



NEW YORK
STATE OF
OPPORTUNITY

Battery Park
City Authority

A Climate Resilient Place

The Hugh L. Carey Battery Park City Authority is a New York State public benefit corporation whose mission is to plan, create, coordinate, and sustain a balanced community of commercial, residential, retail, and park space within its designated 92-acre site on the lower west side of Manhattan.

-BPCA Mission Statement

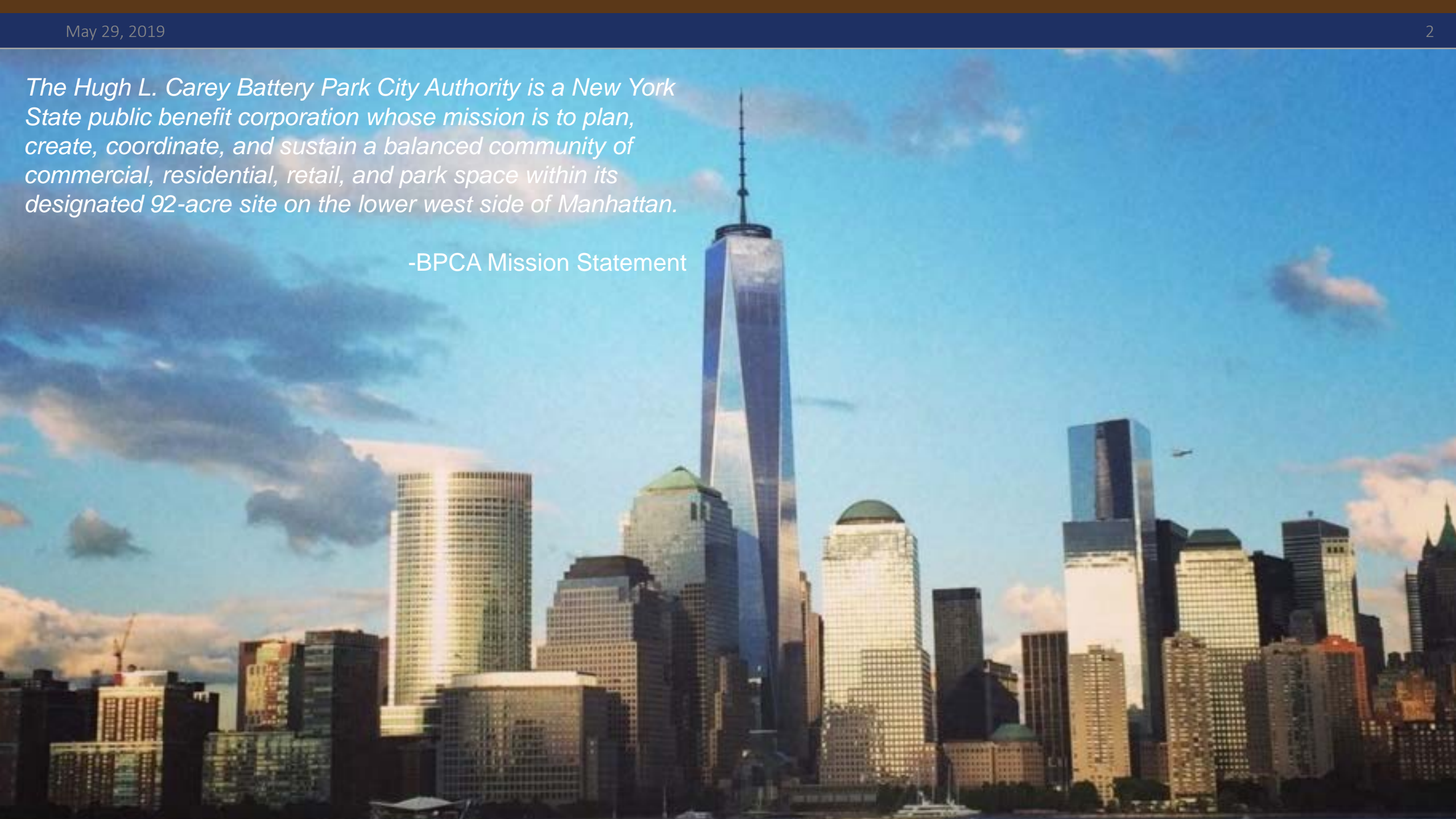






Photo: Carl Glassman/Tribeca Trib

Ball Fields Resiliency Project

- Independent flood barrier system along eastern, northern and southern borders of the Ball Fields and Community Center
- The Ball Fields are located at a geographical low point making them susceptible to flooding, as experienced during Superstorm Sandy
- Project substantially completed December 2021
- Estimated Cost \$7.8 million



