



Battery Park City Ballfields & Community Center Resilience Project

Public Meeting
Presentation

November 19, 2018

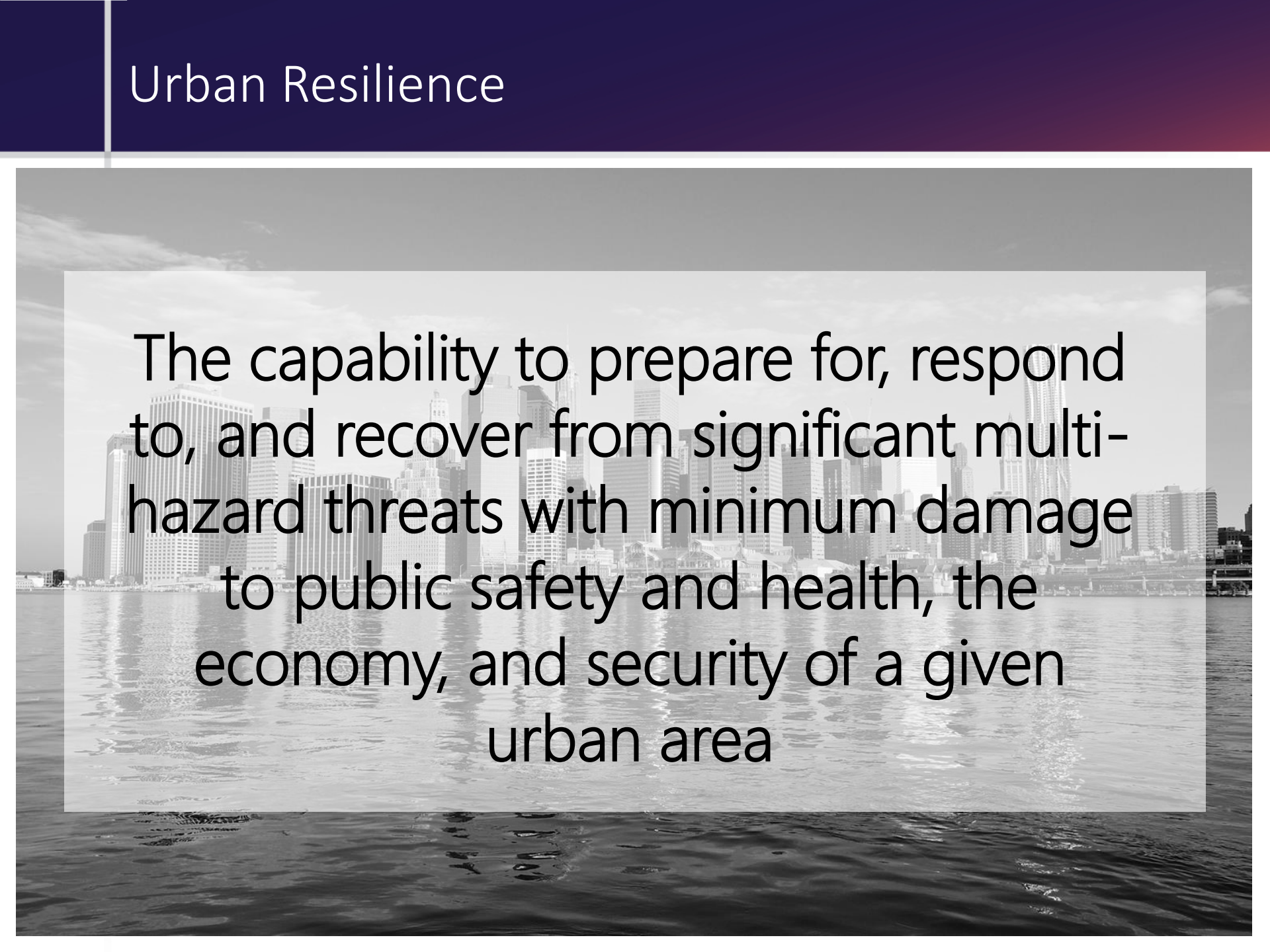


NEW YORK
STATE OF
OPPORTUNITY

Battery Park
City Authority



Urban Resilience



The capability to prepare for, respond to, and recover from significant multi-hazard threats with minimum damage to public safety and health, the economy, and security of a given urban area

About STV

- Full-service A/E, Environmental & CM firm
- Serving New York since 1912
- Employee-Owned
- 1,800 staff in 40+ offices nationwide
 - Nearly 1,000 professionals in the greater New York region
- Over 70 storm resiliency projects with 23 clients since Sandy (\$1.5B construction value)



Collaborative Team



SiteWorks
Landscape
Architecture



Yu & Associates
Geotechnical
Engineering

STV Incorporated
Prime Consultant



Project Management
Infrastructure &
Resilience
Engineering

**Invictus
Engineering**
Estimating and
Scheduling

InGroup Inc.
Community
Outreach



**Naik Consulting
Group**
Topographic &
Utility Surveys



STV - Extensive High-profile NYC Experience



WTC TRANSPORTATION HUB



GOVERNORS ISLAND REDEVELOPMENT



ROUTE 9A & LOWER MANHATTAN STREETS RECONSTRUCTION



WTC SITE REDEVELOPMENT PROGRAM MANAGEMENT

SiteWorks – Sustainable Landscape Solutions

- Passion for creating durable outdoor urban environments through careful engagement of design, technology, science & building craft
- Envision comprehensive solutions that maximize a site's social, ecological & aesthetic potential



