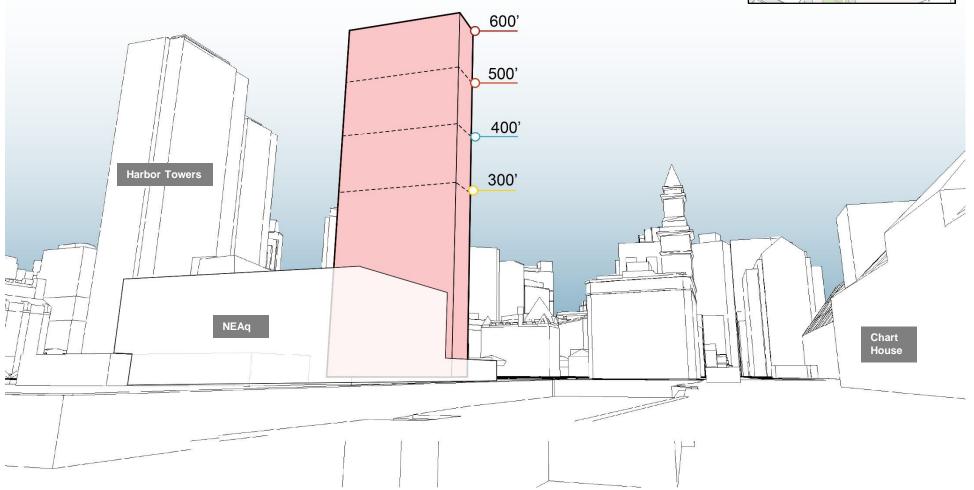
## Ch. 91 Baseline and the Proposed Redevelopment Scenario **Single South Tower**





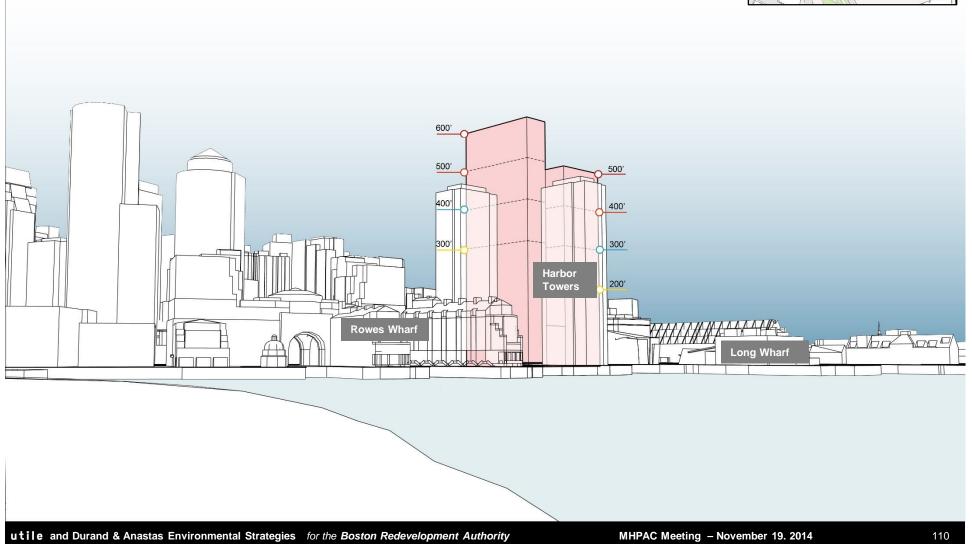
## Ch. 91 Baseline and the Proposed Redevelopment Scenario **Single West Tower**