Photo: Carl Glassman/Tribeca Trib

COMPLETED



Climate Adaptation Milestones

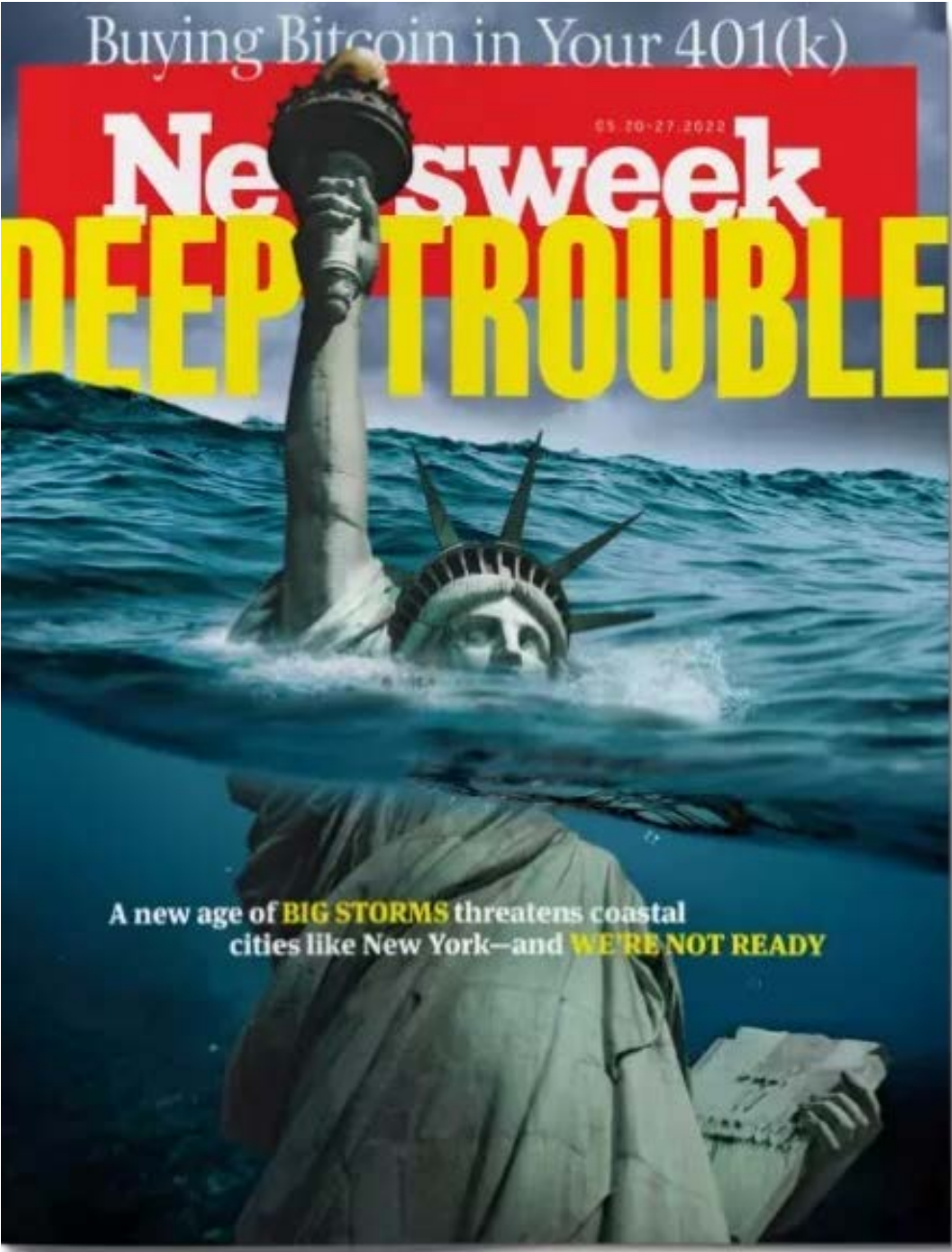
- Wet flood proofing and restoration of Pier A (2014)
- Restoration of Ball Fields (2014)
- Completion of infrastructure risk assessment (2015)
- Raising of electrical vaults above flood zone (2017)
- Upgrading lighting to be water resistant (2017)
- Development of new 5 year capital plan (2018)
- State legislation authorizing a \$500 million increase to our bond cap (2018)
- Bond Issuance for Resiliency (2019)
- Design-Build authority granted (2020)
- Sustainability Plan and Green Guidelines (2020)
- Zero Waste Certification (2021)
- Substantial Completion of Ball Fields Resiliency (2021)
- Climate Action Plan (2022)



Key Takeaways

- There is an urgent need for resiliency projects due to more frequent and more severe storms.
- The Battery Park City projects are a vital component of protecting Lower Manhattan.
- The South Battery Park City Resiliency project has evolved in fundamental ways, in large part due to community input.
- The South BPC Resiliency Project will result in a world-class park with expansive lawns and gardens; education, community, dining, and programming spaces; public restrooms; beautiful views; and access for all for generations to come.





