## THE BATTERY COASTAL RESILIENCE

CB-1 Meeting February 5<sup>th</sup>, 2024



# **Project Overview**



#### **EDC Managing Project on Behalf of Parks**

Design Team: Stantec Consulting Services Inc. Construction Manager: Hunter Roberts CG

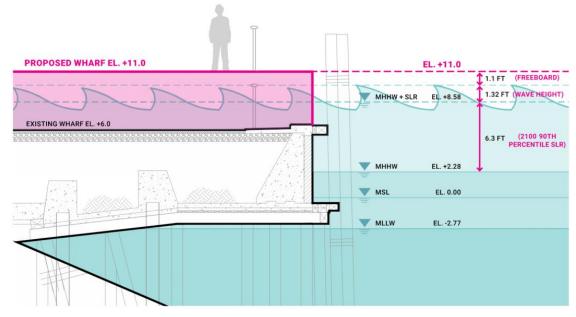
Current Project Budget: \$200M

#### Stakeholder Coordination:

► Finalized Coordination with Multiple stakeholders on 100% design

#### **Project Progress:**

- ▶ 100% Coordinated Design Complete June 2023
- ► Subcontractor Awards 90% Complete
- Phase 1 Staging Area and Work Zone Capture -Ongoing



#### **Upcoming Milestones**

- NPS Tent Operational February '24
- Phase 1 Salvage Commence February '24
- Phase 1 Marine Demo Commence March '24