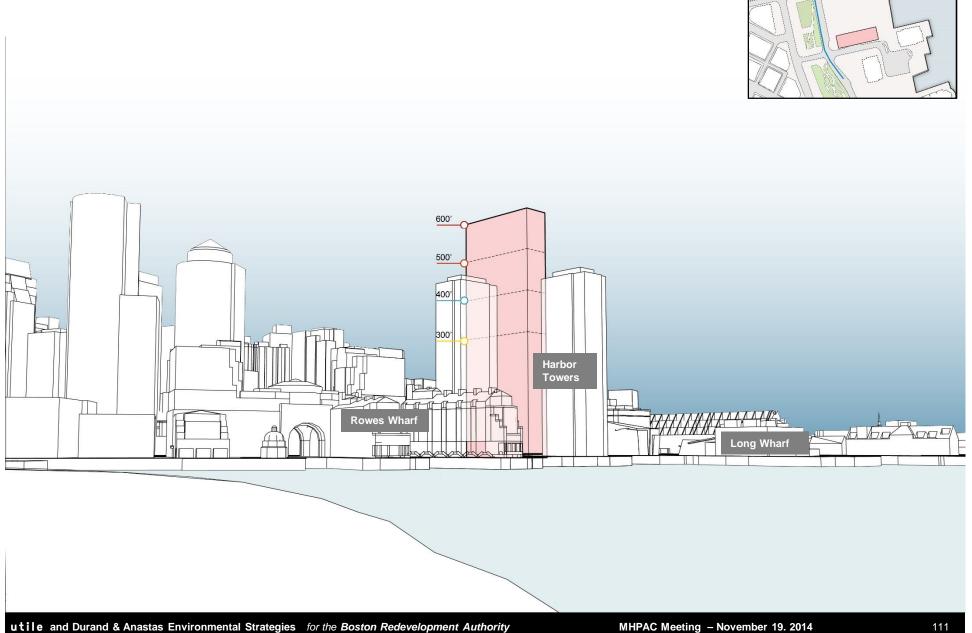


Alternative Scenarios – Ground-level Views



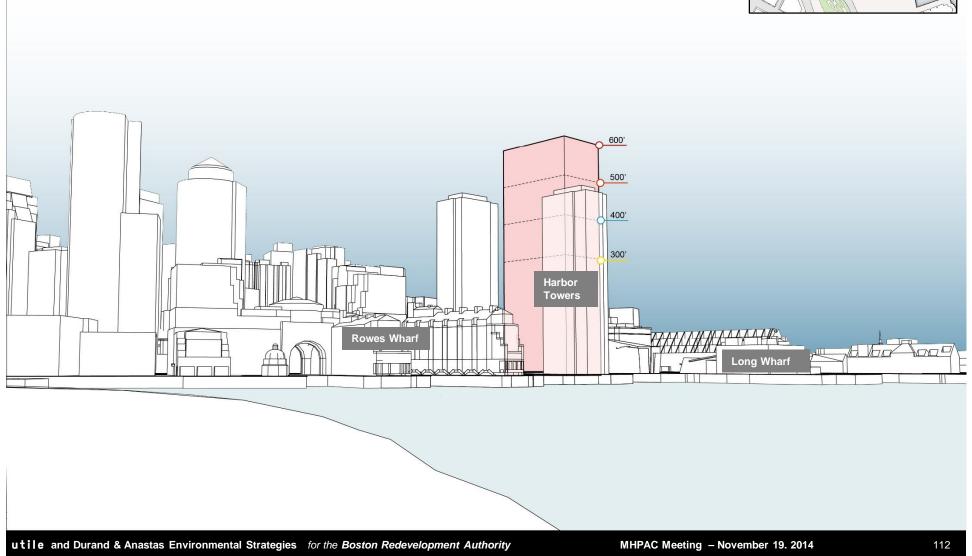


Ch. 91 Baseline and the Proposed Redevelopment Scenario Single South Tower

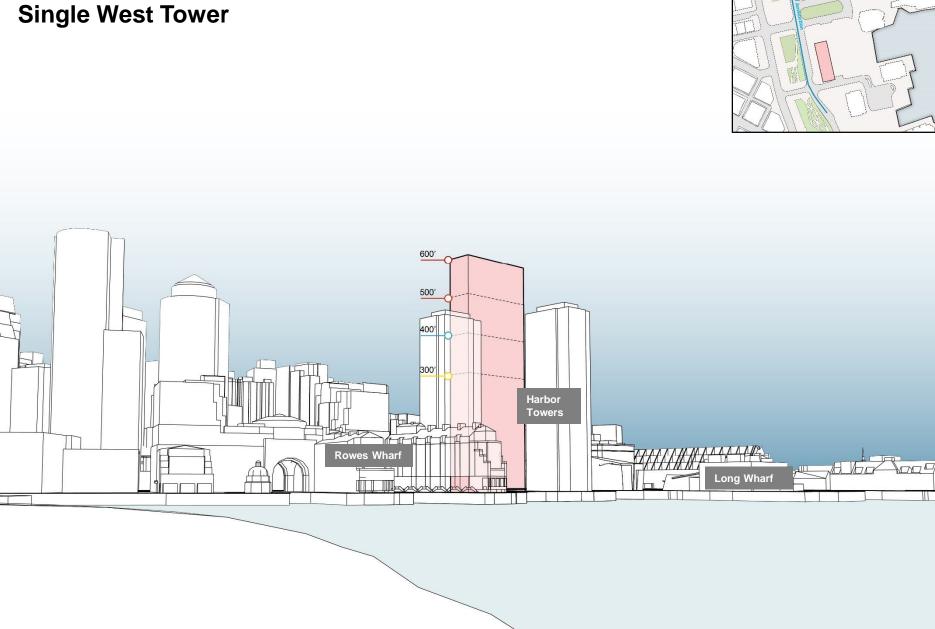