CNN

Weather

ClimateStorm TrackerWildfire TrackerVideo

COMPLETE COVERAGE

The House January 6 committee is set to hold its second public hearing this morning. Watch CNN.

Above-average hurricane season forecast with several major hurricanes

By Jennifer Gray, CNN meteorologist

Updated 2:25 PM ET, Tue May 24, 2022



MORE FROM CNN



Today's hearing will be delayed



Why Wendy's founder named his burger empire after his daughter—and came to regret it

NOAA

National Oceanic and Atmospheric Administration

U.S. Department of Commerce

Home / News & Features

Search NOAA sites

NOAA predicts above-normal 2022 Atlantic Hurricane Season

Ongoing La Niña, above-average Atlantic temperatures set the stage for busy season ahead

Focus areas: WeatherTopics: hurricanes, hurricane season

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May 24, 2022



A visible satellite image of Hurricane Ida approaching land in the Gulf of Mexico taken by NOAA's GOES-16 (GOES East) satellite at 4:10 am (EDT) on August 29, 2021. (NOAA)

The Weather Channel

An IBM Business

Search City or Zip Code

TodayHourly10 DayWeekendMonthlyRadar

HURRICANE CENTRAL

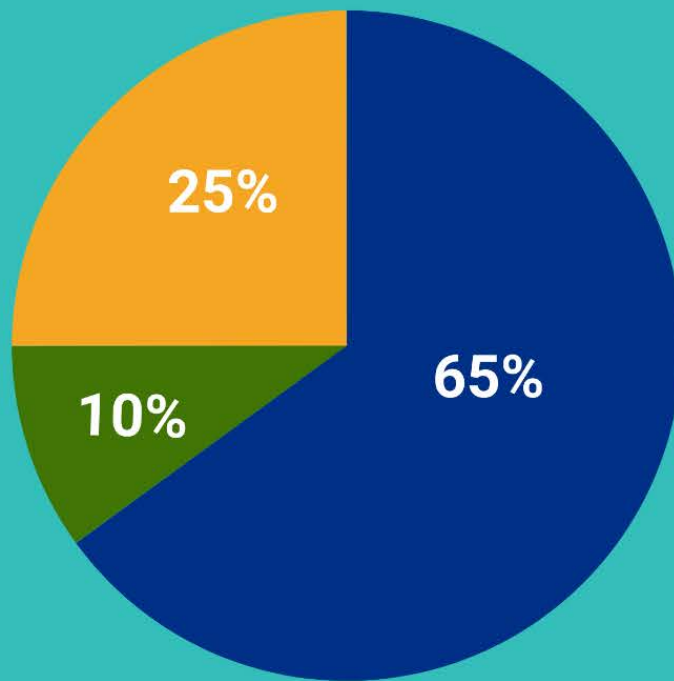
Updated 2022 Atlantic Hurricane Season Forecast Increases Number of Storms to Expect