# 2100 Mean Higher High Water

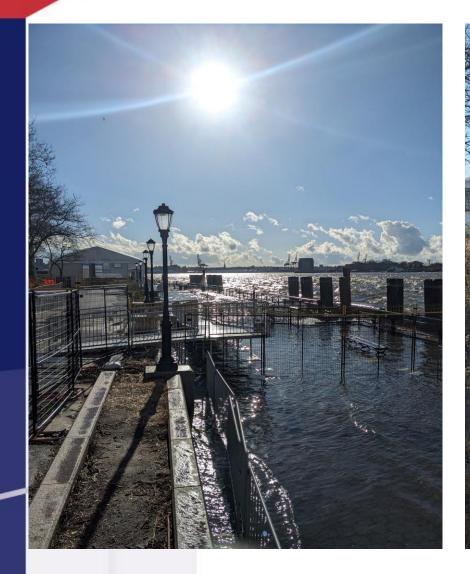


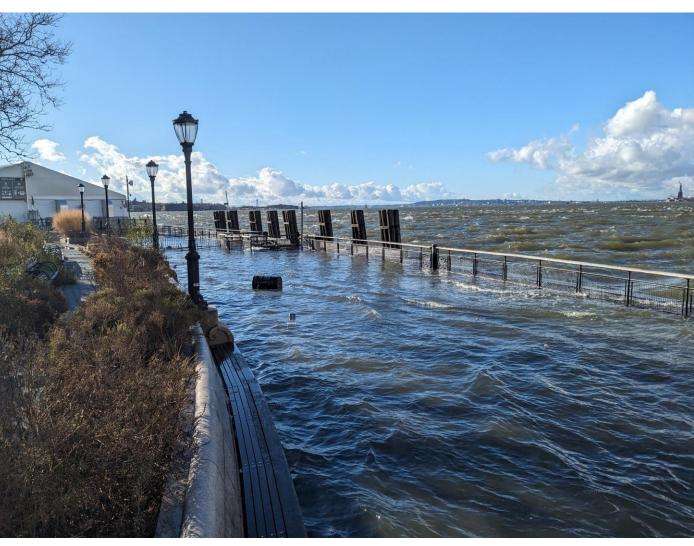
If wharf elevation Remains unchanged



# Photos from Jan 12, 2024 Storm

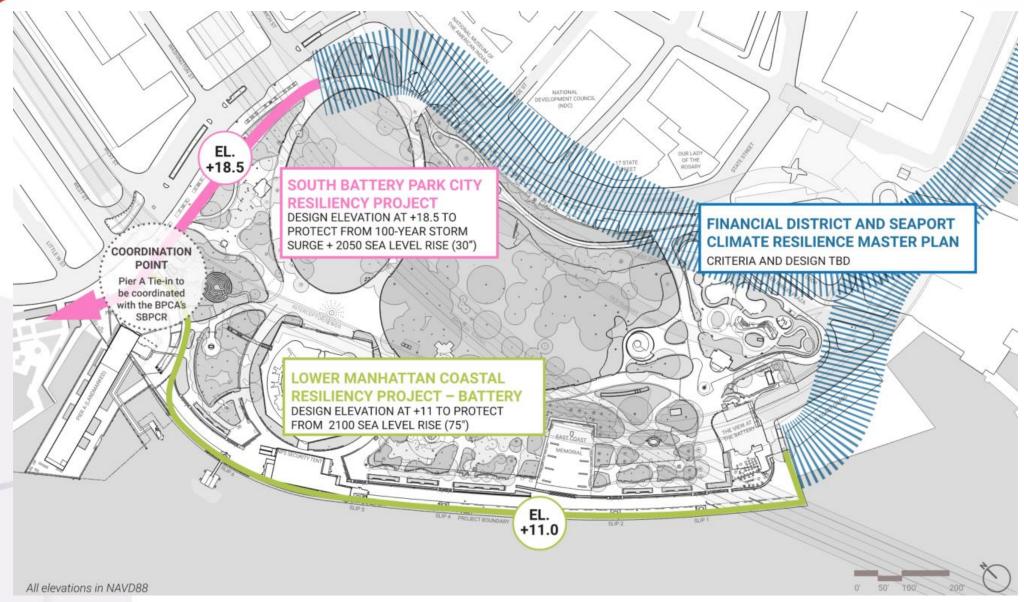






# South End/FIDI Resiliency tie-in





# Existing Wharf vs Proposed Wharf





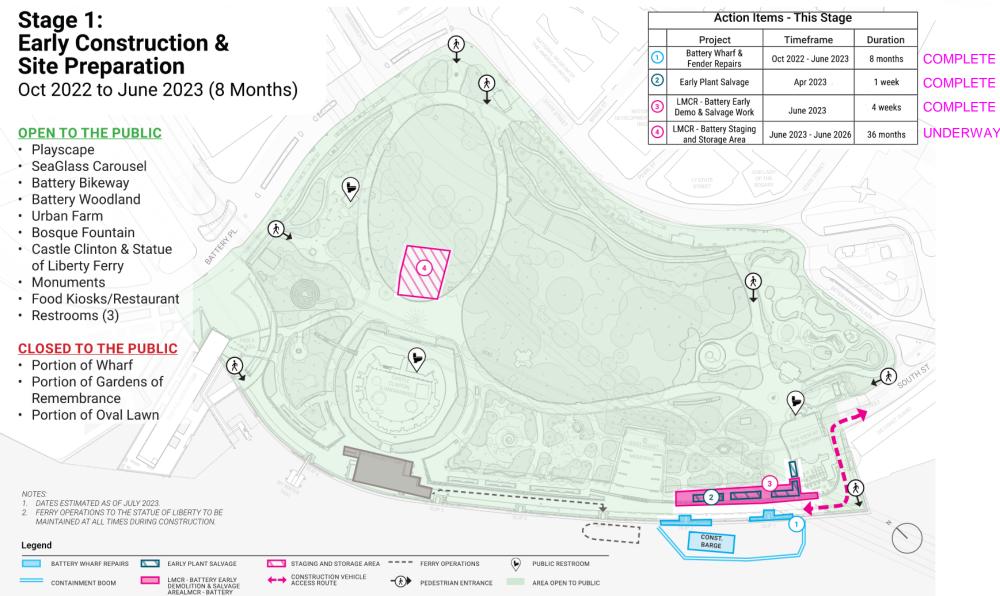
**Existing Wharf** 



**Proposed Wharf** 

# LMCR – Schedule/Phasing Update

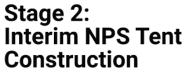




# LMCR - Schedule/Phasing Update

\*





July 2023 to Jan 2024 (7 Months)

#### **OPEN TO THE PUBLIC**

- Playscape
- SeaGlass Carousel
- Battery Bikeway
- · Battery Woodland
- Urban Farm
- Bosque Fountain
- Castle Clinton & Statue of Liberty Ferry
- Monuments
- · Food Kiosks/Restaurant
- Restrooms (3)

#### **CLOSED TO THE PUBLIC**

- Portion of Wharf
- · Portion of Gardens of Remembrance
- · Portion of Oval Lawn

- DATES ESTIMATED AS OF JULY 2023.
- FERRY OPERATIONS TO THE STATUE OF LIBERTY TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- FERRY OPERATIONS TO SHIFT TO SLIP 2 JULY 2023.



