#### **WELCOME!**

EAST BOSTON RESILIENT WATERFRONT PROJECT COMMUNITY WORKSHOP

May 4<sup>th</sup>, 2021





#### **IN ASSOCIATION WITH:**

STOSS LANDSCAPE URBANISM GEI CONSULTANTS WOODS HOLE GROUP



# INTRODUCTION AND CLIMATE READY HISTORY



Climate Ready Boston is an initiative to develop resilient solutions to prepare Boston for climate change.



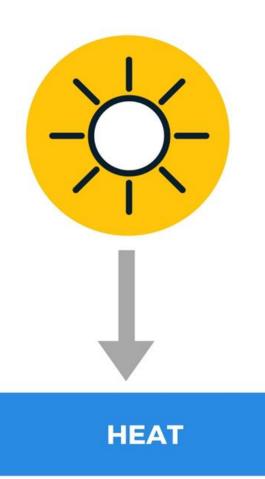
#### **CLIMATE READY BOSTON**

**EXTREME TEMPERATURES** 

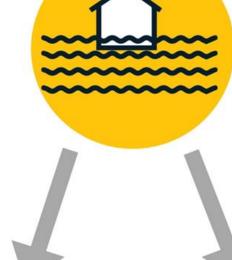
**EXTREME PRECIPITATION** 

**SEA LEVEL RISE** 

COASTAL **STORMS** 









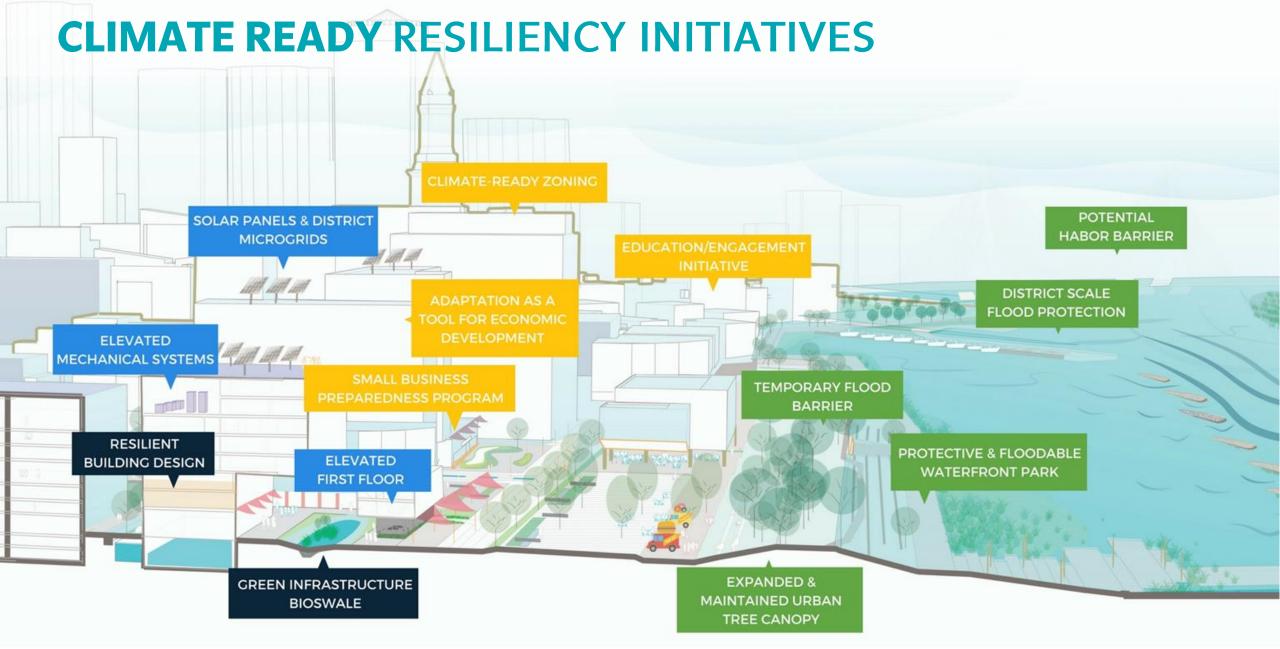




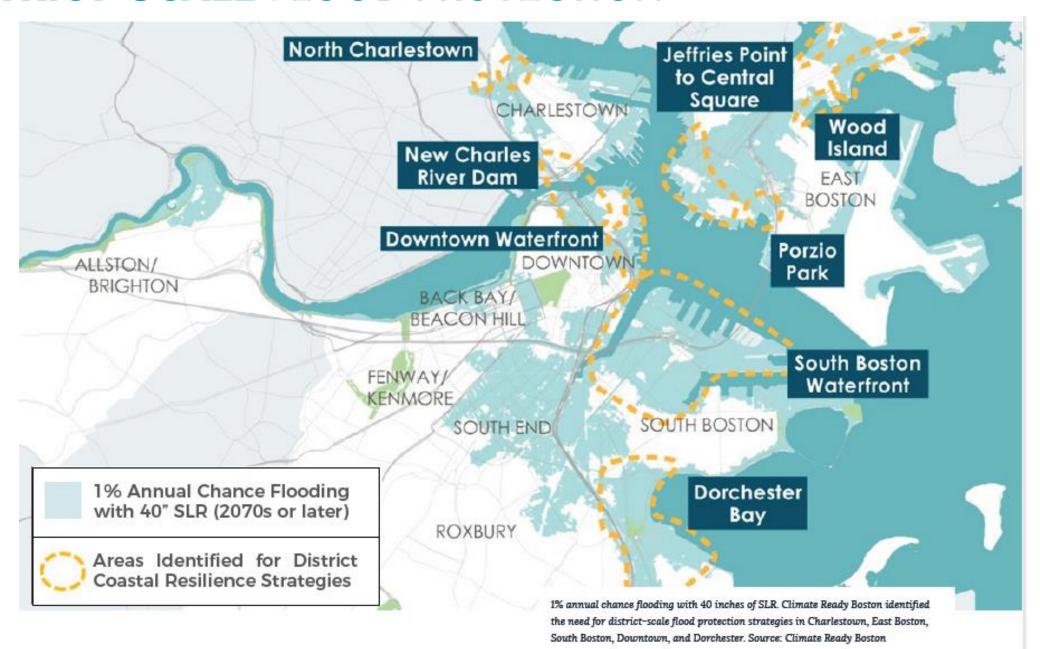


**STORMWATER FLOODING** 

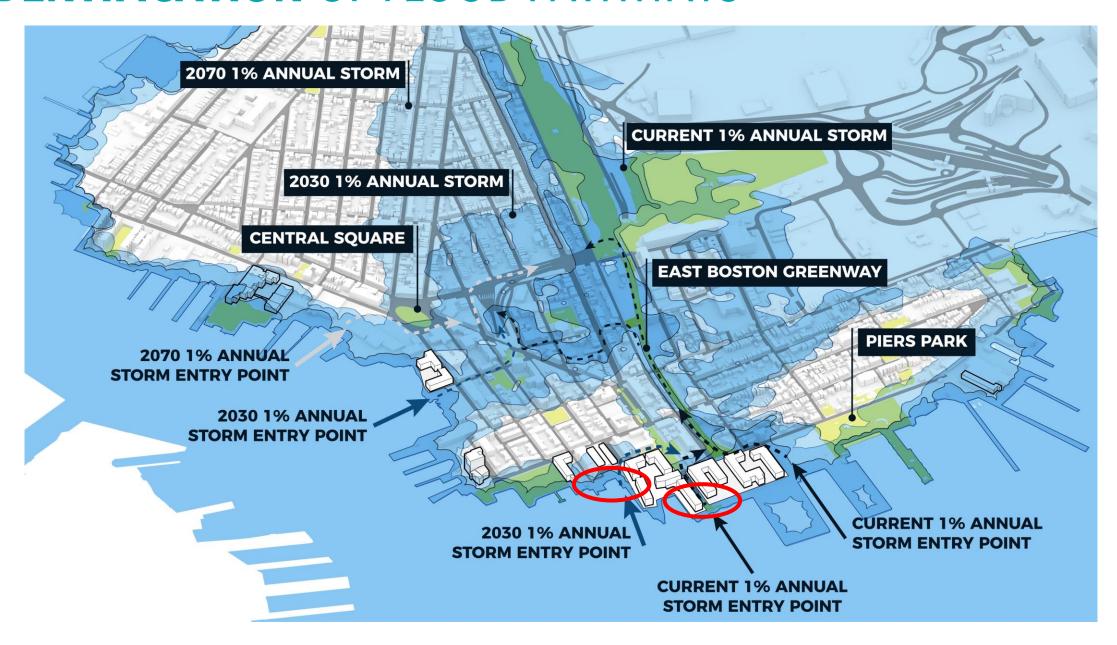
**COASTAL & RIVERINE FLOODING** 



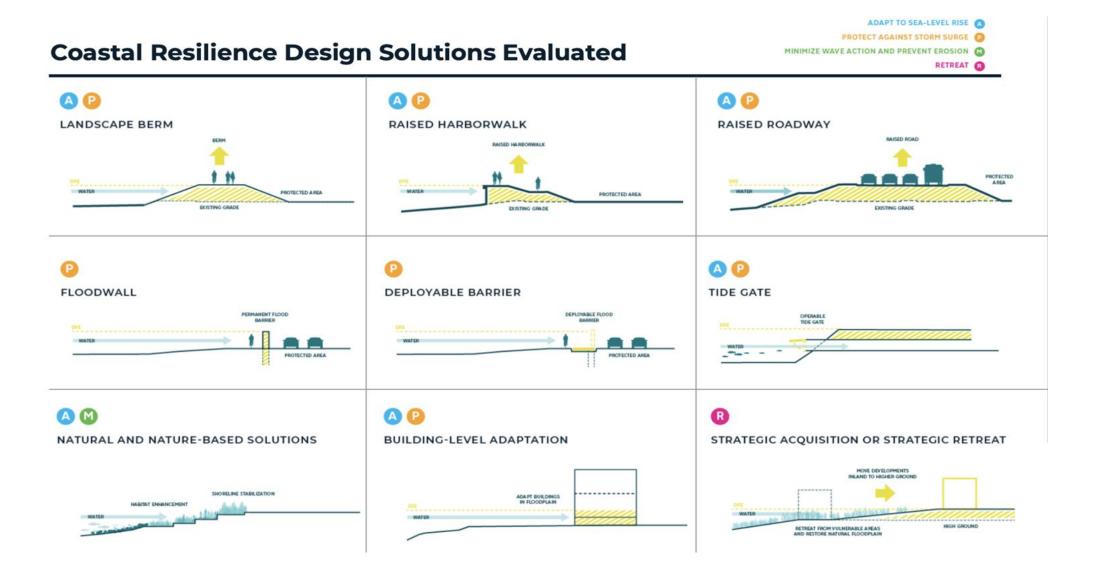