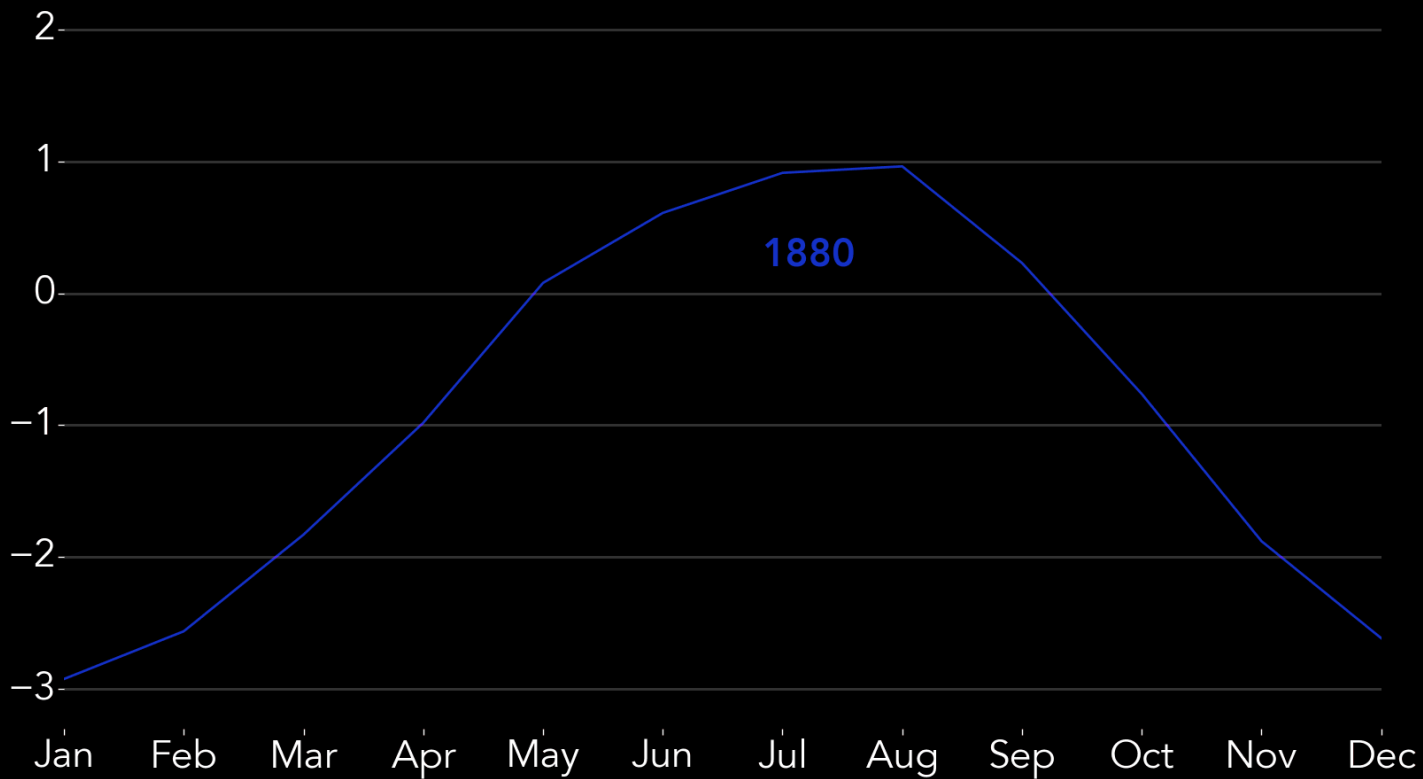
Background

Climate Change

Temperature Anomaly (°C)