WATER TAXI DEMOBILIZATION 👍 📥







Duration UNDERWAY 36 months UNDERWAY 20 months UNDERWAY 6 months COMPLETE

4 weeks

3 weeks







Action Items - This Stage

Timeframe

June 2023 - June 2026

Oct 2023 - Early/Mid

2025

July 2023- Jan 2024

Oct 2023

Jan 2024 - Feb 2024

Project

LMCR - Battery Staging

and Storage Area

SBPCR Project

Interim NPS Tent

Construction

Water Taxi

Demobilization

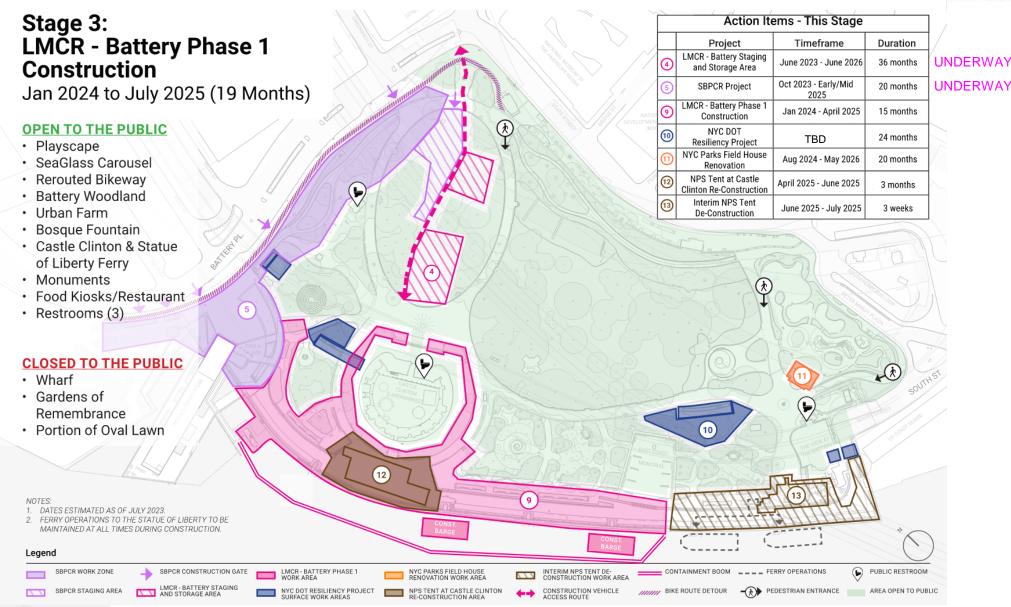
NPS Tent at Castle

Clinton De-Construction



# LMCR - Schedule/Phasing Update





# LMCR - Schedule/Phasing Update

(1)

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Stage 4: LMČR - Battery Phase 2 Construction

July 2025 to June 2026 (11 months)

#### **OPEN TO THE PUBLIC**

- Playscape
- · SeaGlass Carousel
- Rerouted Bikeway
- · Battery Woodland
- Urban Farm
- Bosque Fountain
- · Castle Clinton & Statue of Liberty Ferry
- Monuments
- Food Kiosks
- Restrooms (3)

#### **CLOSED TO THE PUBLIC**

- · Portion of Wharf
- · Portion of Gardens of Remembrance
- · Portion of Oval Lawn

	Action Items - This Stage				
		Project	Timeframe	Duration	
	4	LMCR - Battery Staging and Storage Area	June 2023 - June 2026	36 months	1
	11)	NYC Parks Field House Renovation	Aug 2024 - May 2026	20 months	
NATION DEVELOPMEN	14)	LMCR - Battery Phase 2 Construction	July 2025 - June 2026	11 months	
(NOC	LMCR - Battery Phase 2 Link 2025 - Line 2026 11 months				