#### **DISTRICT-SCALE** FLOOD PROTECTION



#### **IDENTIFICATION** OF FLOOD PATHWAYS



#### **FLOOD PROTECTION DESIGN SOLUTIONS**



#### **EVALUATION CRITERIA**



#### **EFFECTIVENESS**

Is the initiative effective at reducing the risk to residen other stakeholders, and the assets they rely on from coastal flooding?



#### & PUBLIC HEALTH BENEFITS

Does the initiative provide benefits to and minimize impacts on the "natural" environment?



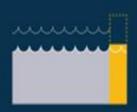
#### **FEASIBILITY**

Can the initiative be reasonably implemented and maintain / sustain?



#### SOCIAL EQUITY & QUALITY OF LIFE

Does the initiative provide quality of life benefits to people [who live or work in Boston]? Are those benefits shared fairly by all?



#### DESIGN LIFE & ADAPTABILITY

Will the initiative be adaptable over time once it is implemented?



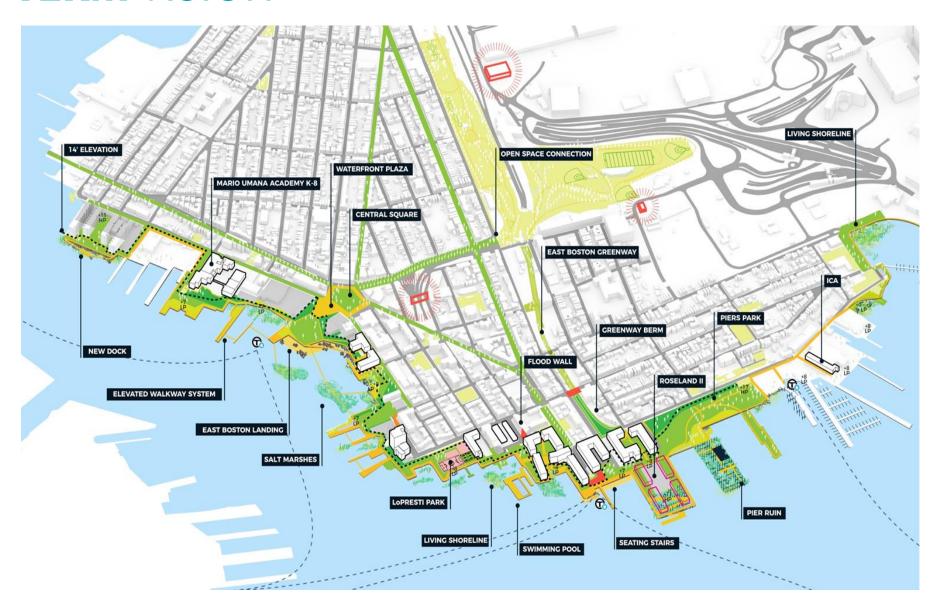
#### **VALUE CREATION**

Does the initiative increase the "value" of the land around it and ability to sustainably fund resilience into the future?