By Jonathan Belles, Jonathan Erdman and Chris Dolce · June 02, 2022





2022 Atlantic Hurricane Season Outlook



■ Above-normal ■ Near-normal ■ Below-normal season

Season probability

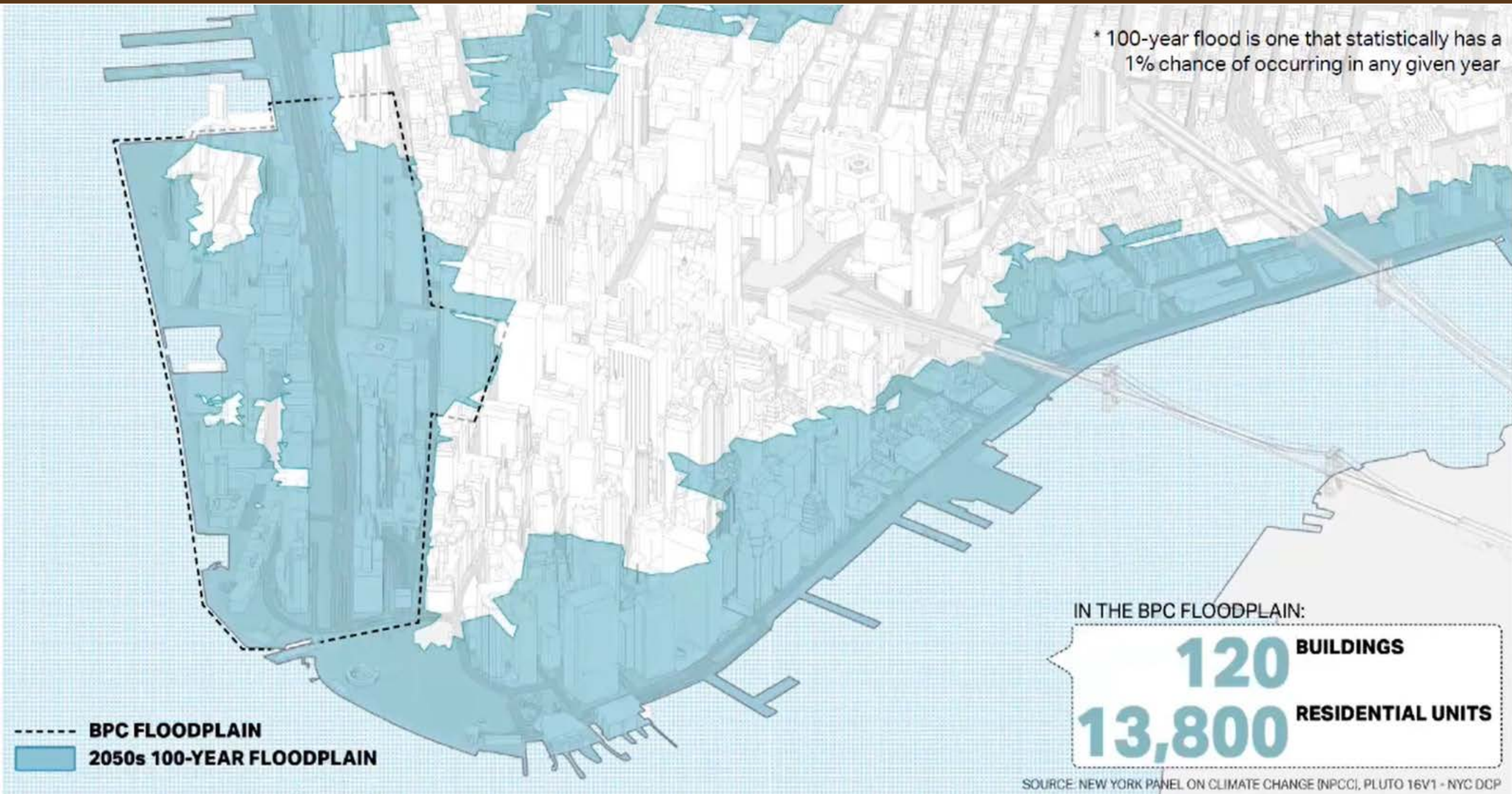
Named storms
14-21

Hurricanes
6-10

Major hurricanes
3-6

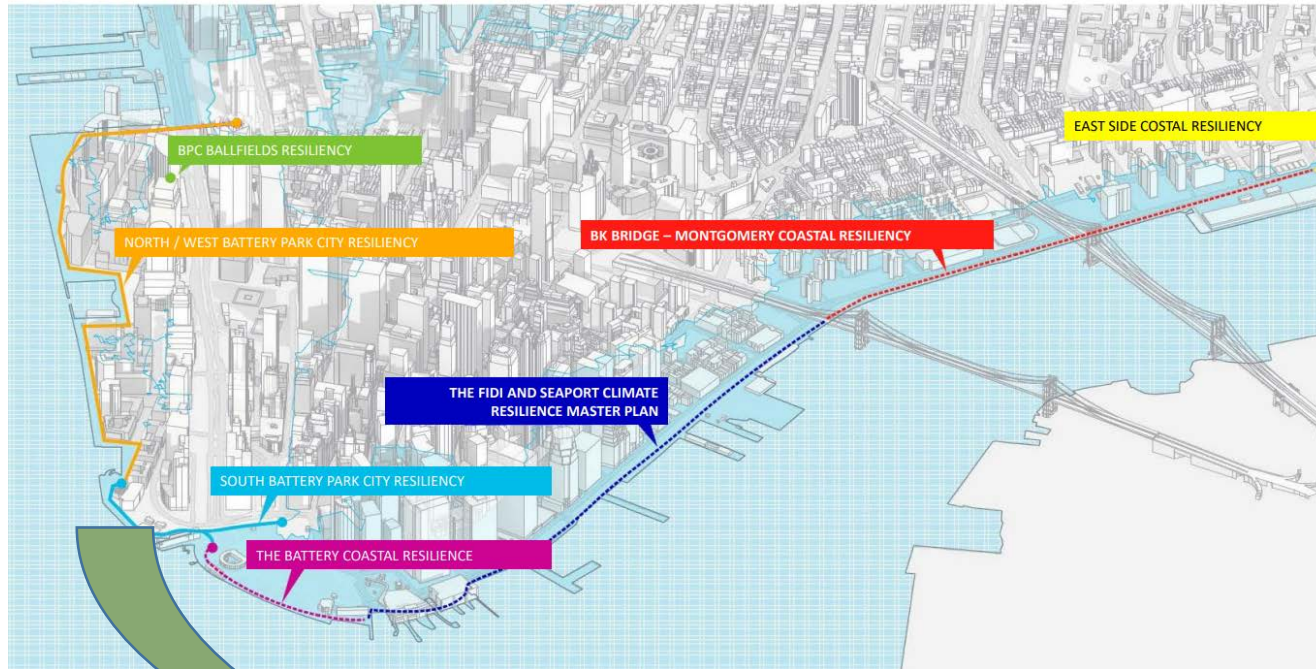
2022 CSU Forecast

| Forecast Parameters | CSU Forecast for 2022 | Average for 1991-2020 |
|-----------------------------|-----------------------|-----------------------|