- DATES ESTIMATED AS OF JULY 2023

#### Legend



LMCR - BATTERY STAGING









(₹)→









Construction Fence Installation In Progress

#### Salvaged Material Storage





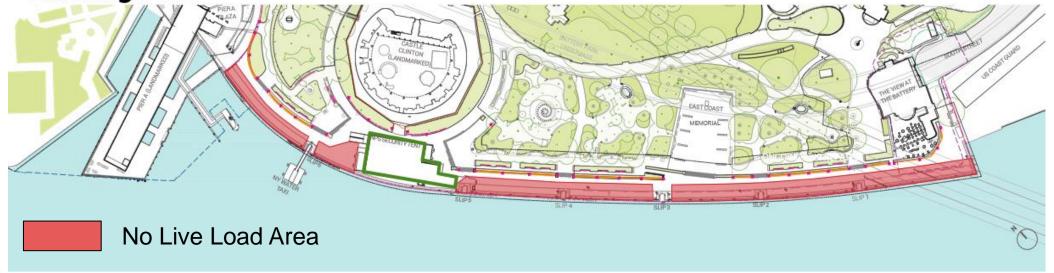
**NPS East Tent** 



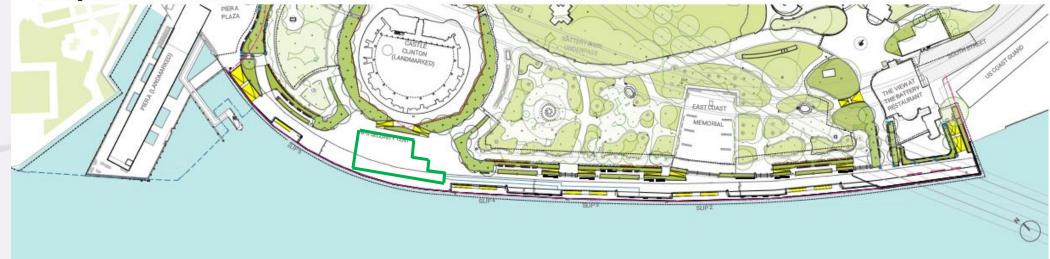
### Overall Wharf Plan



**Existing Plan** 



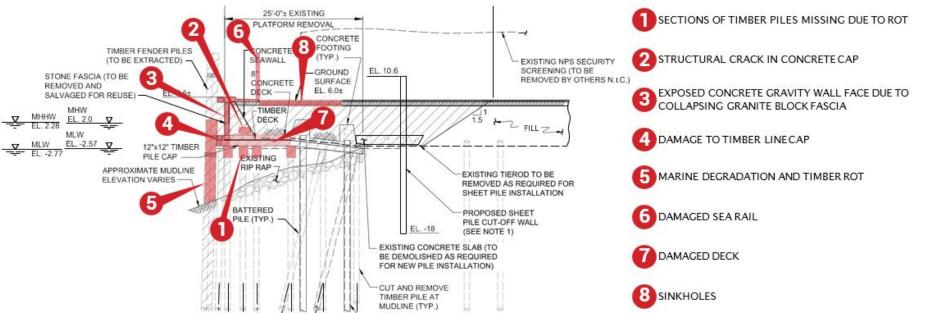
#### **Proposed Plan**



# **Existing Conditions**







# **Existing Conditions (continued)**





**SINKHOLE** 



LOSS OF GRANITE BLOCK FASCIA



**DAMAGED CONCRETE** 



TIMBER PILE LOSS DUE TO ROT

# Demolition & Salvage

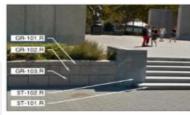
### Site Salvage Materials SITE MATERIAL INVENTORY PHOTOS