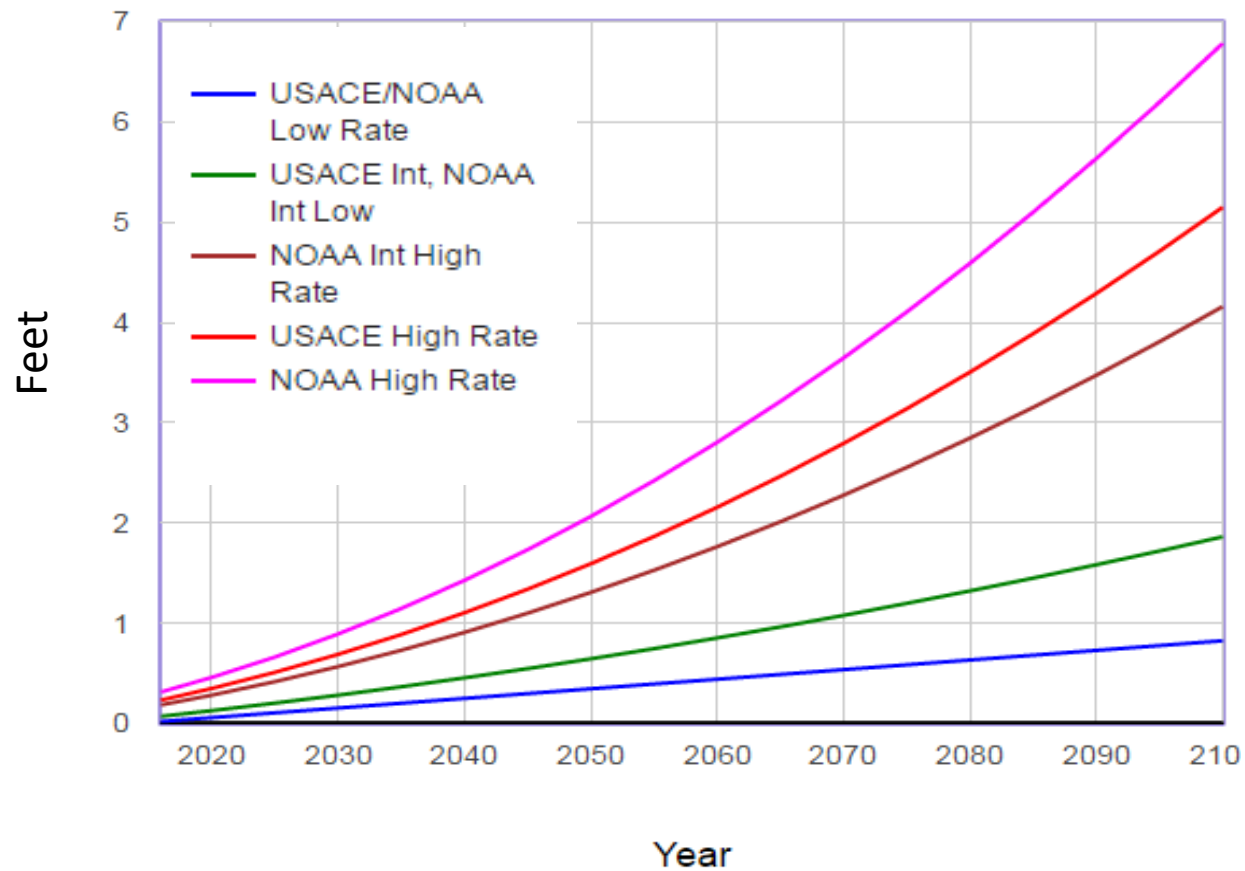
(Difference from 1980-2015 annual mean)