| Named Storms | 19 | 14.4 |
| Named Storm Days | 90 | 69.4 |
| Hurricanes | 9 | 7.2 |
| Hurricane Days | 35 | 27.0 |
| Major Hurricanes | 4 | 3.2 |
| Major Hurricane Days | 9 | 7.4 |
| Accumulated Cyclone Energy+ | 160 | 123 |

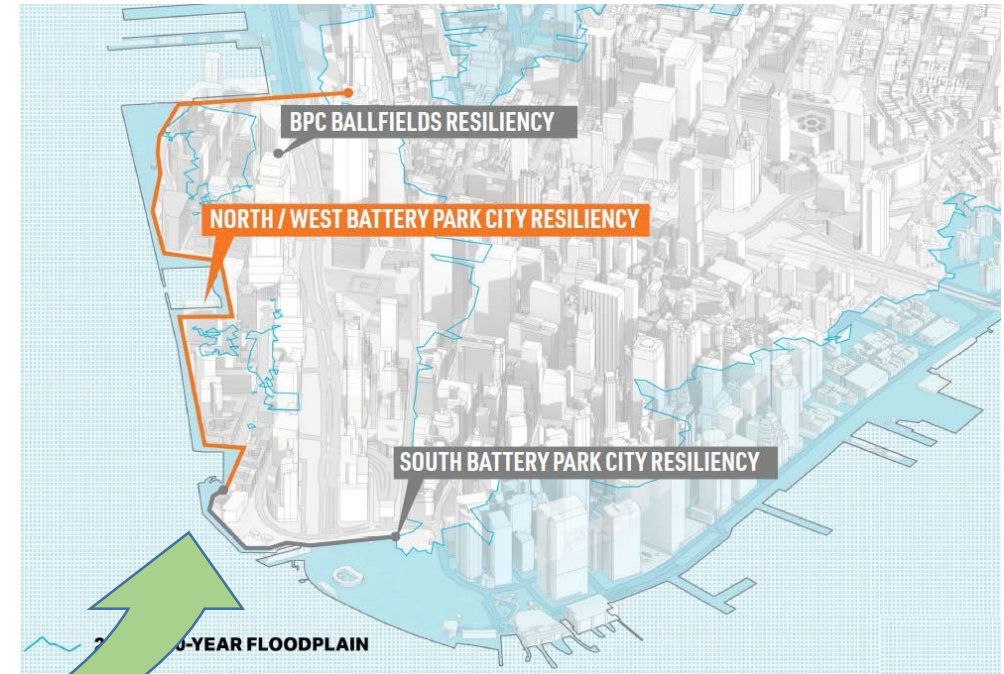


Lower Manhattan Resiliency

LMCR Initiatives



BPC Components



“We are not planning for the Lower Manhattan that exists today. We are planning for the Lower Manhattan of the future that will be underwater everyday if we don’t act now.”