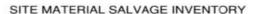












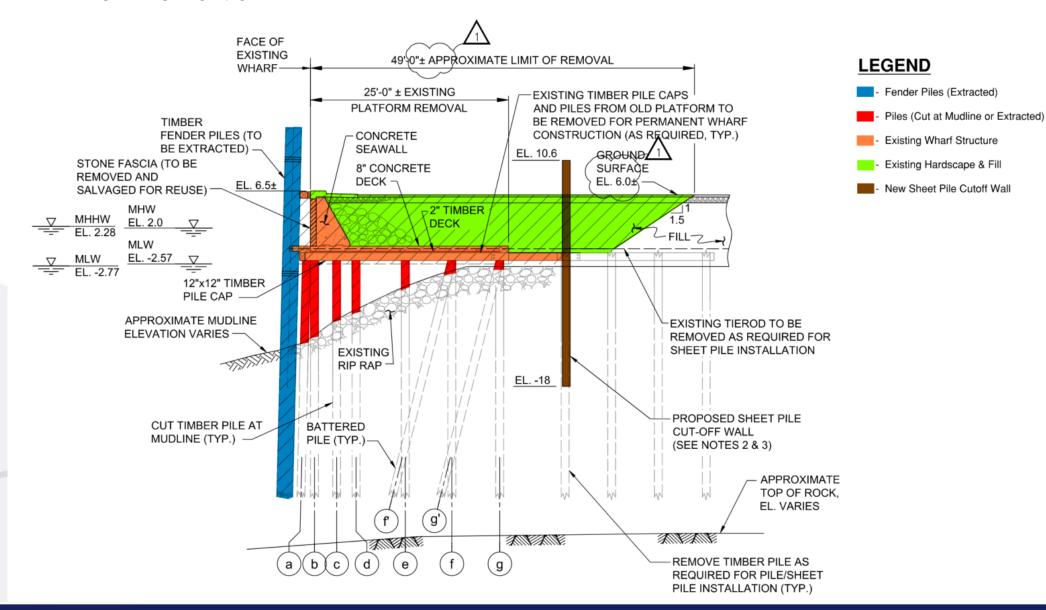
MATERIAL TYPE	MATERIAL SUBTYPE	MATERIAL CODE	ELEMENT TYPES	MANAGEMENT STRATEGY	TYPICAL
		GR-100.R	GRANITE CURB	REUSE ON SITE	47.5" x 12" x 12
		GR-101.FI	GRANITE WALL - CAPSTONE	REUSE ON SITE	47.5" x 12" x 6"
		GR-102.R	GRANITE WALL - VENEER UPPER COURSE	REUSE ON SITE	23.5" × 12.5" ×
		GR-103.R	GRANITE WALL - VENEER LOWER COURSE	REUSE ON SITE	23.5° x 19.5° x
		GR-104-R	GRANITE WALL - SOLID UPPER COURSE	REUSE ON SITE	23.5" x 12.5" x
		GR-105.R	GRANITE WALL - SOLIO LOWER COURSE	REUSE ON SITE	23.5" x 19.5" x
		GR-201 R	GRANTE BACKED BENCH WALL - CAPSTONE	REUSE ON SITE	47.5° x 8° x 15
		GR-201 R	GRANTE BACKED BENCH WALL - VENEER UPPER COURSE		-
				REUSE ON SITE	23.5" x 12.5" x
		GR-203.R	GRANITE BACKED BENCH WALL - VENEER LOWER COURSE	REUSE ON SITE	23.5" x 19.5" x
PINK GRANITE		GR-301.R	GRANITE LOW WALL - CAPSTONE	REUSE ON SITE	22" x 6" x 60"
		GR-302.R	GRANITE LOW WALL - VENEER	REUSE ON SITE	15" x 3" x 50"
	GR-501.R	GRANITE PIER TYPEA	REUSE ON SITE	29° × 39° × 38°	
	GR-511.R	GRANITE PIER TYPE B - LEFT HAND SCROLL FACING LAND	REUSE ON SITE		
	GR-512.R	GRANITE PIER TYPE B - RIGHT HAND SCROLL FACING LAND	REUSE ON SITE		
	GR-513.R	GRANITE PIER TYPE B - NO SCROLL	REUSE ON SITE		
	GR-521.R	GRANITE PIER TYPE C - LEFT HAND SCROLL FACING LAND	REUSE ON SITE	56" x 39" x 12	
		GR-522.R	GRANITE PIER TYPE C - RIGHT HAND SCROLL FACING LAND	REUSE ON SITE	30.5" x 31" x 3
		GR-523.R	GRANITE PIER TYPE C - NO SCROLL	REUSE ON SITE	30.5" x 31" x 3
		GR-531.R	GRANITE PIER TYPE II	REUSE ON SITE	
		GR-601.R	STEP TREAD - GRANTE	REUSE ON SITE	18" x 84" x 4"
		GR-602 R	STEP TREAD - GRANTE WITH TEXT	REUSE ON SITE	10" x 84" x 4"
		GR-001.R	WHARF GRANITE FASCIA	REUSE ON SITE	72" x 24" x 12"
	LIMESTONE	ST-101 R	STEP TREAD (AT EAST COAST MEMORIAL)	REUSE ON SITE	96" x 17" x 5"
		ST-102 R	PIER TYPE D (AT EAST COAST MEMORIAL)	REUSE ON SITE	36" x 62" x 76"
		ST-103.R	CASTLE CLINTON BOLLARD	REUSE ON SITE	36" x 10"
		GB-101.R	GRANTE COBBLE CURB	REUSE ON SITE	12" + 4" + 12"
	COBBLESTONE	GB-102 R			14.55
	COBBLESTONE		GRANITE COBBLE PAVER - TYPE 1	MEUSE ON SITE	Varies
		GB-103.FI	GRANITE COBBLE PAVER - TYPE 2	REUSE ON SITE	Varies
	BLUESTONE	BL-101.R	CASTLE CLINTON BLUESTONE COPING	REUSE ON SITE	91.92° x 30° x
BRONZE	BRONZE	MTL-103.R	HANDRAL BRONZE SCROLL/VOLUTE	REUSE ON SITE	
		MTL-104.R	CASTLE CUNTON BOLLARD CHAIN	REUSE ON SITE	961
PANTED ME		MTL-301.R MTL-311.R	SEARAL BOLLARD  BENCH SEAT SUPPORT BRACKETS	REUSE ON SITE	
		MTL-312 R	WORLD'S FAIR BENCH LEGS - BACKLESS (COMPLETE SET OF	REUSE ON SITE	
	PAINTED METAL		3) WORLD'S FAIR BENCH LEGS - WITH SEATBACK (COMPLETE		
		MTL-313.R	SET OF 3)	REUSE ON SITE	
		MTL-401.R	RAME BENCH	MELICAL CALCUTE	
	ALUMINUM	MTL-501.R	B POLE (STANDARD PARK SECURITY LIGHTING) WATERFRONT PUBLIC ACCESS SIGN	PROVIDE TO DOT REUSE ON SITE	
	ALUMINUM	WD-101.R	BENCH SEAT - SLAT	REUSE ON SITE	96" long
0		WD-101.R	SEATWALL - BULLNOSE FASCIA PECE	AEUSE ON SITE	96" long
WOOD	W000	WD-301 R	WORLD'S FAIR BENCH SLAT (FOR BOTH BACKLESS AND WITH	REUSE ON SITE	96" long
>		WD-301.R	SEARAL TOP RAIL	REUSE ON SITE	Varies