Record Years

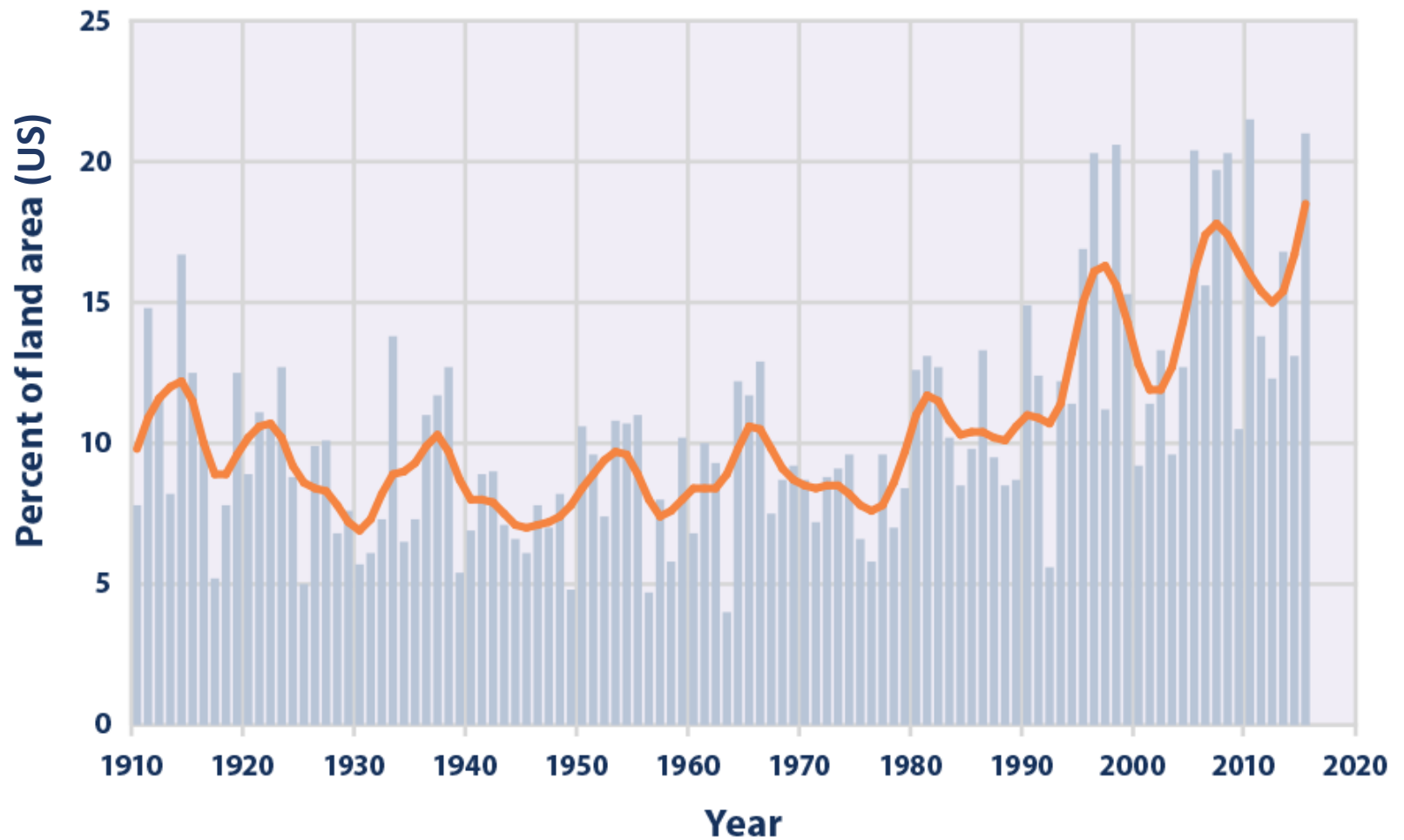


Sea Level Projections

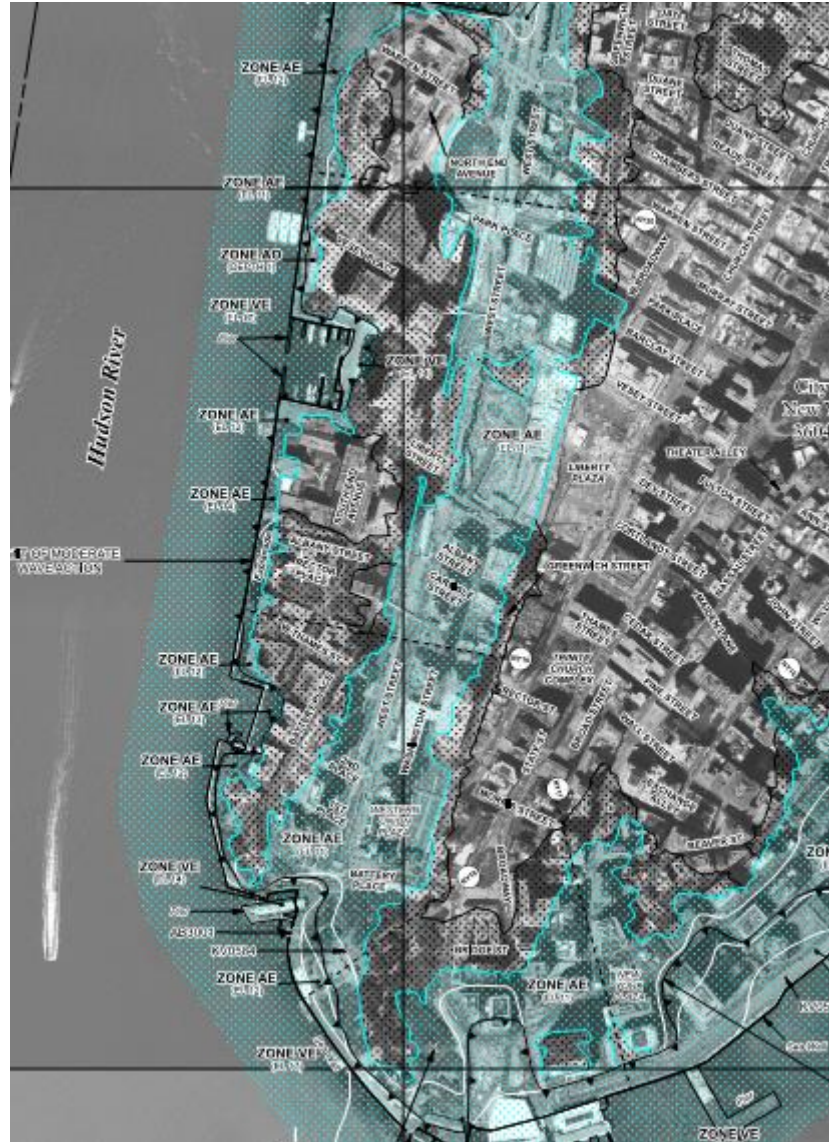
Relative Sea Level Change Projections - Gauge: 8518750, The Battery, NY (05/01/2014)