Ch. 91 Baseline and the Proposed Redevelopment Scenario **Single North Tower** 

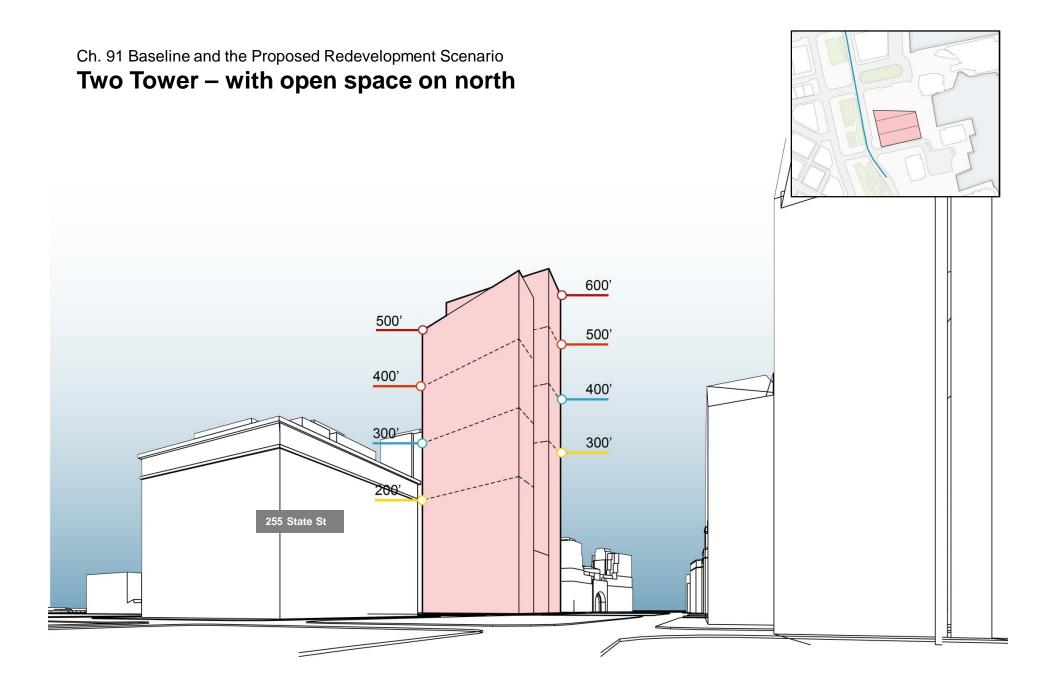


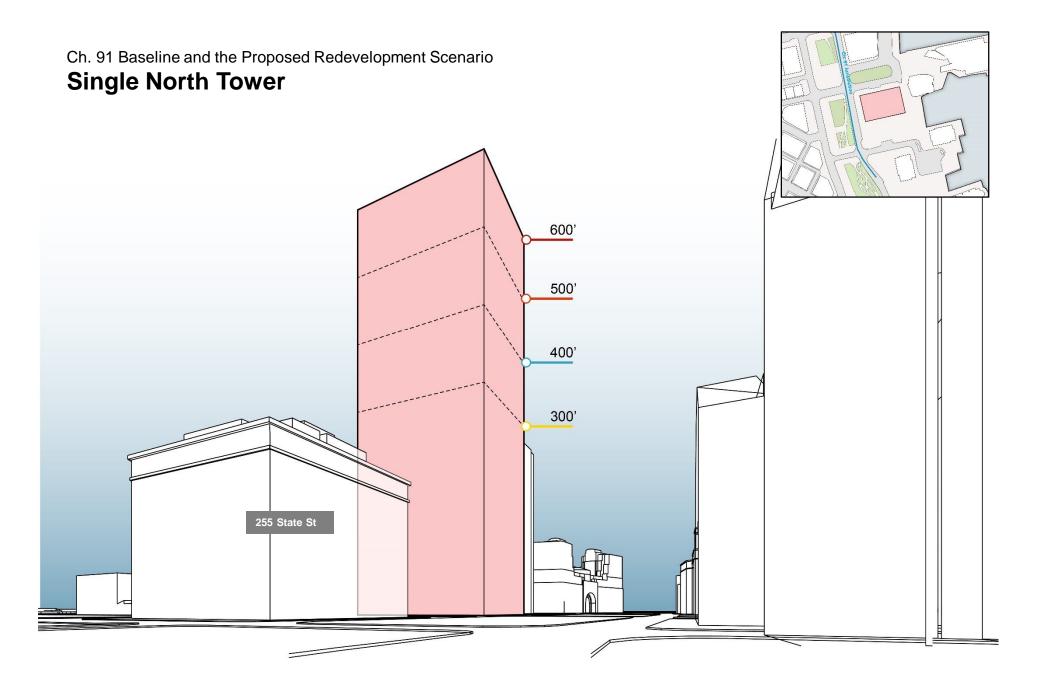


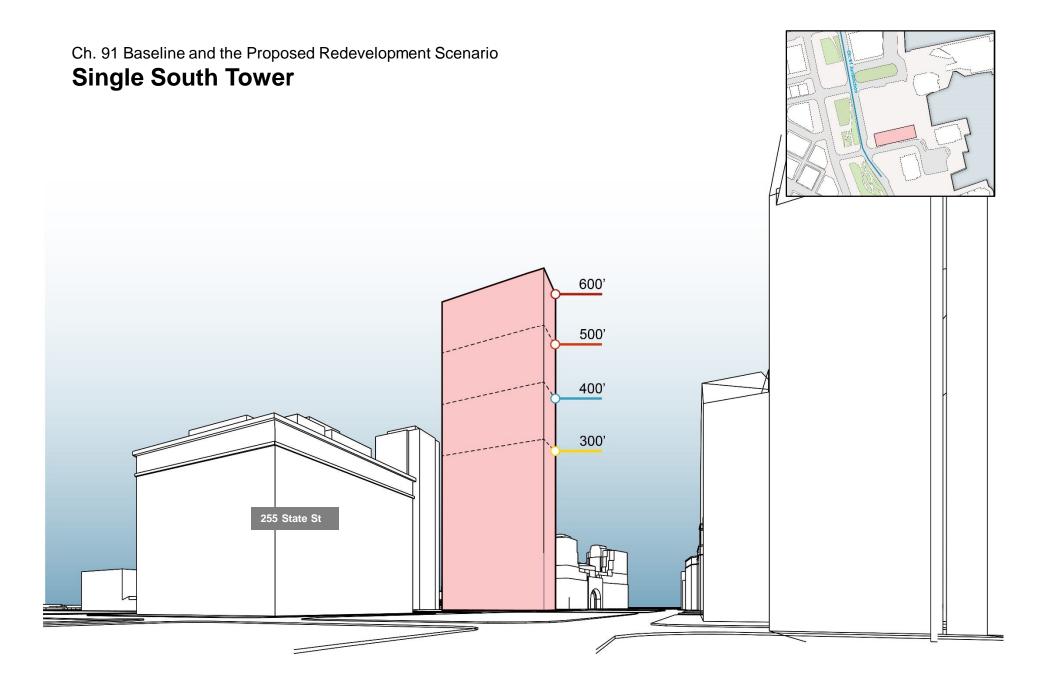