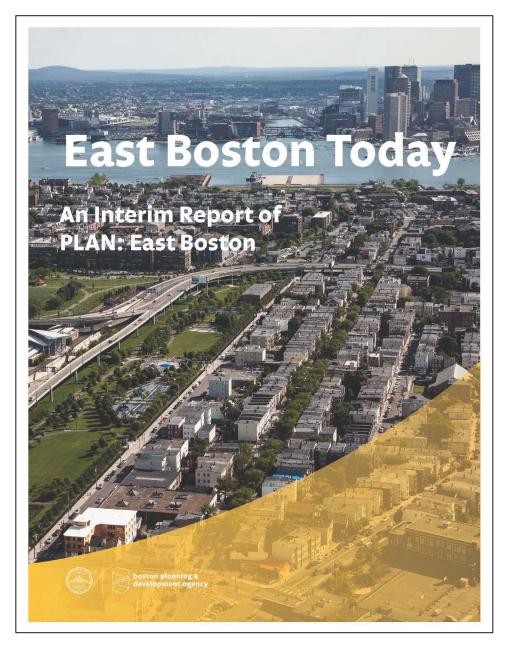
#### **SHORT TERM** ACTIONS



#### **LONG TERM VISION**



#### **COORDINATING ONGOING EFFORTS**



#### CITY of BOSTON

# Coastal Resilience Solutions for East Boston and Charlestown (Phase II)

Task 1 Memo: Review & Synthesis of Existing Information

February 2, 2021



SASAKI

WOODS HOLE GROUP FOR KAI



ne architecture

# EXISTING CONDITIONS AND KEY TAKE-AWAYS FOR DESIGN



# **EXISTING CONDITIONS**TOPOGRAPHY

#### Carlton Wharf

#### Site

Lowest Elevation = 16.5 ft-BCB

Elevation Range = 16.5 – 18 ft-BCB

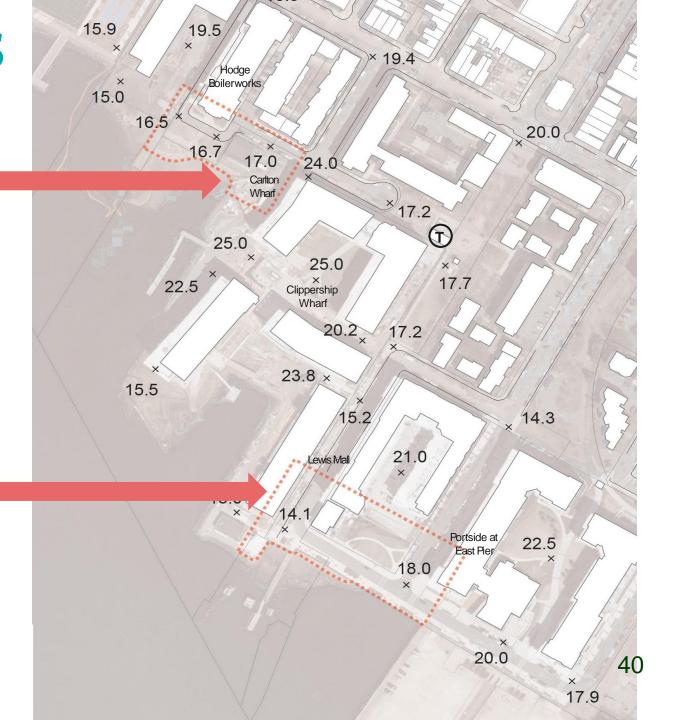
#### Lewis Mall

#### Site

Lowest Elevation = 14.1 ft-BCB

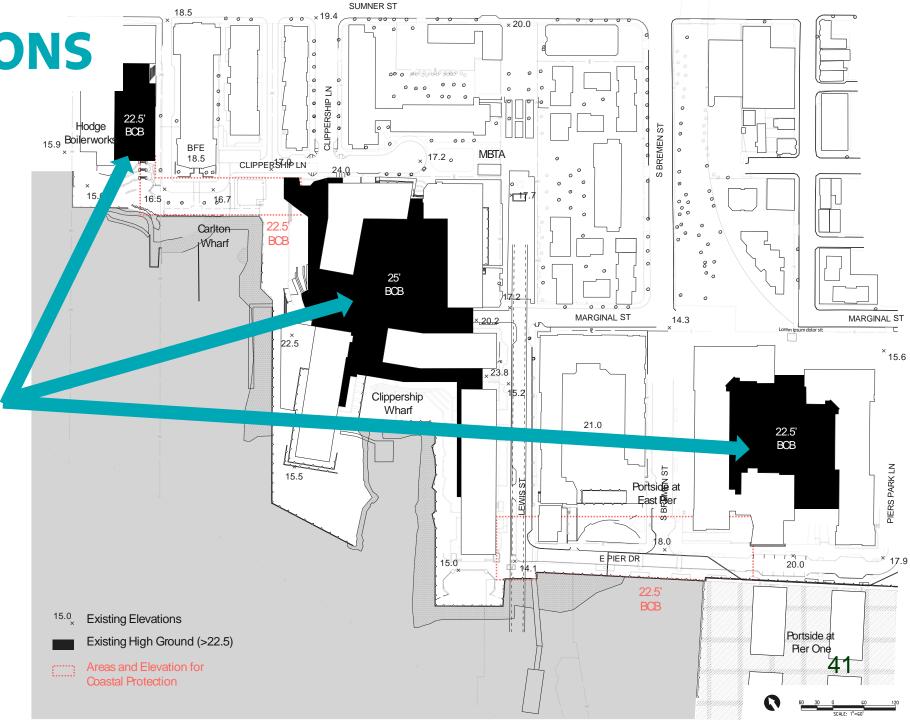
Elevation Range = 14.1 – 20 ft-BCB

Boston City Base Datum - BCB



**CONSIDERATIONS** 

ELEVATIONS (TIE - INS)