# Demolition & Salvage

Wharf Demolition









**Typical Wharf Section** 



**LEGEND** 

RipRap Berm

Precast Planks

- Park Finishes

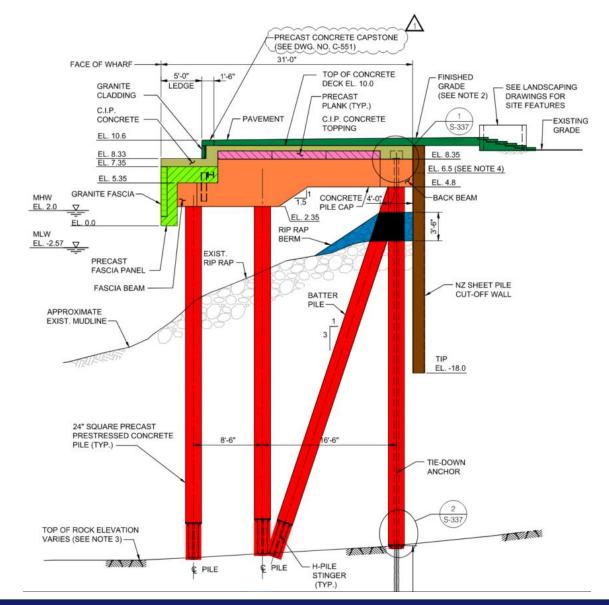
Precast Concrete Piles

Pile Caps & Longitudinal Beams

- Cast-in-Place Topping Slab

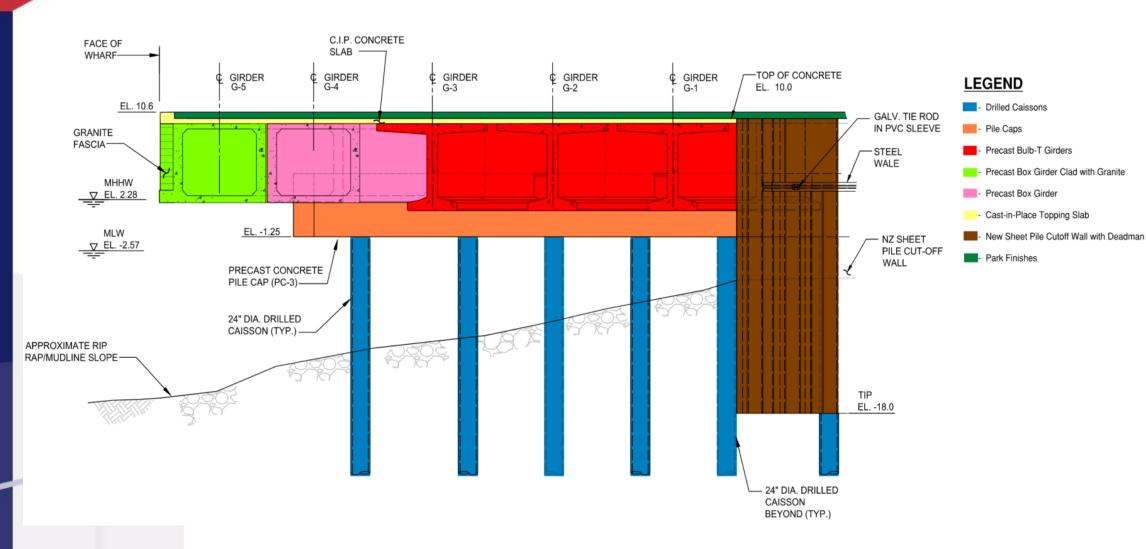