Ch. 91 Baseline and the Proposed Redevelopment Scenario

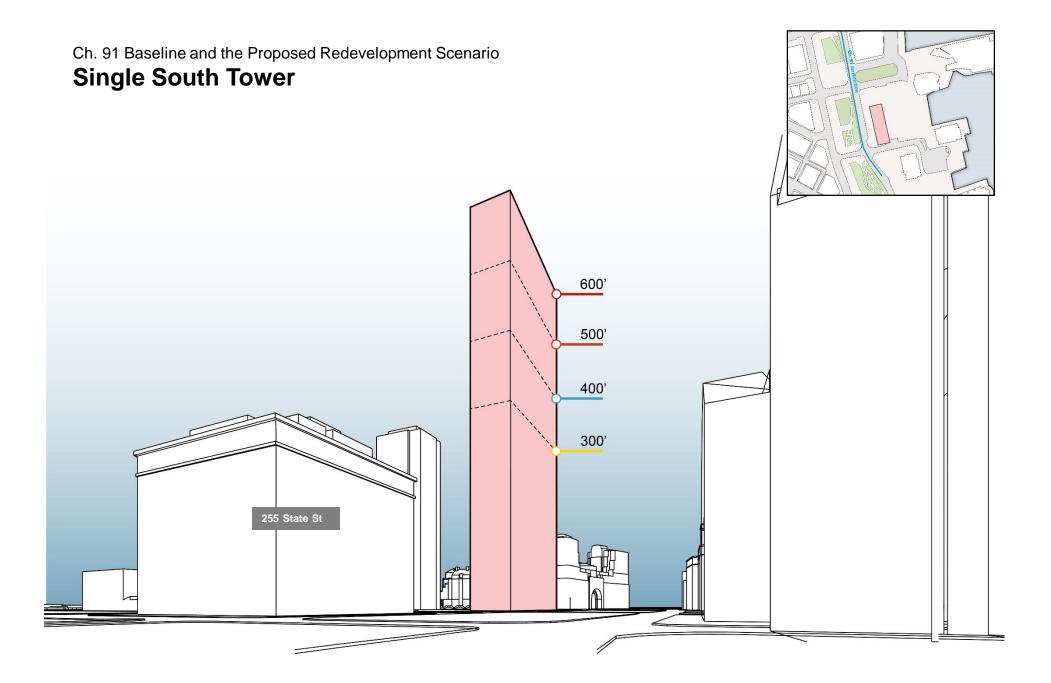


MHPAC Meeting – November 19. 2014





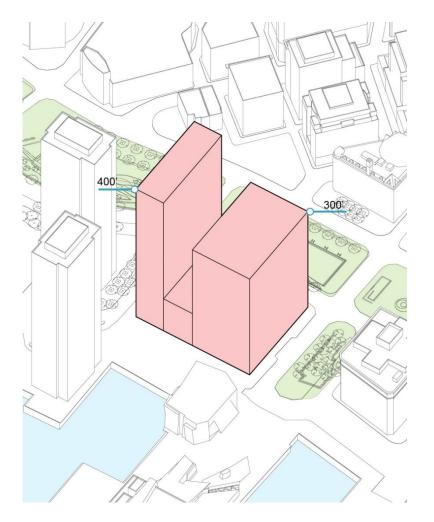




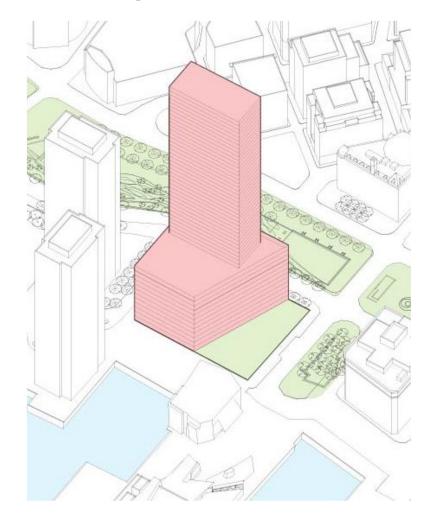
# Scenarios for consideration of the MHPAC