-Mayor’s Office of Climate and Environmental Justice

https://fidiseaport.azureedge.net/wp-content/uploads/2021/12/FiDi-Seaport-Climate-Resilience-Master-Plan_Executive-Summary_EN-1.pdf



**Battery Park
City Authority**

Community Engagement



South Battery Park City Resiliency Project

- Pre-construction Community Walkthroughs (April 23 & 28, 2022)
- Project Update to Manhattan CB1 (March 21, 2022)
- Project Update to Manhattan CB1 (April 2021)
- Project Update to Manhattan CB1 (February 2021)
- Project Update to Manhattan CB1 (June 2020)
- January 15, 2020 Public Meeting
- October 3, 2019 Presentation to CB1 Environ. Protection Committee
- June 24, 2019 Public Meeting
- April 15, 2019 Public Meeting / Design Discussion
- March 12, 2019 Public Meeting
- November 1, 2018 Public Meeting
- Wagner Park Site Assessment & South BPC Resiliency Plan (July 13, 2017)
- Presentation to Manhattan CB1 (June 20, 2017)
- Wagner Park Public Presentation (March 22, 2017)
- Community Presentation (November 9, 2016)

BPC Ball Fields Resiliency

- BPC Ball Fields – Decorative Elements Review w/CB1 (May 18, 2020)
- September 26, 2019 Public Meeting
- July 25, 2019 Public Meeting
- March 21, 2019 Public Meeting
- November 19, 2019 Public Meeting

North / West Battery Park City Resiliency Project

- December 16, 2021 Public Meeting w/breakout rooms
- November 13, 2021 “Walkshop” (*by popular demand!*)
- October 28 & November 4 “Walkshops”
- August 4, 2021 public meeting

North BPC Resiliency Project

- July 23, 2020 Public Meeting
- February 27, 2020 Public Meeting
- October 1, 2019 Public Meeting

Overall/General Resiliency

- Assembly Member Niou 2022 Legislative & Budgetary: Environmental Protection / Resiliency Panel Presentation
- Lower Manhattan Coastal Resiliency (LMCR) Quarterly Update (January 24, 2022)
- Update to Manhattan CB1 Executive Committee (August 17, 2021)
- LMCR Quarterly Update (June 21, 2021)
- LMCR Update: Battery Coastal Resilience (March 24, 2021)
- Assembly Member Niou 2021 Legislative & Budgetary Town Hall: Resiliency Panel Presentation
- Assembly Member Niou 2020 Legislative & Budgetary Town Hall: Resiliency Panel Presentation
- Assembly Member Niou Town Hall Feb 2019: Resiliency & Environmental Protection Panel
- BPC Resiliency Assessment Overview (March 22, 2017)

Collaboration Partners



Timeline



November 2016 – July 2017

Perkins Eastman

**Assessment & Massing
Concept**

November 2018 – December 2019

AECOM

**Engineering & Updated Design
Concept**

January 2020 – September 2021

AECOM

Engineering & Revised Designs

September 2021 - Today

AECOM

Environmental Review & Final Design



**Battery Park
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2014



2014



2017

Objectives

- ***Use the property to provide resiliency protection for upland areas.***
- Extend the Esplanade thru to Pier A and the Battery
- Improve the park, for more use by BPC residents.
- Improve maintenance and support facilities.
- Provide better opportunity for food and beverage

Battery Park City Authority: Wagner Park

Perkins Eastman



**Battery Park
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2017



2017



2019

WHAT YOU TOLD US

JUNE 24 (PUBLIC MEETING)

VIEWS

UNIVERSAL ACCESSIBILITY

MAXIMIZE GREENSPACE

PARK RESTROOMS

OPEN LAWN

GARDEN ROOMS / INTIMATE SPACES

SUSTAINABILITY

FLEXIBLE PROGRAMMING

**COMMUNITY EVENTS/
OUTDOOR CLASSROOMS**

WHAT YOU TOLD US

OCT 3 (CB1 ENVIRONMENTAL)