## **EXISTING CONDITIONS**

#### BIG CONSIDERATIONS



Adjacent property ownership



MBTA tunnel runs under Lewis Mall



BWSC easements and outfalls



Condition of the existing seawall



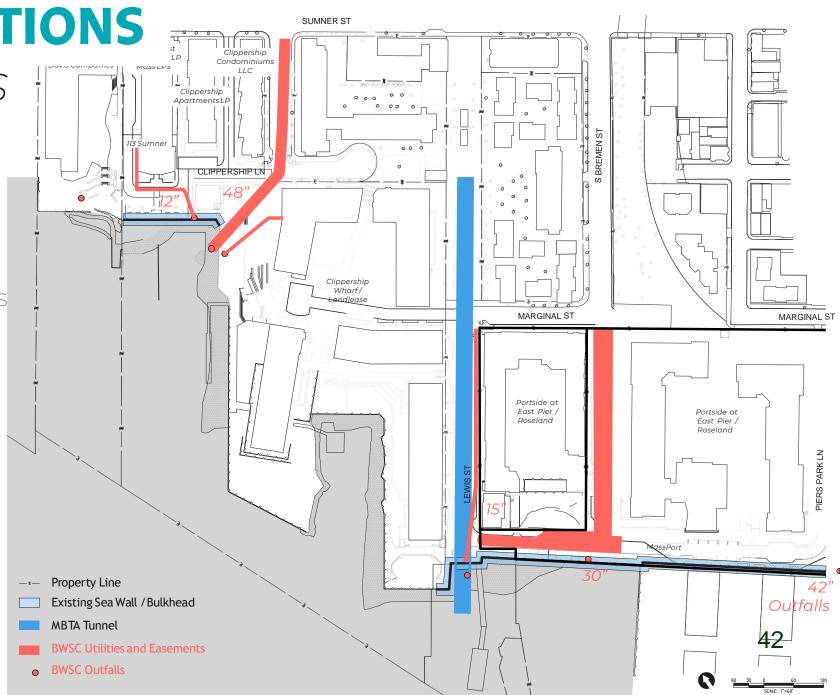
Environmental conditions



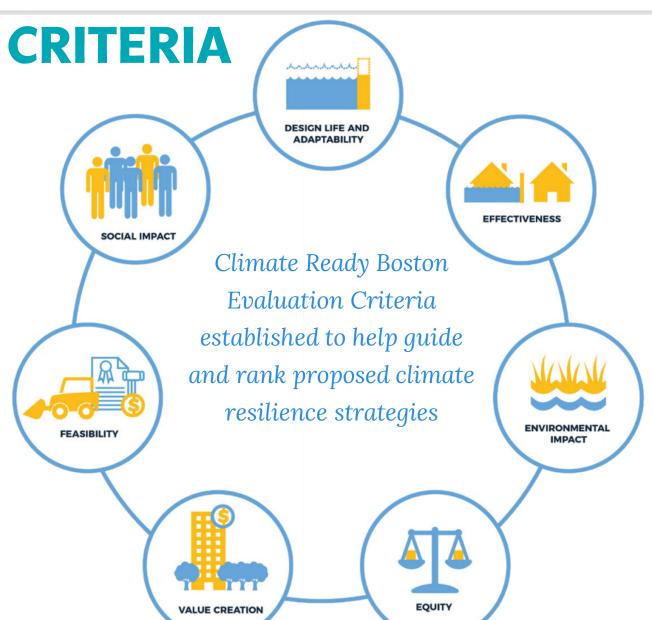
Water Taxi service at Lewis Mall



Existing dog park at Carlton



#### **CRB EVALUATION**



CATEGORY	CRITERIA
EFFECTIVENESS	Maximum level of protection (% annual chance / SLR scenarion Reduction in flood extent Avoided damage and loss Residents protected Critical assets protected
FEASIBILITY	Stakeholder acceptance Constructability Permitting Affordability: Cost of Construction + Cost of Maintenance Replicability
DESIGN LIFE + ADAPTABILITY	Design Life Performance Horizon Adaptability/Flexibility Phase-ability and Time to Implementation Maintenance Requirements
SOCIAL IMPACT	Recreational Cultural Aesthetic
EQUITY	New and Equitable Access to Waterfront Additional Benefits for Vulnerable Populations Community Partnerships Protection of Affordable Housing over the Long Term
VALUE CREATION	New Value Created on Sites or Adjacent Sites Capacity to Catalyze Future Funding and Investment
ENVIRONMENTAL IMPACT	Water and Air Quality Habitat Value Human Health Benefits Mitigation of Other Climate Hazards (Heat, Stormwater)

# **BOSTON'S** HARBORWALK











































































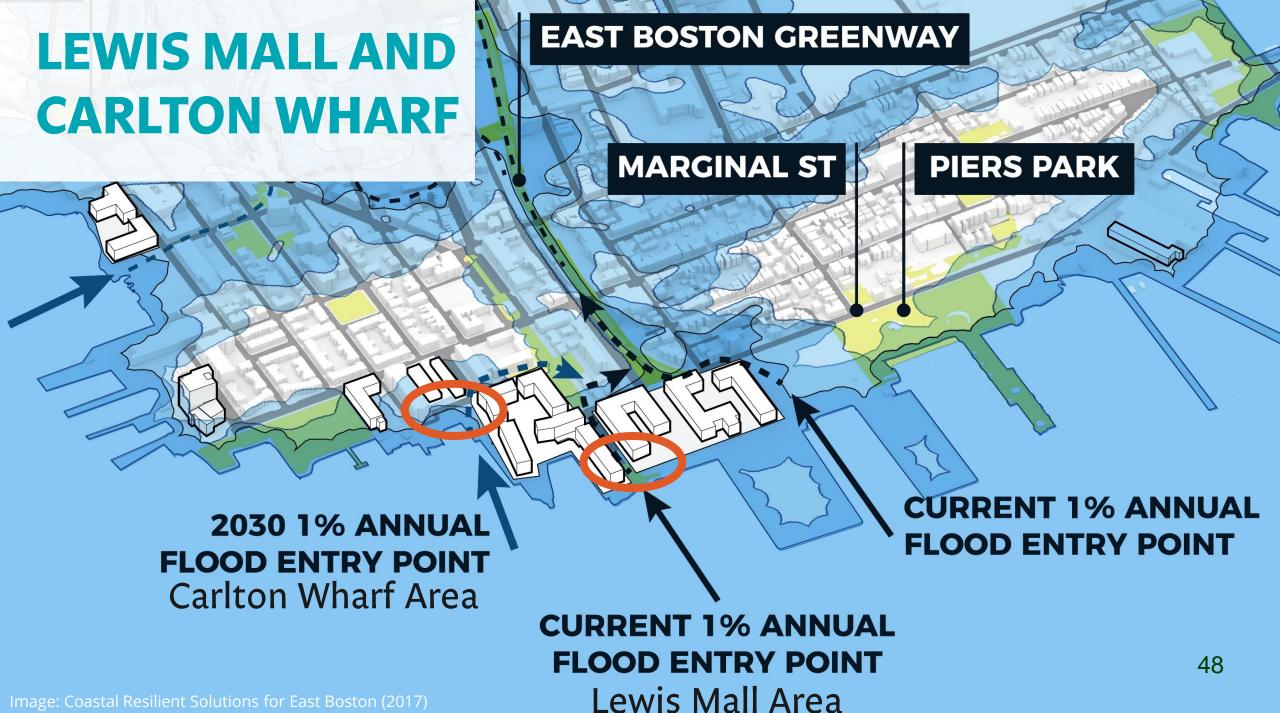
# DESIGN GOALS CHECKLIST

- Passive protection to design flood elevation
- Maintain equitable access- to existing structures & waterfront
- Placemaking- to meet Plan East Boston's waterfront goals
- Existing Infrastructure minimize impact / changes and maintain access