### **Overall Comparison**

### 400' & 300' Two Tower

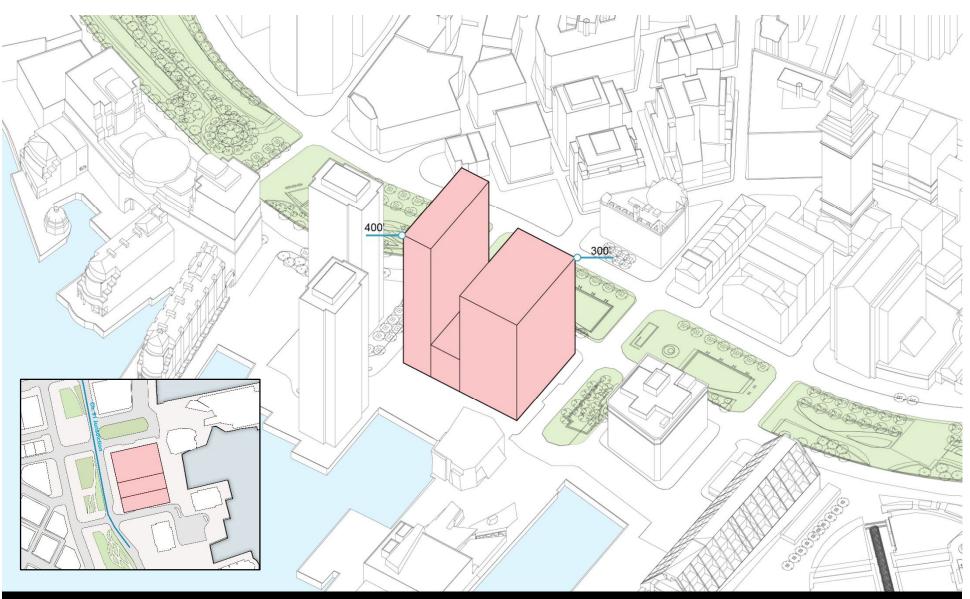


### 600' Single South Tower

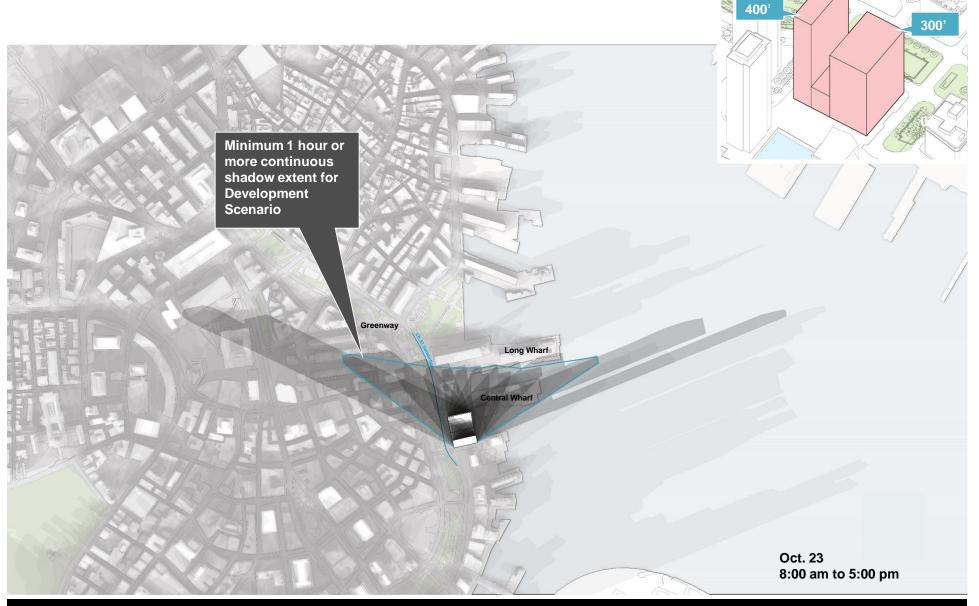


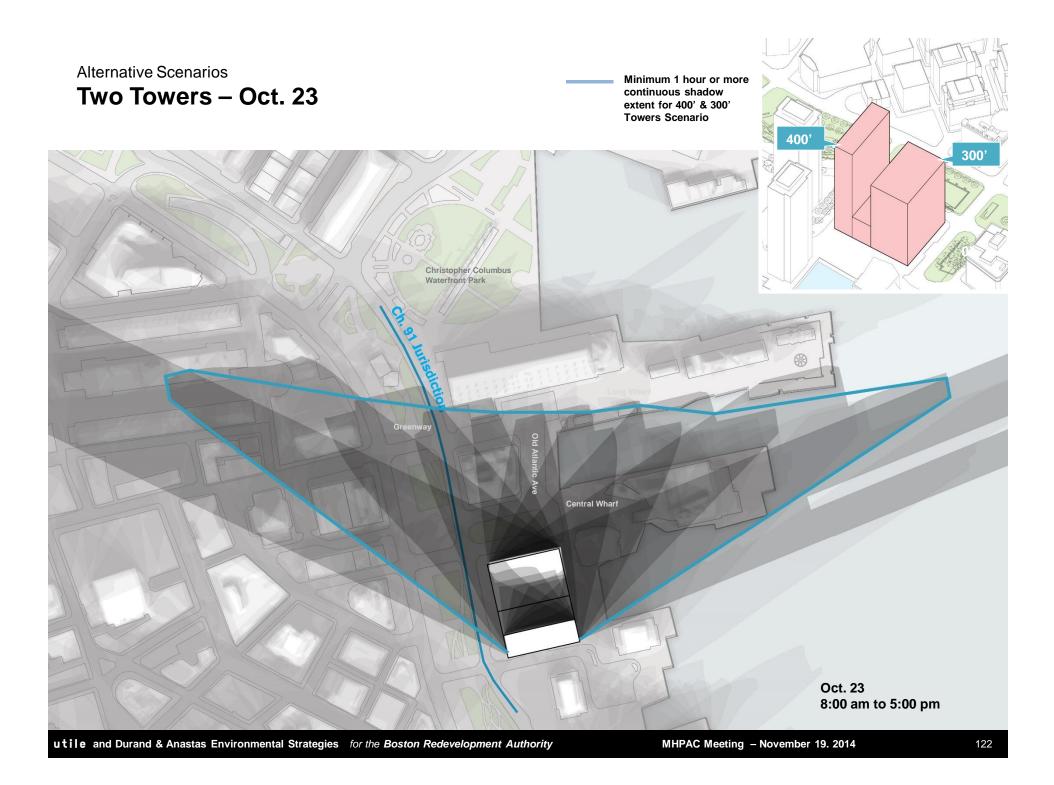
### **Two Towers – 400' and 300'**

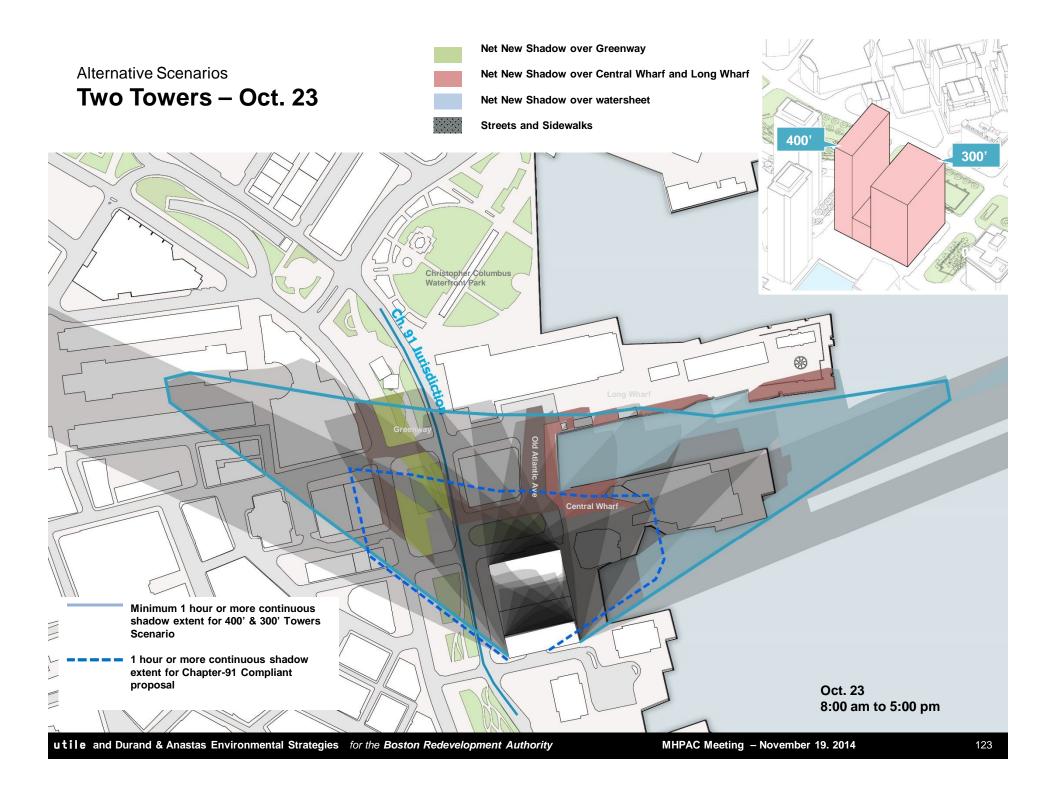
100% Building Footprint Lot Coverage 0% Open Space