**ALTERNATE OPTIONS FOR
PIER A PLAZA**

**FURTHER DEVELOPMENT OF
DEPLOYABLES**

**FURTHER DEVELOPMENT OF
POST/COLUMNS**

**REFINEMENT OF BERM FLOOD
WALL / PLANT PALETTE**

**ENHANCED CIRCULATION
CONSIDERATIONS**

MATERIALITY & AESTHETICS

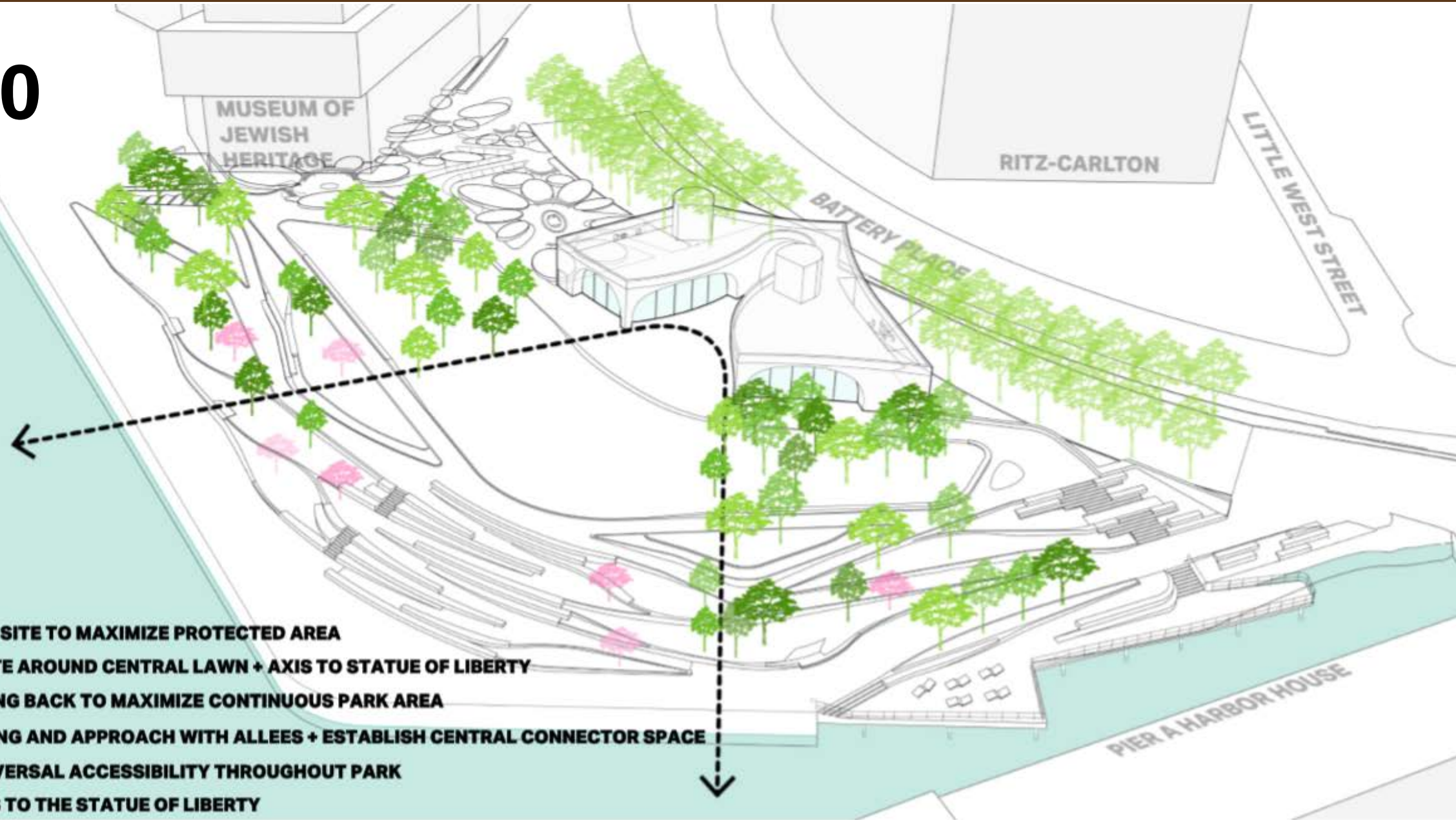
2019



2019



2020



- 1 ELEVATE THE SITE TO MAXIMIZE PROTECTED AREA
- 2 ORGANIZE SITE AROUND CENTRAL LAWN + AXIS TO STATUE OF LIBERTY
- 3 MOVE BUILDING BACK TO MAXIMIZE CONTINUOUS PARK AREA
- 4 ALIGN BUILDING AND APPROACH WITH ALLEES + ESTABLISH CENTRAL CONNECTOR SPACE
- 5 PROVIDE UNIVERSAL ACCESSIBILITY THROUGHOUT PARK
- 6 FRAME VIEWS TO THE STATUE OF LIBERTY