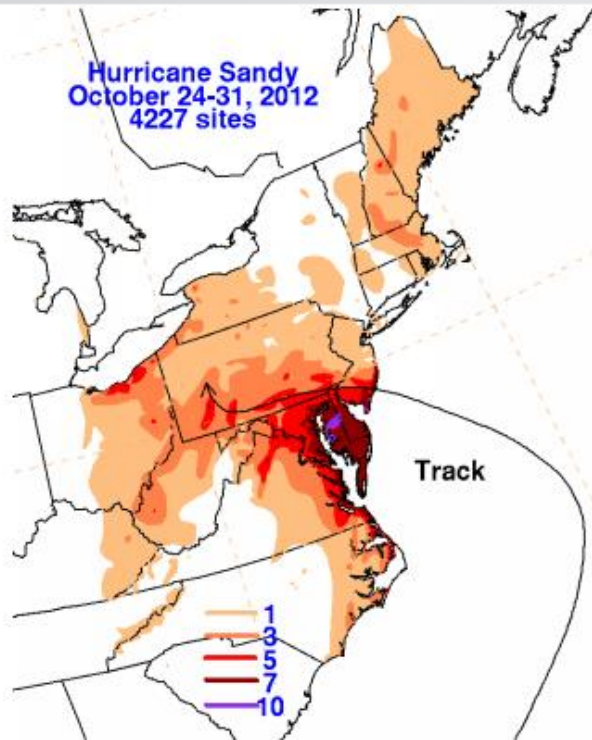
Heavy Rainfall



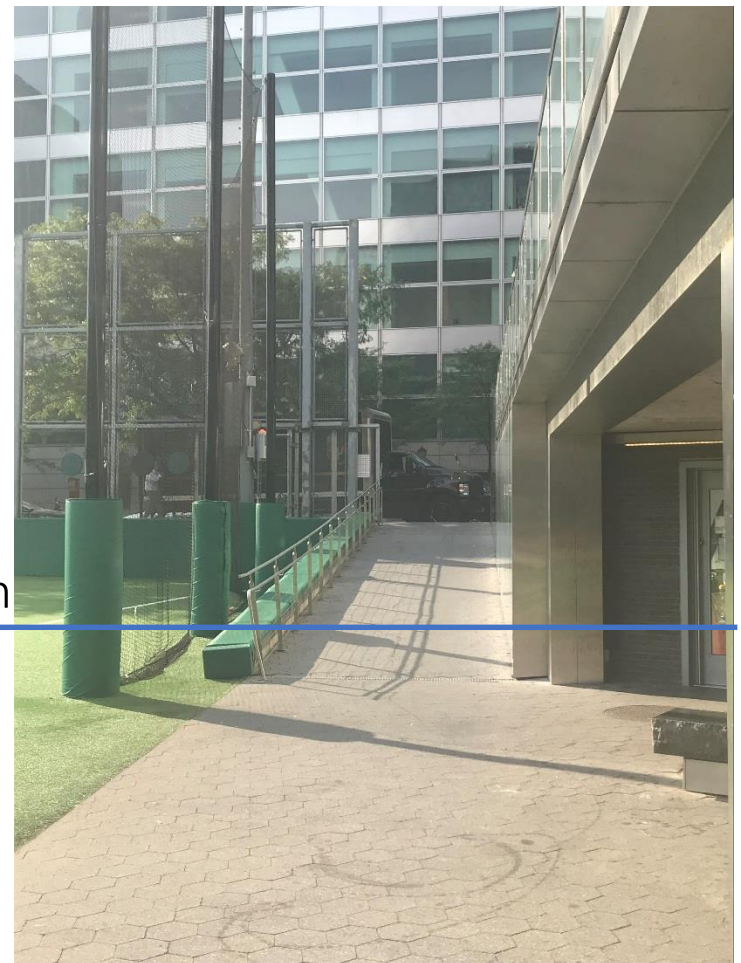
Influence of Flooding



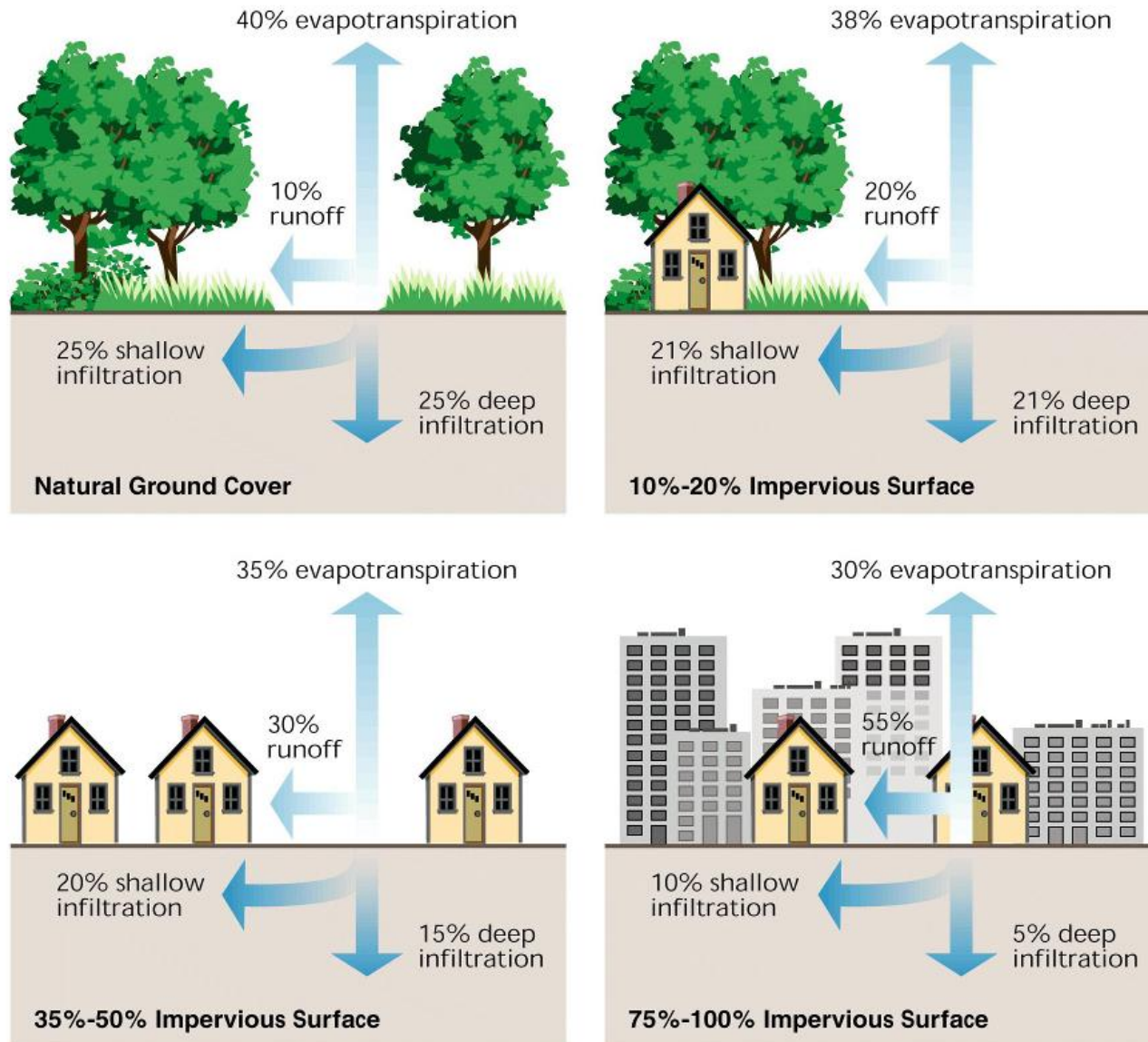
Hurricane Sandy



Storm Surge Inundation Elevation



Urban Development



Source: Adapted