## Alternative Scenarios Two Towers – 400' & 300'

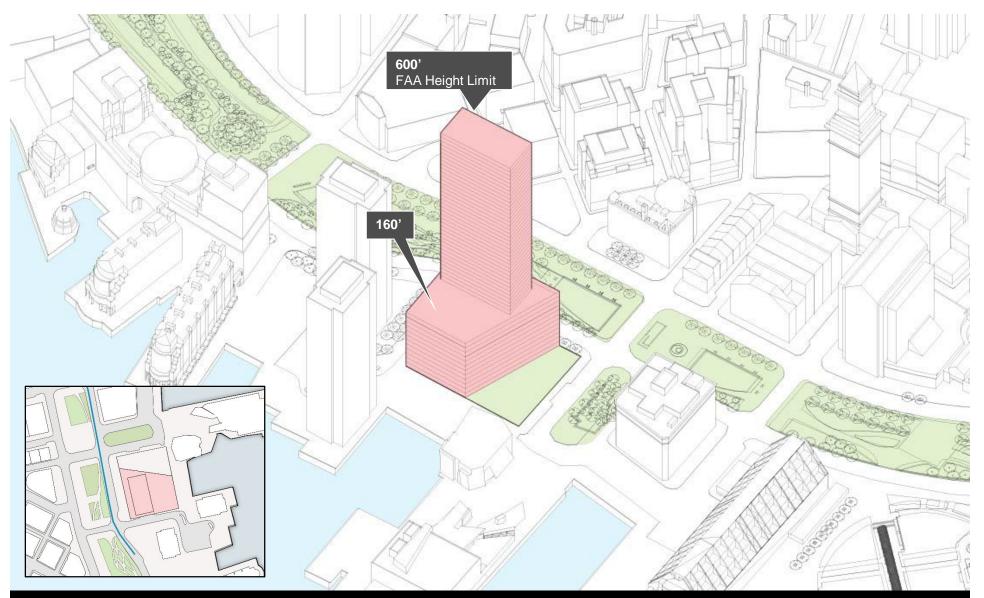




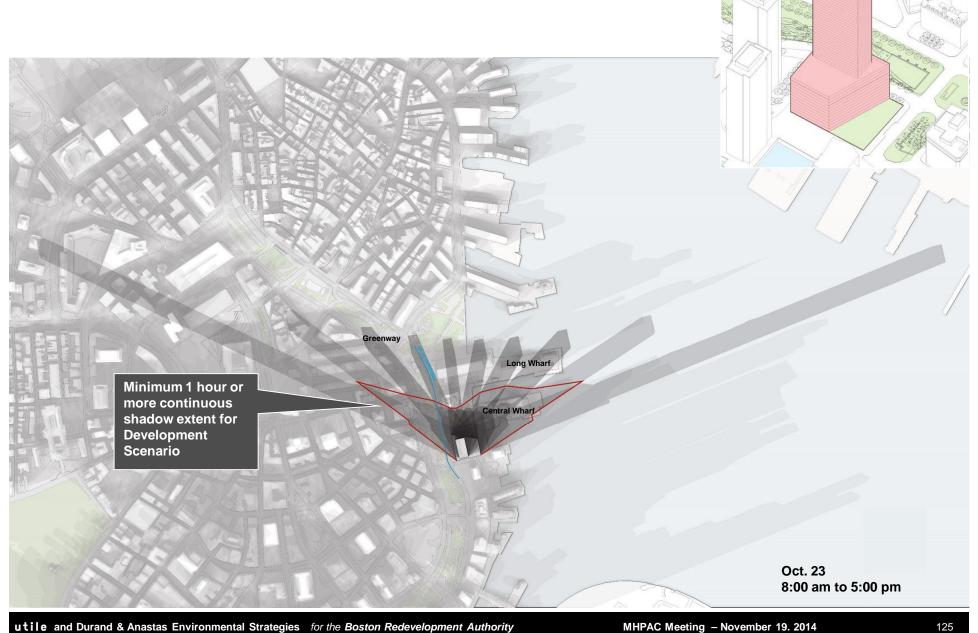


#### Harbor Garage Site Development Scenario: 600' Mixed-use tower

67% Building Footprint Lot Coverage 33% Open Space



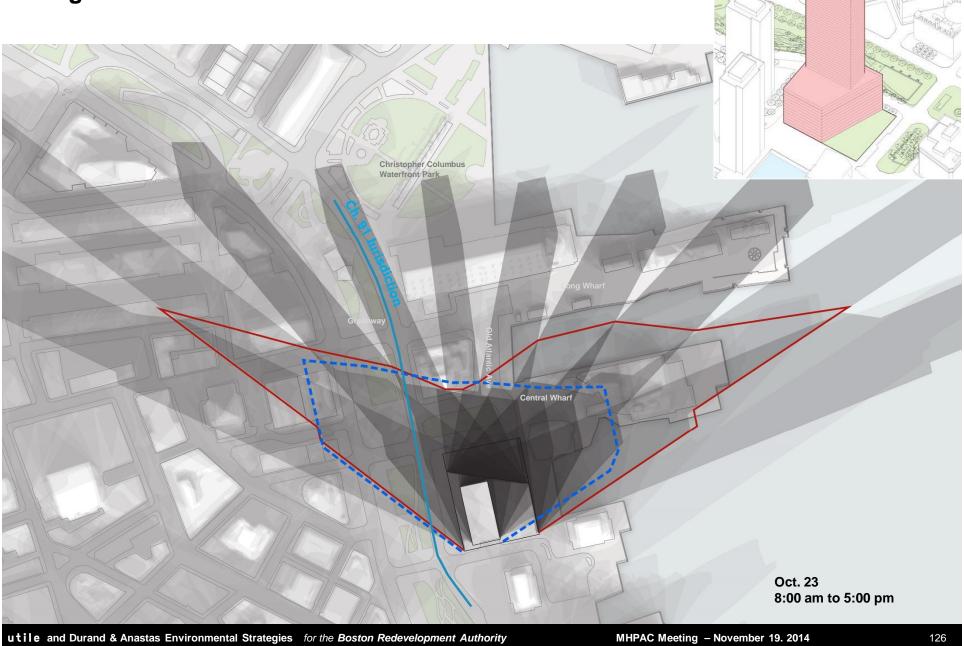
#### **Alternative Scenarios** Single South Tower – 600'



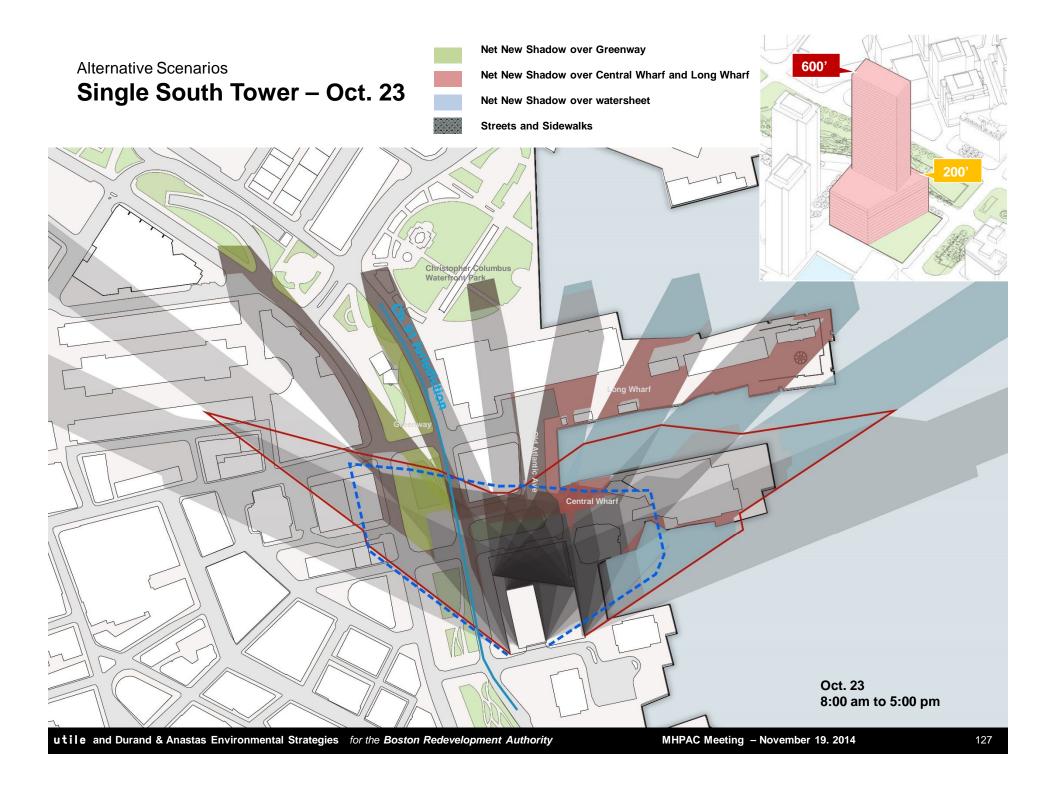
MHPAC Meeting - November 19. 2014

600'

#### **Alternative Scenarios** Single South Tower – Oct. 23<sup>rd</sup>

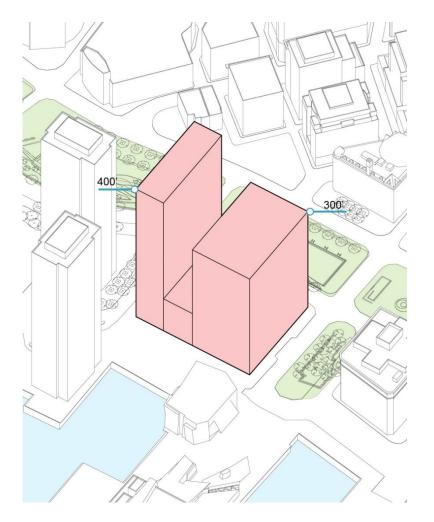


600'