Develop buildable solutions which meet resiliency goals despite site constraints

# **DESIGN CONCEPTS**

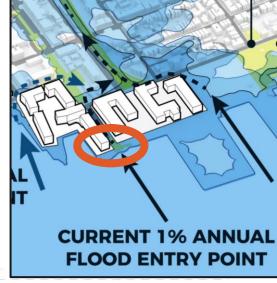


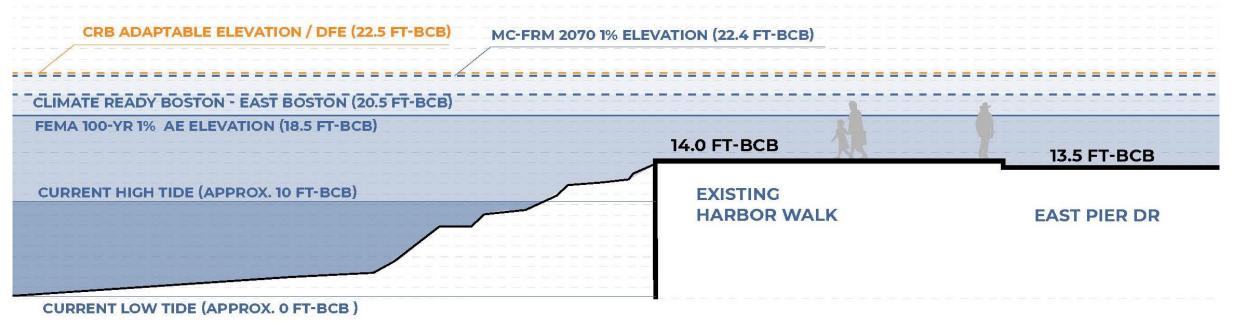


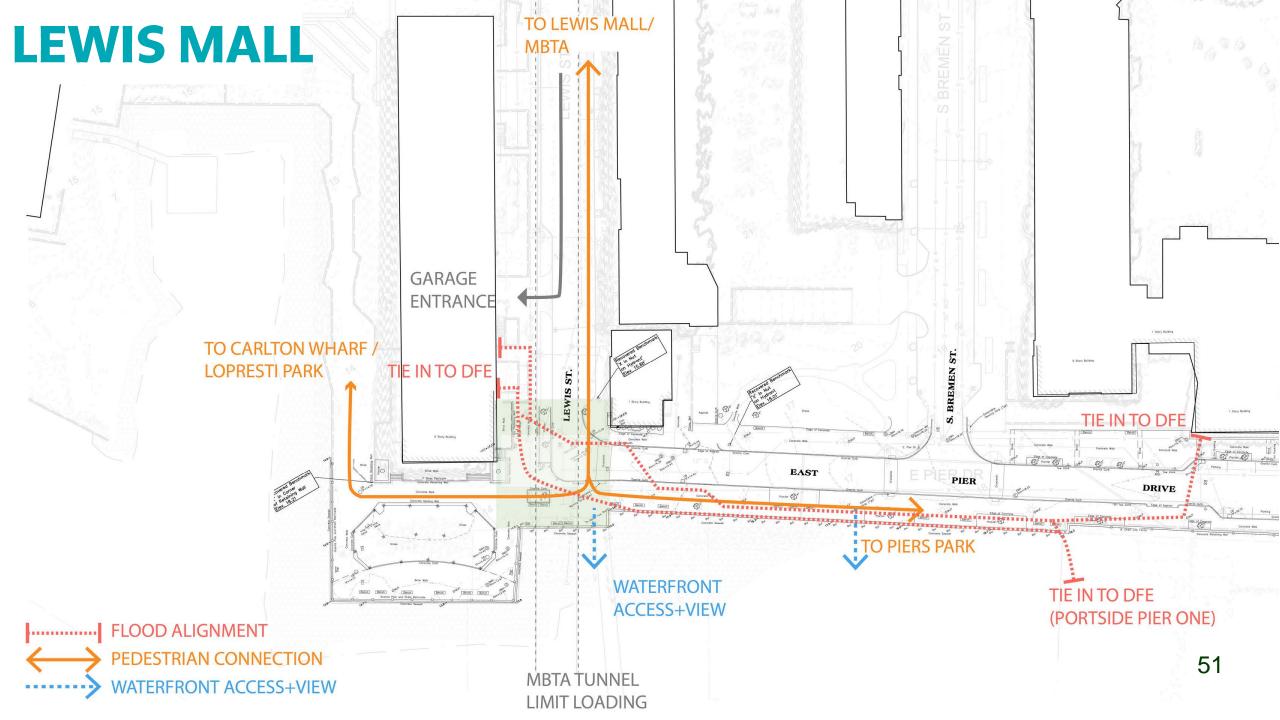
## **LEWIS MALL**



### **PROJECT AREA FLOODING**



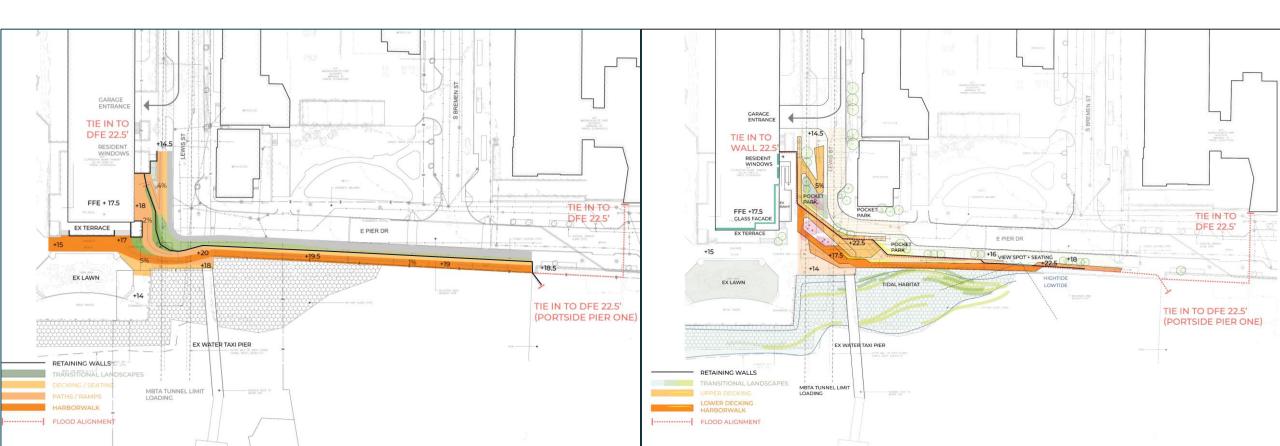




#### **LEWIS MALL**

# Scenario 1 Harborwalk Plaza

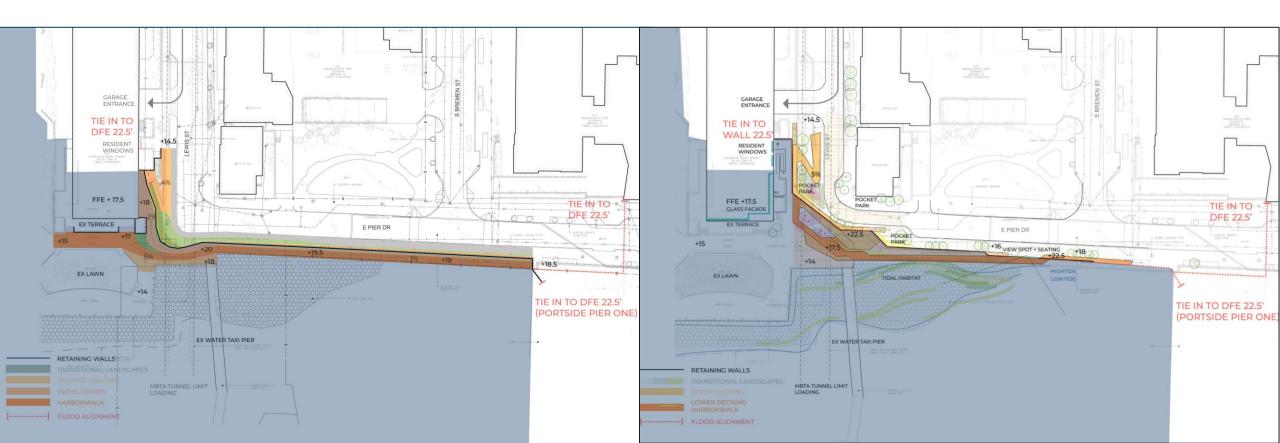
# Scenario 2 Lewis Landing



#### **LEWIS MALL**

# Scenario 1 Harborwalk