2020



2020



2022



2022



2022



2022



2022



2022



2022



2022

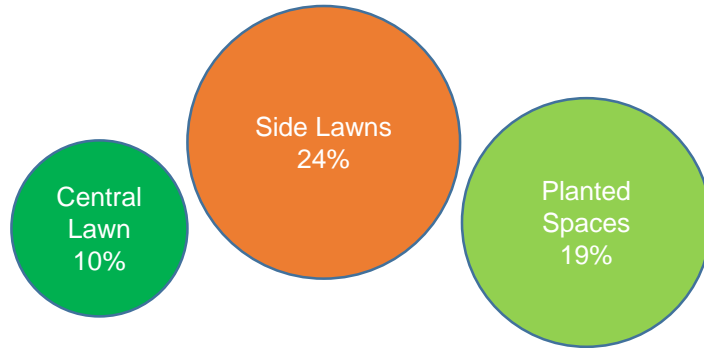


2022

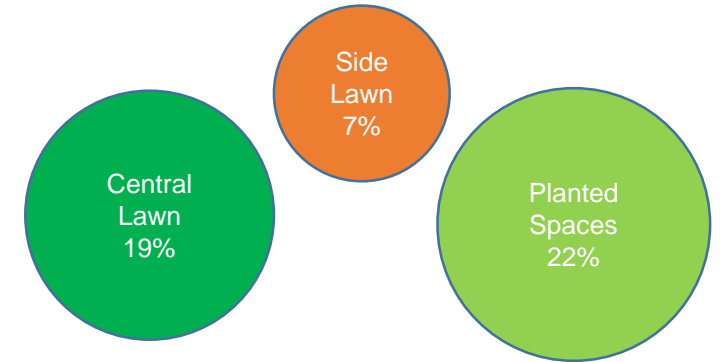


Wagner Park

Existing:



New:



Wagner Park Pavilion

| | | Existing SF | New SF |
|--------------|----------------------------|--------------|--------------|
| First Floor | Public Toilets | 1,060 | 963 |
| | Restaurant | 1,925 | 2,792 |
| | Community Room | - | 1,672 |
| | BPC Parks Operations | 770 | - |
| | Mechanical | 540 | - |
| | Restaurant Kitchen/Support | 1,240 | - |
| | Public Elevator Lobby | - | 104 |
| | Subtotal | 5,535 | 5,531 |
| Ground Floor | BPC Parks Operations | - | 3,586 |
| | Mechanical | - | 762 |
| | Restaurant Kitchen/Support | - | 2,511 |
| | Subtotal | - | 6,859 |

| | | |
|--------------------|--------------|---------------|
| Grand Total | 5,535 | 12,390 |
|--------------------|--------------|---------------|

| | | | |
|------|-----------------------|--------------|--------------|
| Roof | Walkable Roof Terrace | 2,625 | 3,747 |
| | Green Roof | - | 1,522 |
| | Roof Subtotal | 2,625 | 5,269 |



North/West Battery Park City Resiliency



North/West Battery Park City Resiliency



- The NWBPCR project provides perimeter storm and flood protection system on northern boundary
- Continuous flood barrier to cover North Esplanade, cross West Street, and areas east of West Street that will be a part of the complete flood barrier system for BPC.
- It will build upon the existing system of garden/park walls along the Esplanade and employ targeted supplemental landscaping elements and deployable barrier

Progressive Design Build
Contractor Short-list
Development (December
2021)

RFP Issuance
(Jan 2022)

Project Definition
Completion
(February 2022)

Contractor
Selection
(July 2022)

EIS Completion
(May 2023)

Construction
Start (Sept 2023)

Construction
Completion
(Feb 2026)

Timeline - Preliminary Estimate**

**Contingent on NYC approvals; also dependent on vendor selection & final design



**Battery Park
City Authority**



This blue color represents the height of potential flooding from future severe weather.

The Battery Park City Authority is responding to this threat through its resiliency projects, in conjunction with the City of New York.

This height is calculated for a 2050 100-year storm based on Sea Level Rise estimates as published by the NYC Panel on Climate Change.

Learn more about BPC's resiliency projects:
bpca.ny.gov



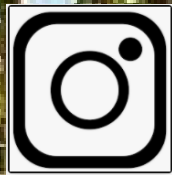
Thank you!

Contact: info.bpc@bpca.ny.gov

Website: bpca.ny.gov



Battery Park City Parks



@bpcparks



@bpca_ny

Flythrough Videos

- [Wagner Park – A Roam Around the Lawns](#)
- [Wagner Park – Garden Meander](#)
- [Wagner Park – The Allee Approach](#)
- [Wagner Park – Sidewalk Stroll](#)
- [A Walk From The Battery to Pier A Plaza](#)