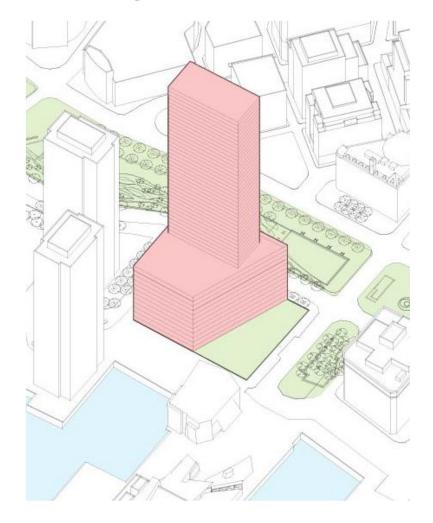


### **Overall Comparison**

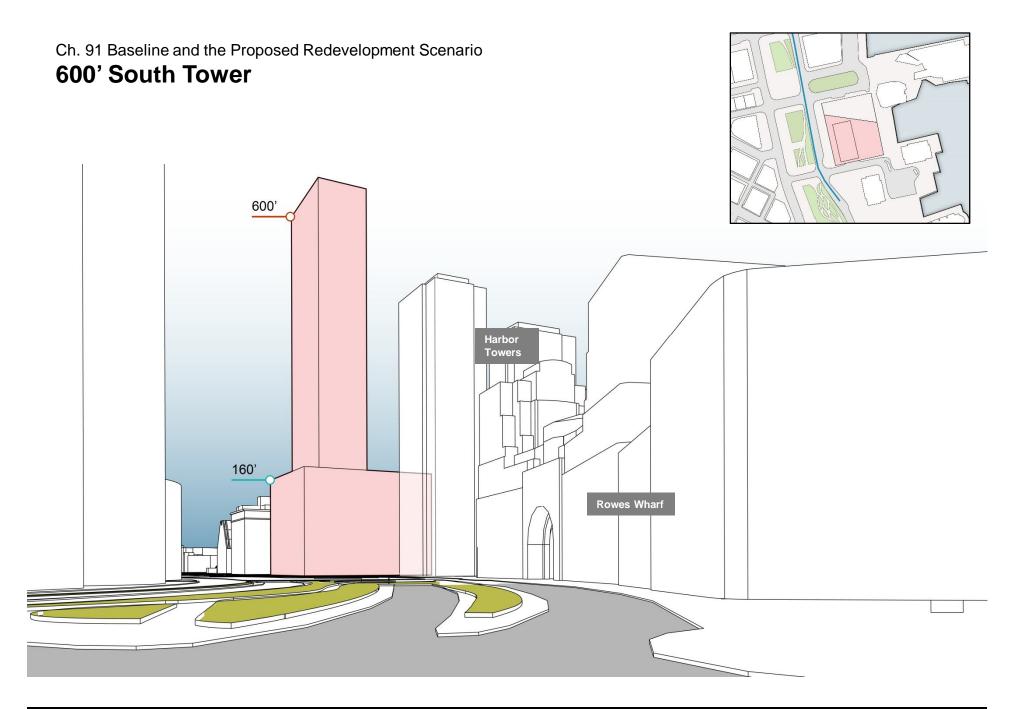
#### 400' & 300' Two Tower

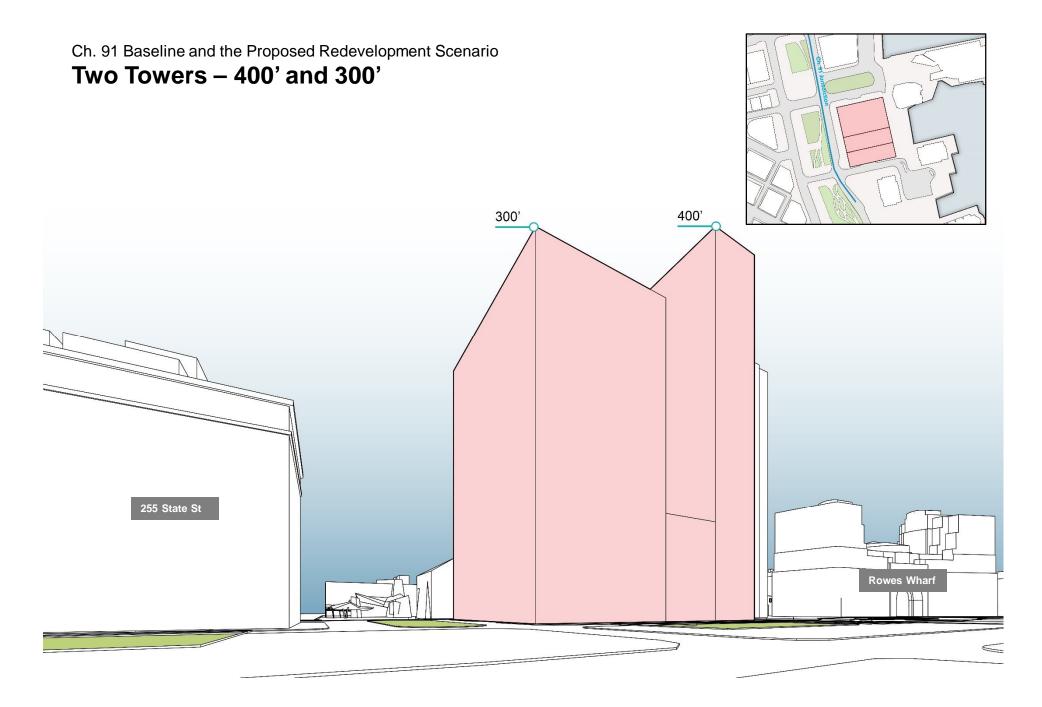


### 600' Single South Tower



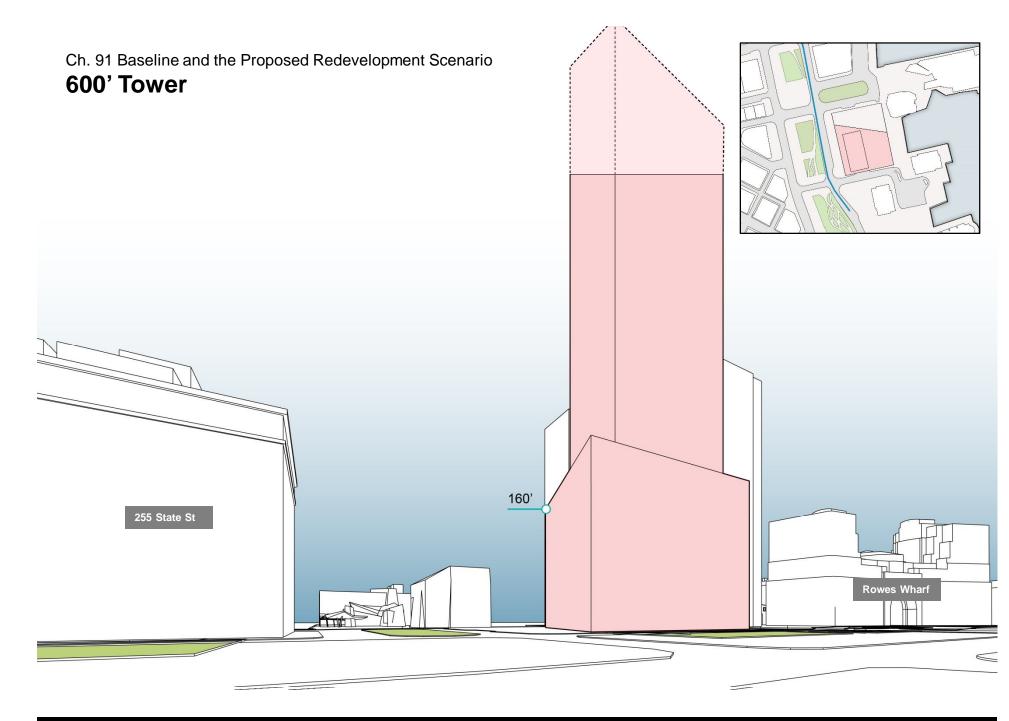
Ch. 91 Baseline and the Proposed Redevelopment Scenario Two Towers – 400' and 300' 400' Harbor Towers 300' Rowes Wharf utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority MHPAC Meeting – November 19. 2014 129