Plaza

# Scenario 2 Lewis Landing



### Scenario 1

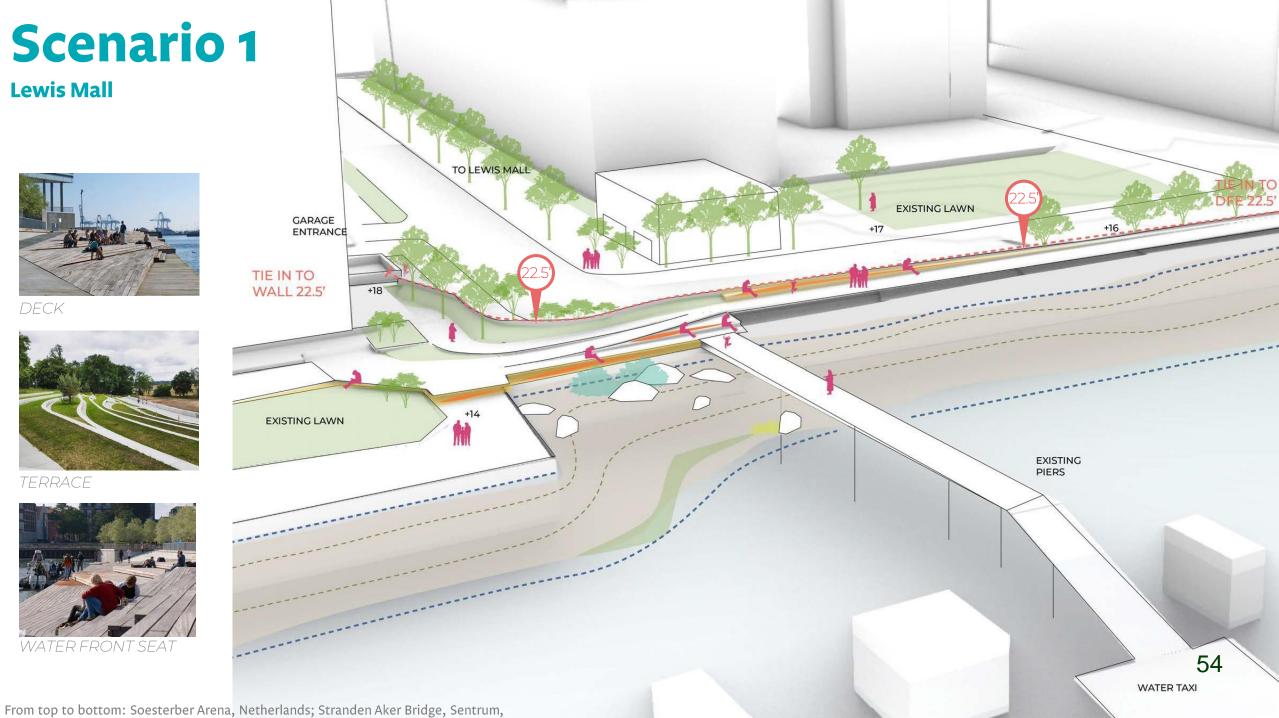
**Lewis Mall** 





TERRACE





## Scenario 2

**Lewis Mall** 



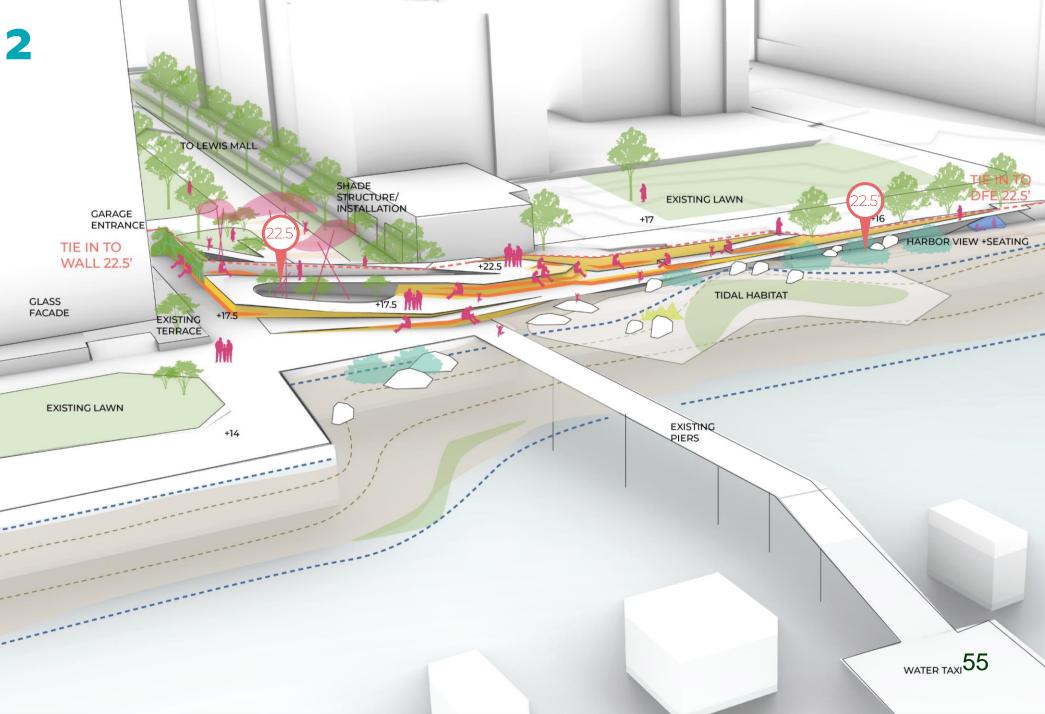
DECK + SEATING



SHADE STRUCTURE



VIEW SPOT + SEATING



From top to bottom: Bostali

# What do you like most about this design?









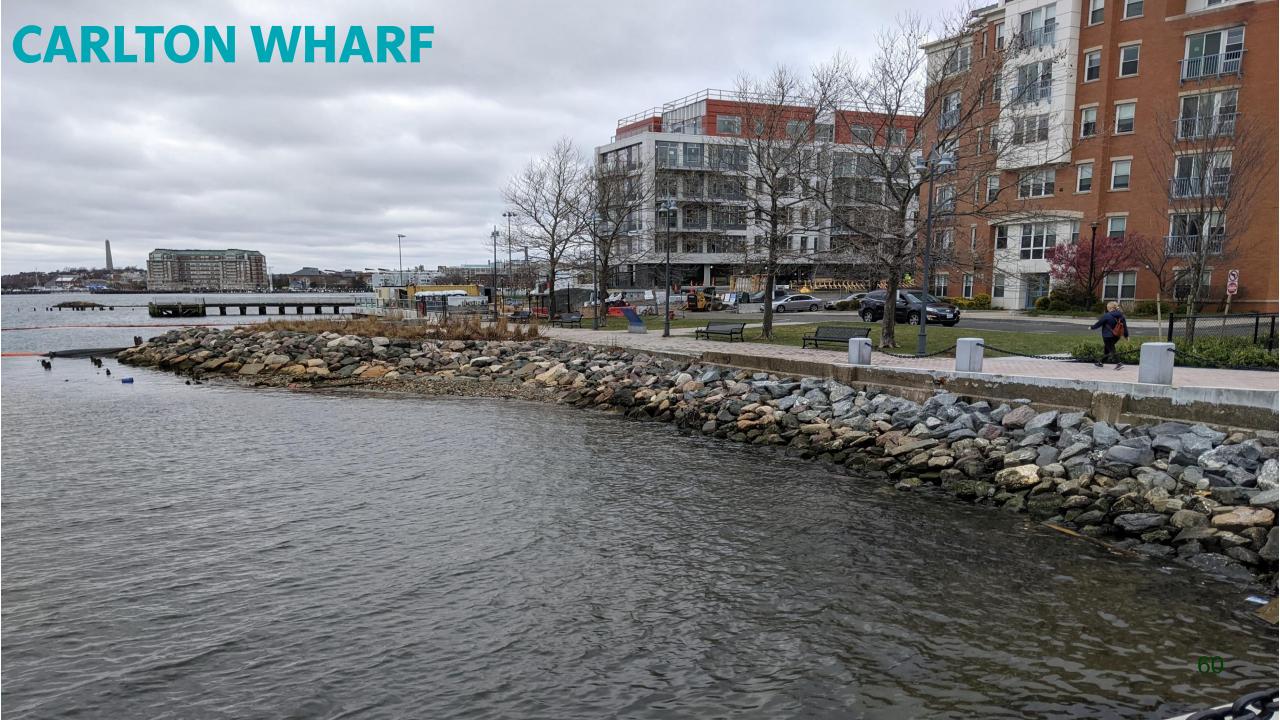




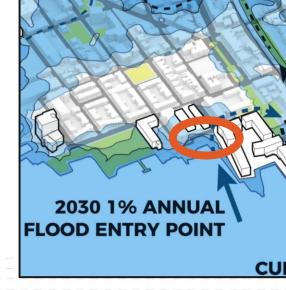


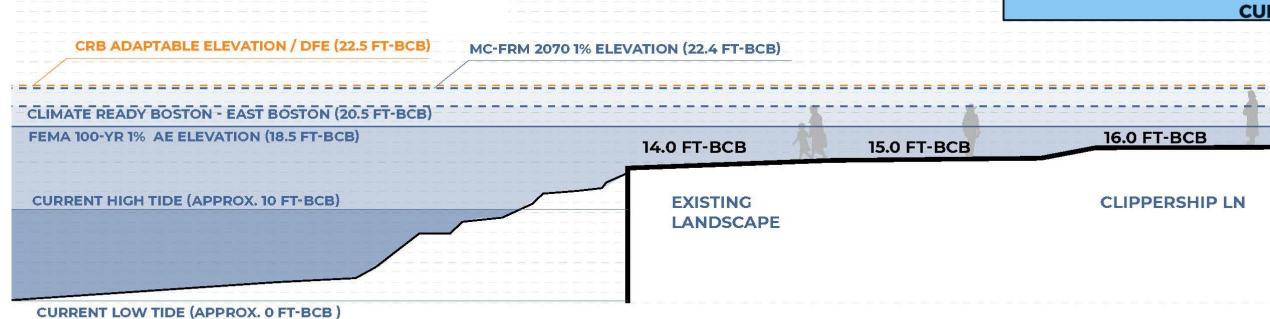
# QUESTIONS ABOUT LEWIS MALL?