New Sheet Pile Cutoff Wall

Precast Fascia Panels Clad with Granite



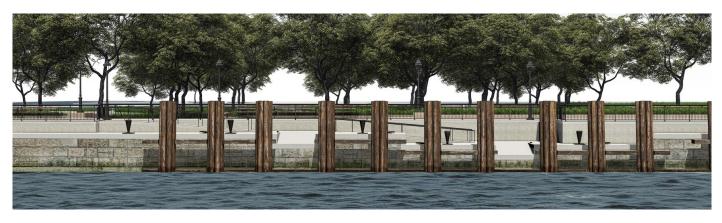
#### Wharf Section Over Tunnel





Typical Vessel Slip

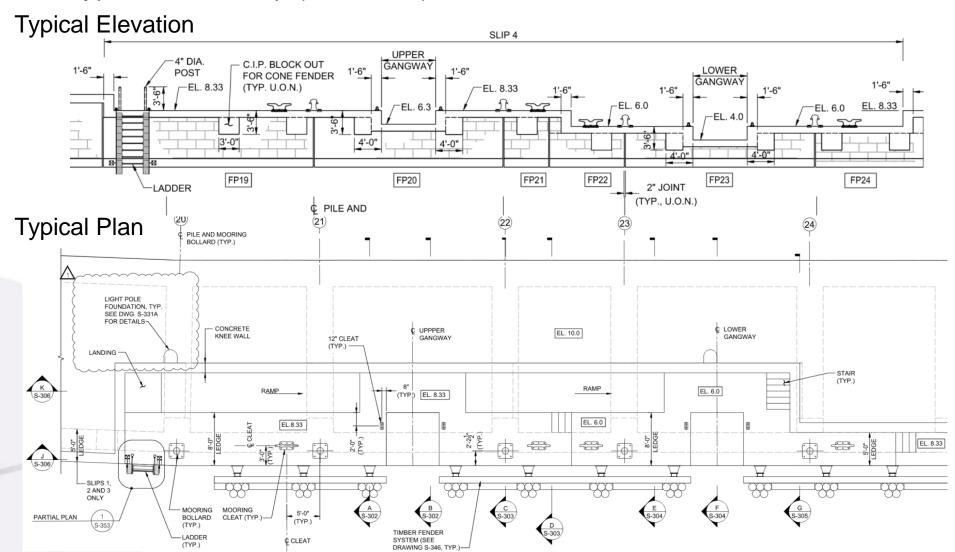






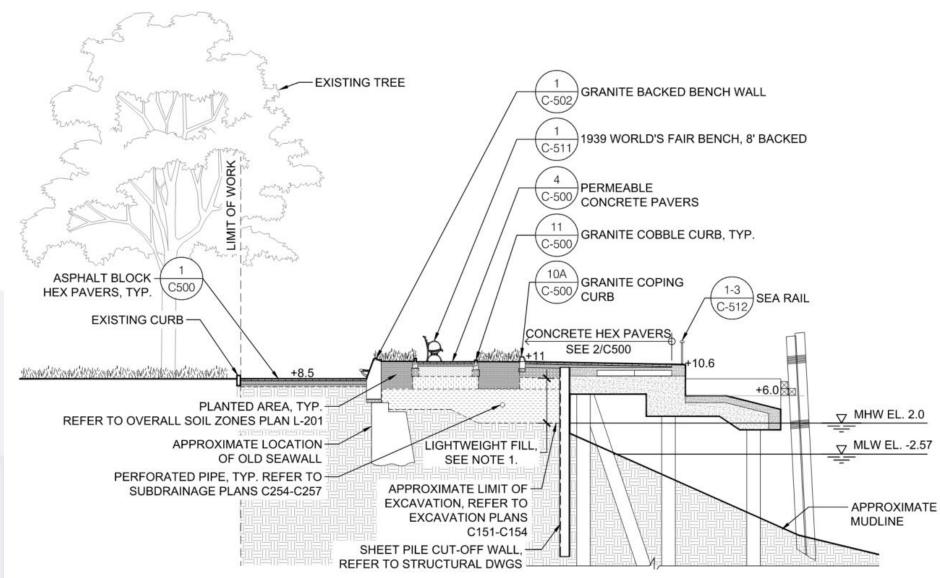
Typical Vessel Slip (continued)