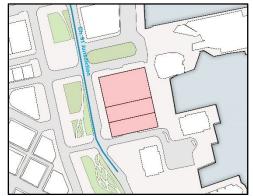


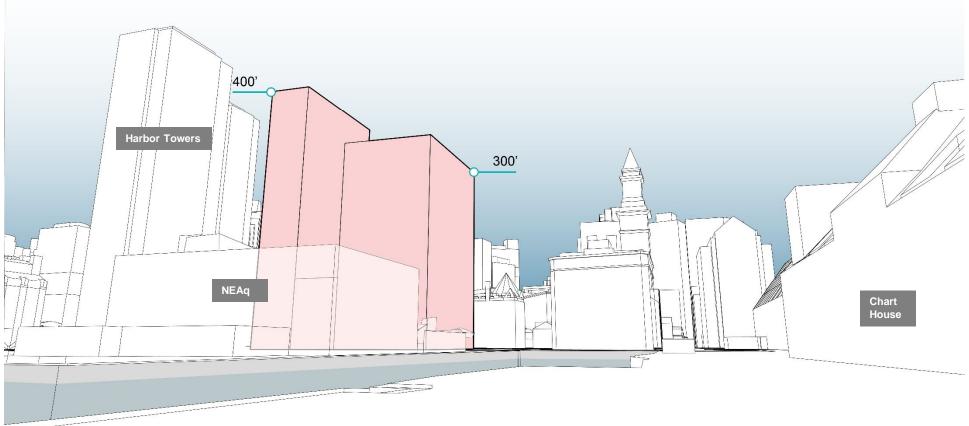
utile and Durand & Anastas Environmental Strategies for the Boston Redevelopment Authority

131

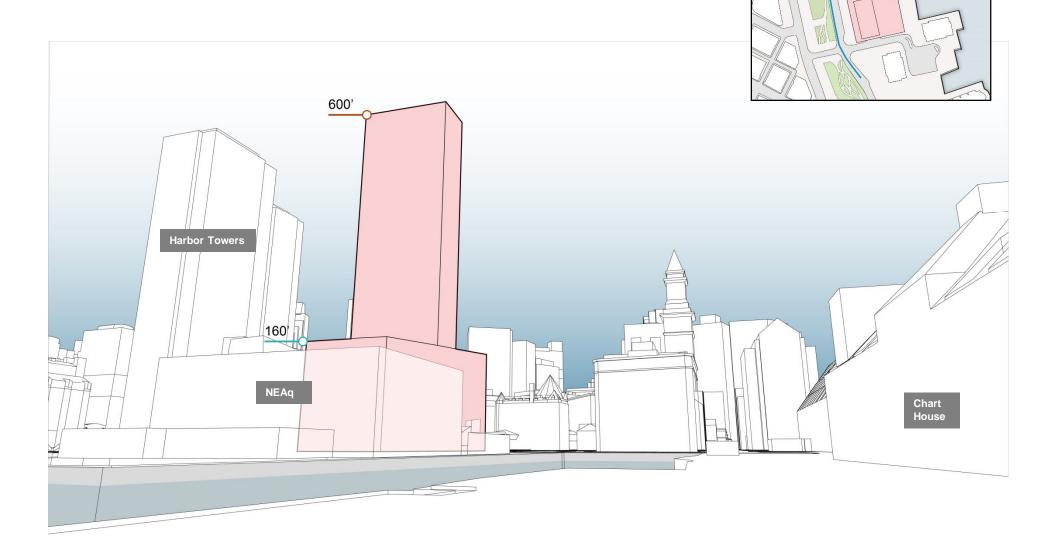


Ch. 91 Baseline and the Proposed Redevelopment Scenario **Two Towers – 400' and 300'** 



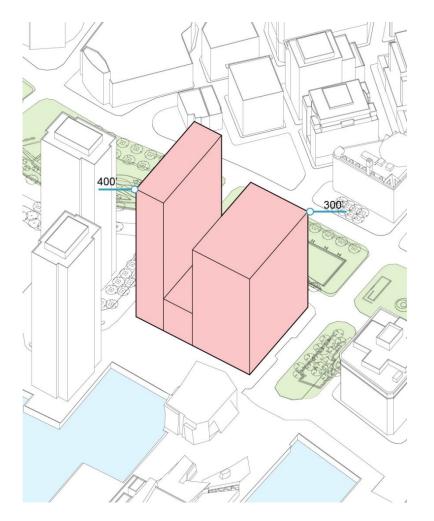


Ch. 91 Baseline and the Proposed Redevelopment Scenario **600' Tower** 

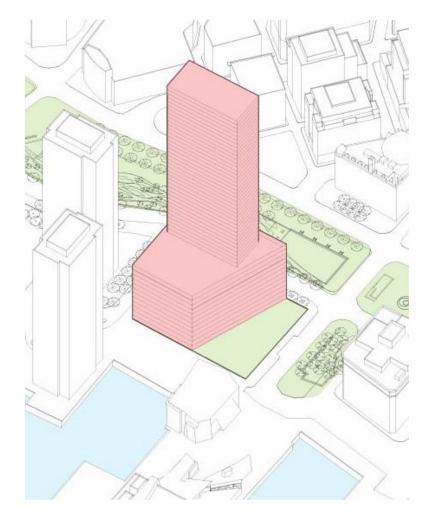


# **Overall Comparison**

### 400' & 300' Two Tower



### 600' Single Tower



# Downtown Waterfront MHP MHP Study Area