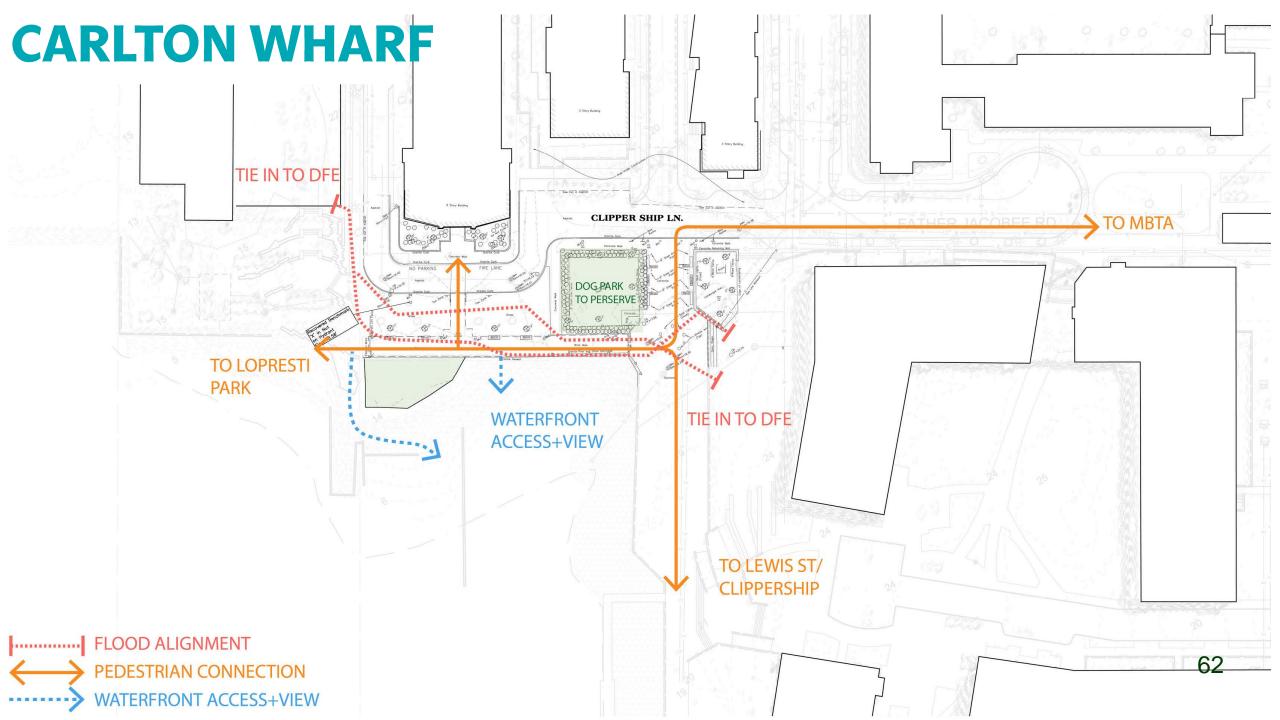




### PROJECT AREA FLOODING



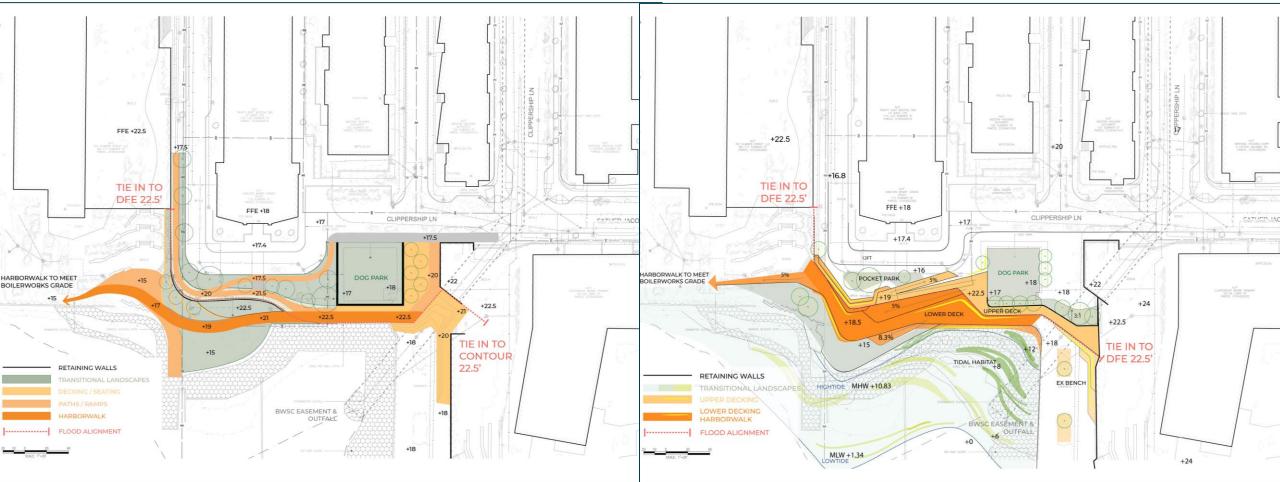




#### **CARLTON WHARF**

# Scenario 1 Green Spaces

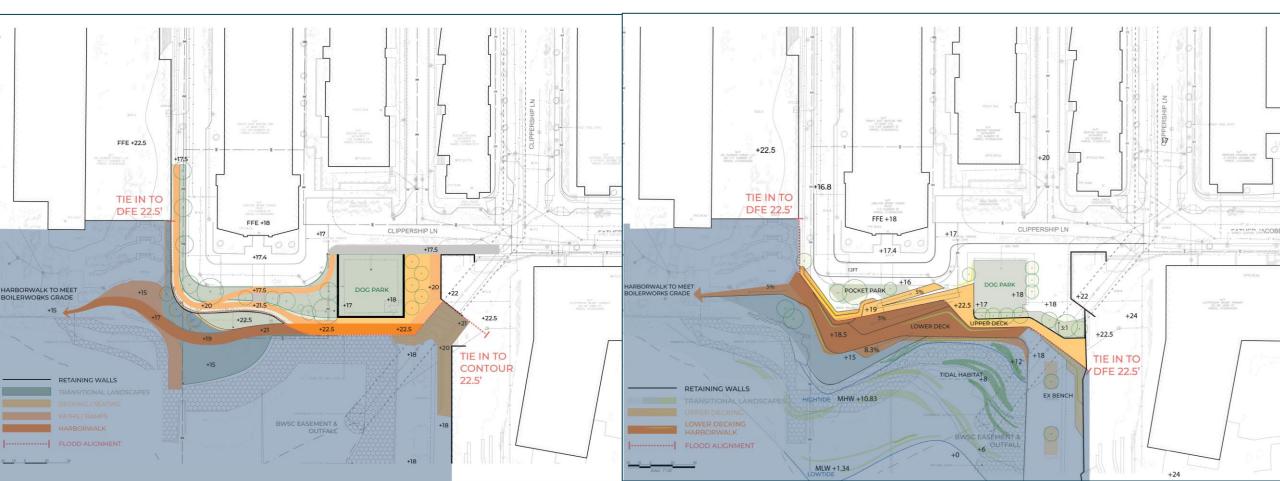
# Scenario 2 Expanded Deck



#### **CARLTON WHARF**

# Scenario 1 Green Spaces

# Scenario 2 Expanded Deck



# Scenario 1 - Green Spaces



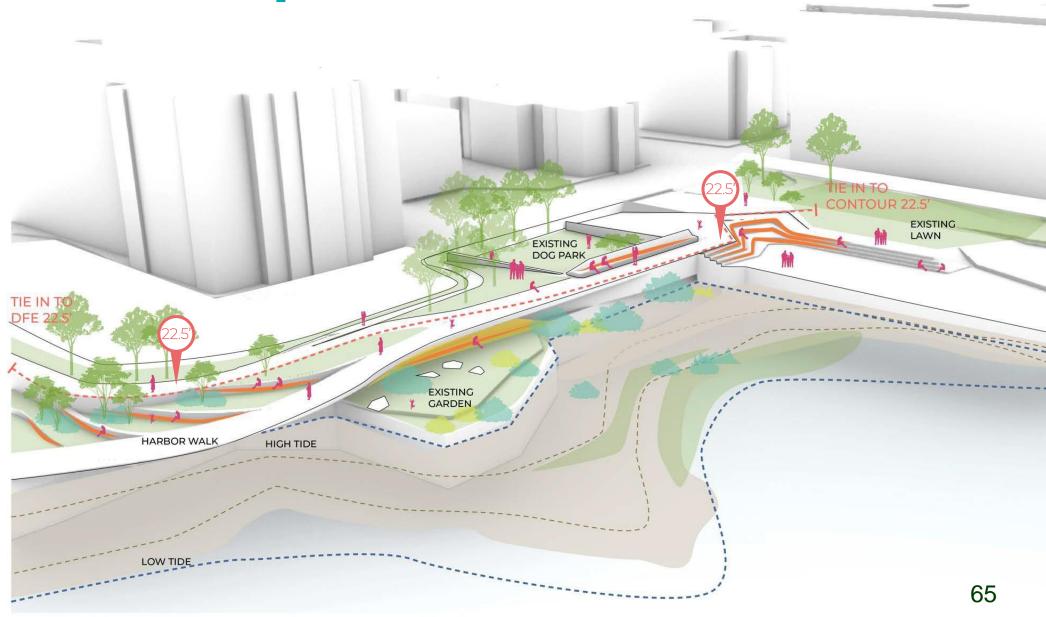
TERRACE+ SEATING



TERRACE+LANDFORM



HARBOR WALK



# Scenario 2 - Expanded Decks



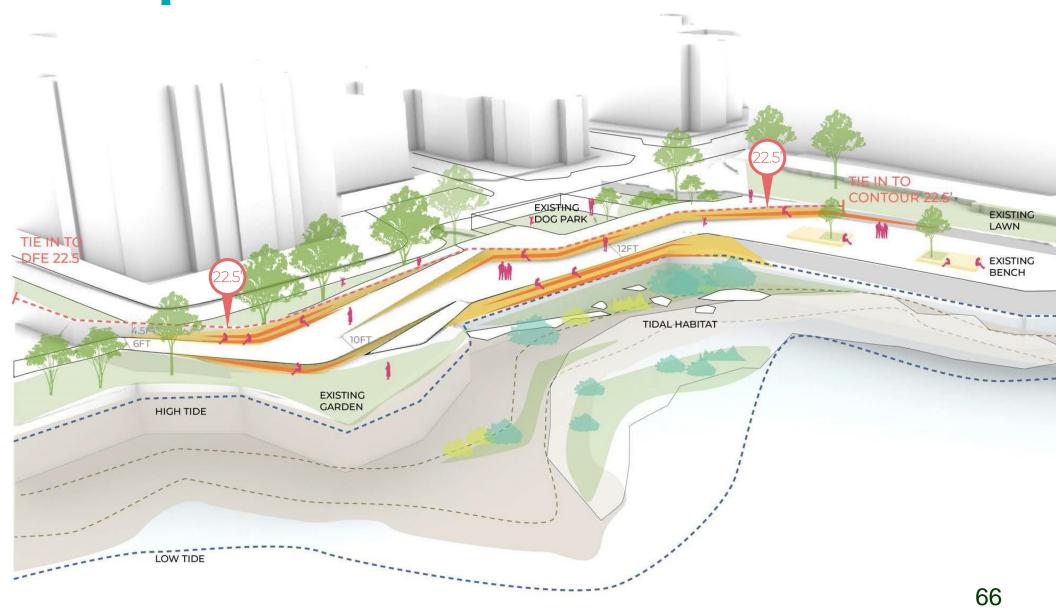