from Arnolds
and Gibbons

Community

+

Open Space

+

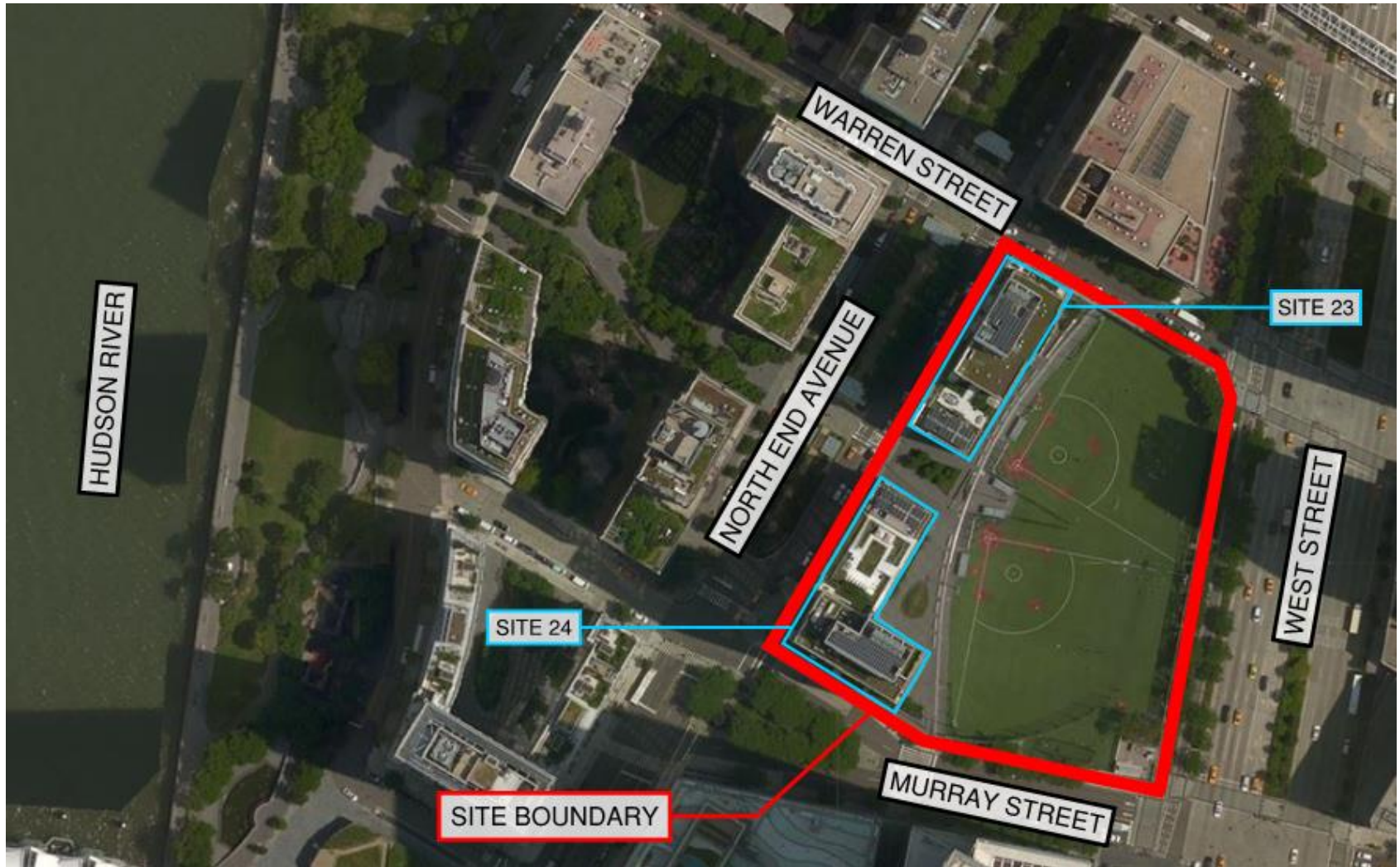
Resilience

Project Goal



Integrate systems seamlessly with architecture and functional requirements to ensure the safety and purpose of the open and building spaces.