DECK + SEATING



ACCESS TO WATER



TIDAL HABITAT



# What do you like most about this design?















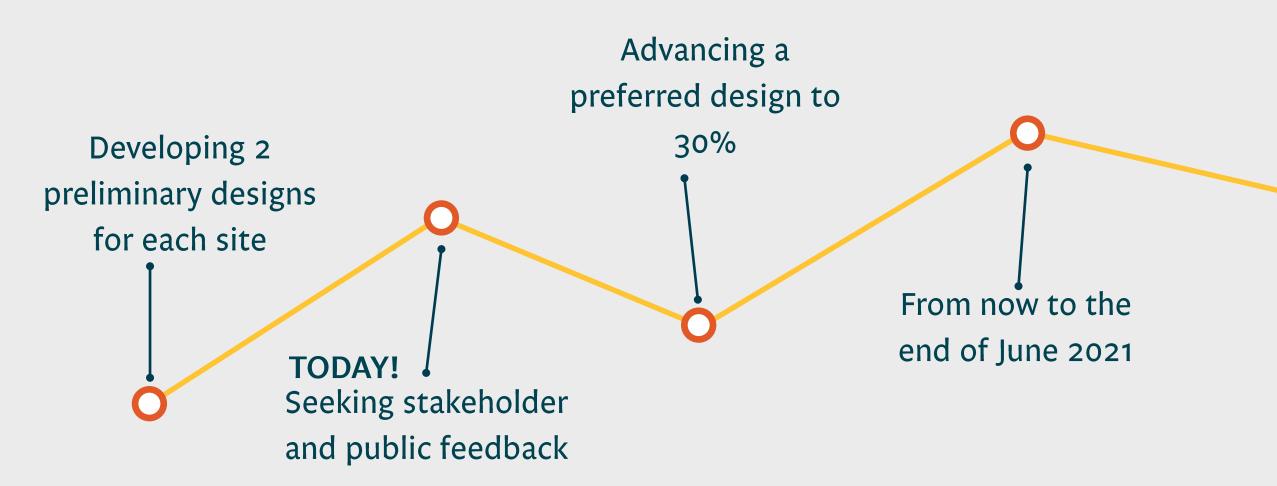
# **QUESTIONS ABOUT CARLTON?**



# **NEXT STEPS**



#### **PROCESS & SCHEDULE**



#### **WAYS TO ENGAGE**

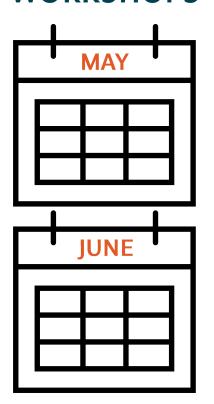
# FOLLOW ALONG ON SOCIAL MEDIA



# FOR UPDATES CHECK OUR WEBSITE



# ATTEND 2 VIRTUAL WORKSHOPS



TELL YOUR FAMILY, FRIENDS, AND NEIGHBORS TO DO THE SAME

# GENERAL Q & A