Integrated Approach



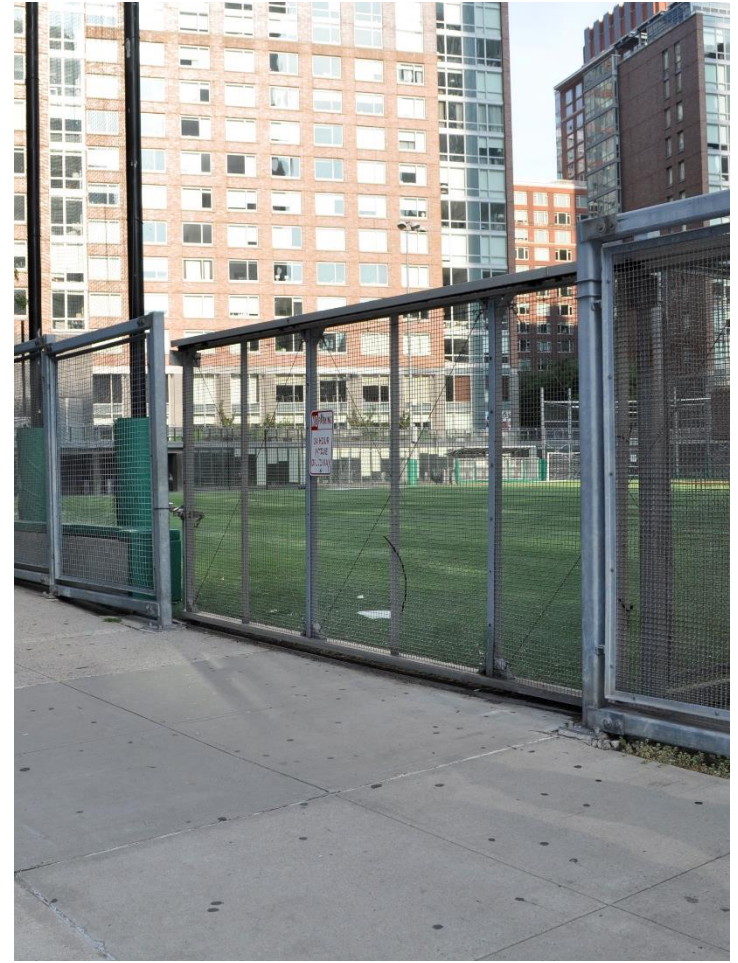
Integrated Approach – Subsurface



Integrated Approach - Geometries



Integrated Approach – Accessibility



Integrated Approach – Open Space



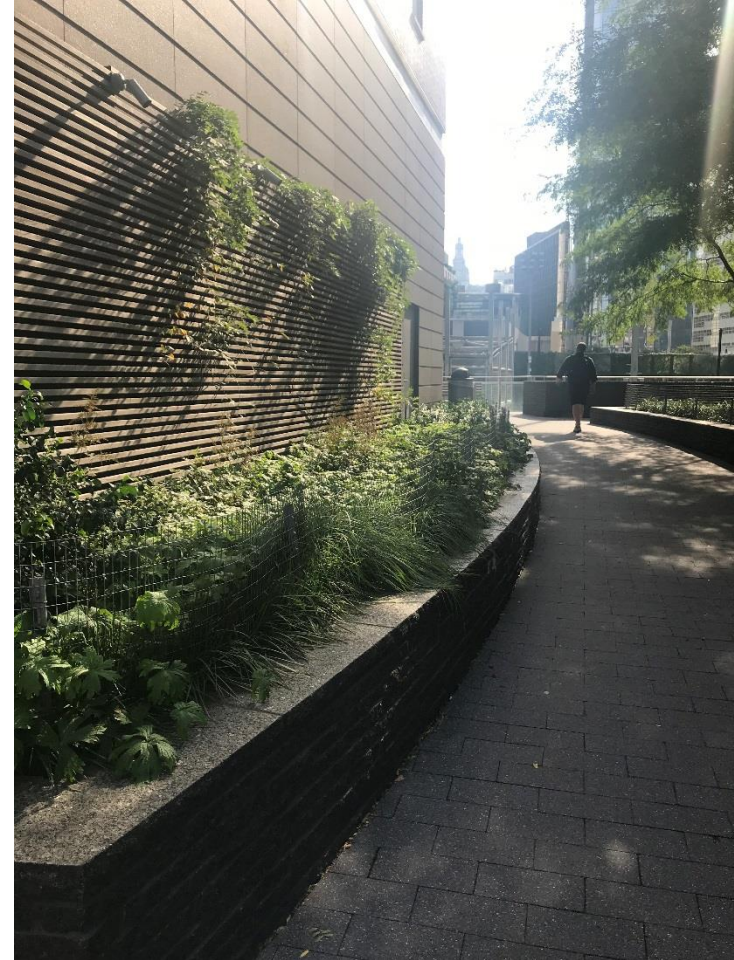
Integrated Approach – Visibility



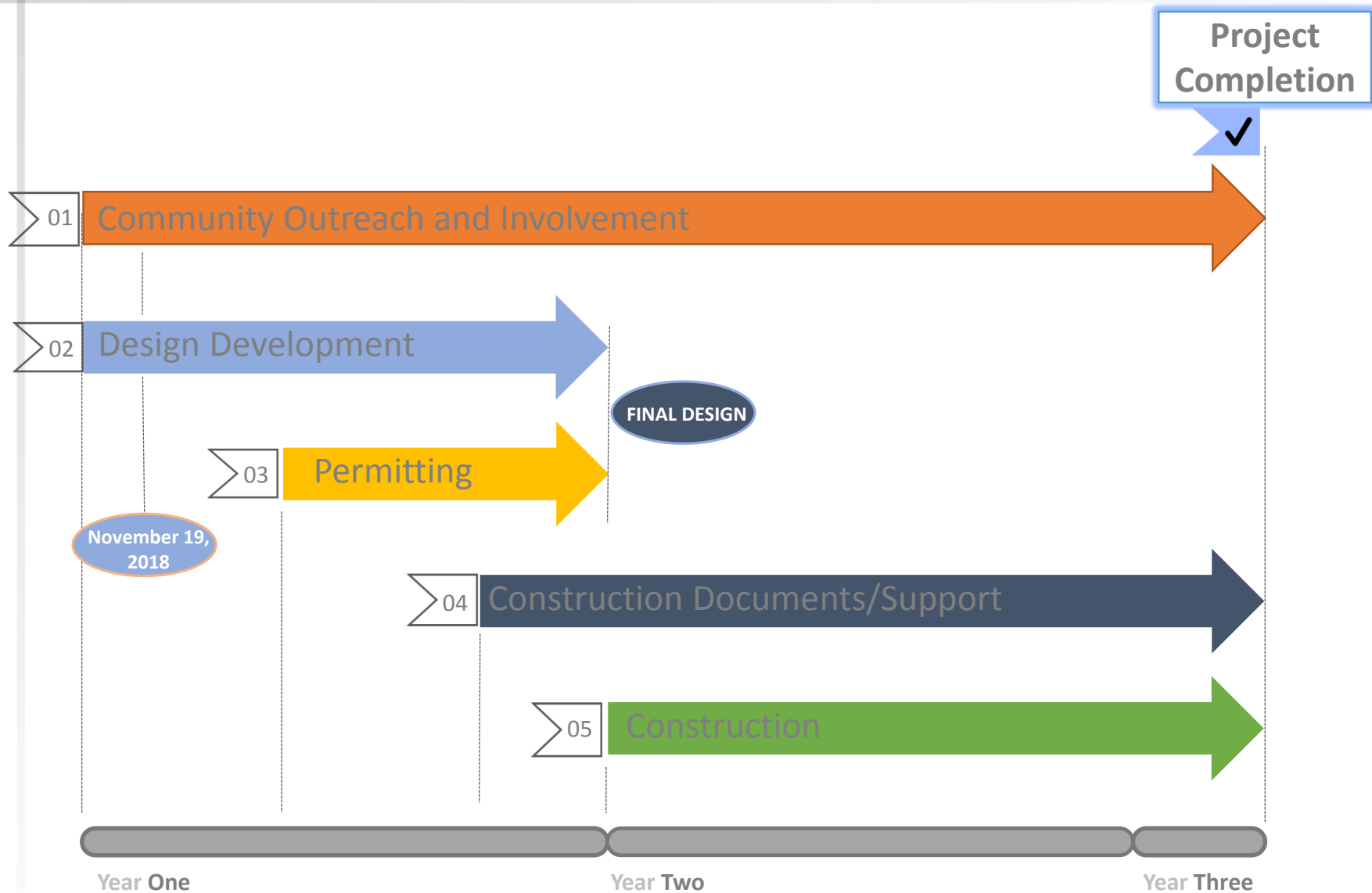
Integrated Approach – Softscape



Integrated Approach – Hardscape



Project Schedule



A black and white photograph of the New York City skyline, viewed from across a body of water. The skyline features numerous skyscrapers, including the Empire State Building and the Freedom Tower. The water in the foreground shows ripples and reflections of the buildings. The text "Questions and Comments" is overlaid in the center of the image in a large, black, sans-serif font.

Questions and Comments