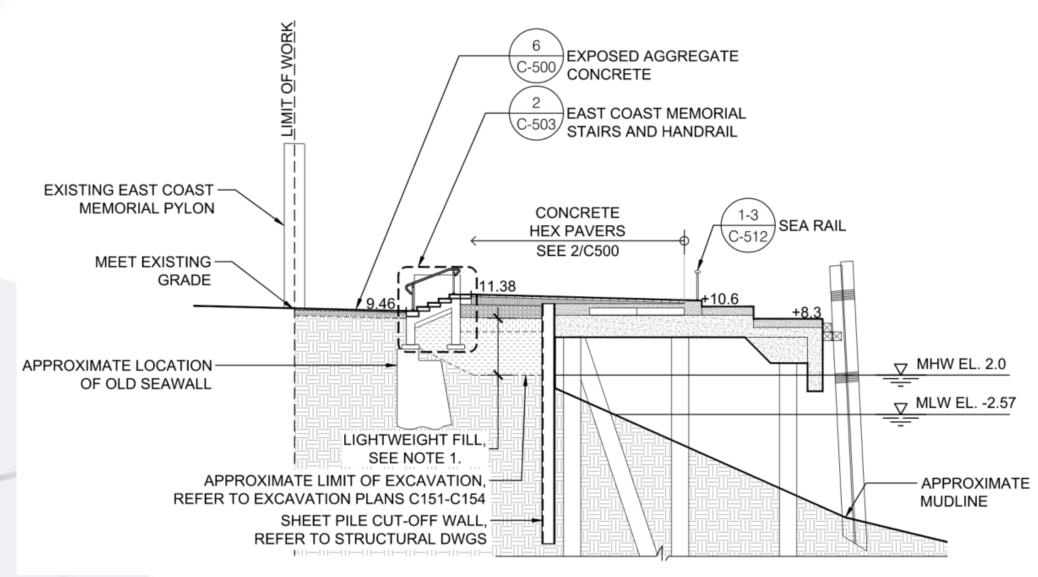
HUNTER ROBERTS

**Typical Promenade Section** 





#### Promenade Section at East Coast Memorial



HUNTER ROBERTS

Pier A Tie-In

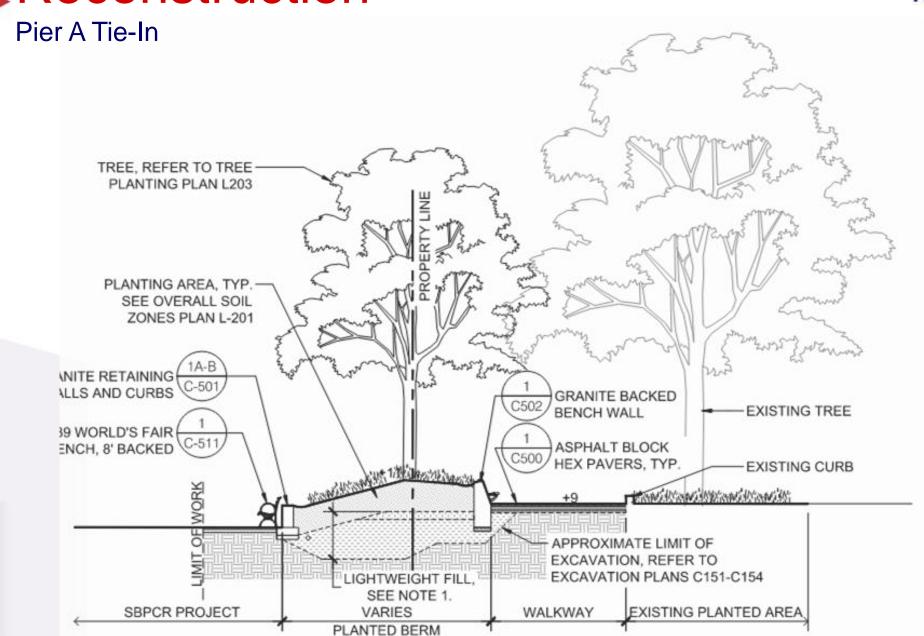


Pier A Tie-In



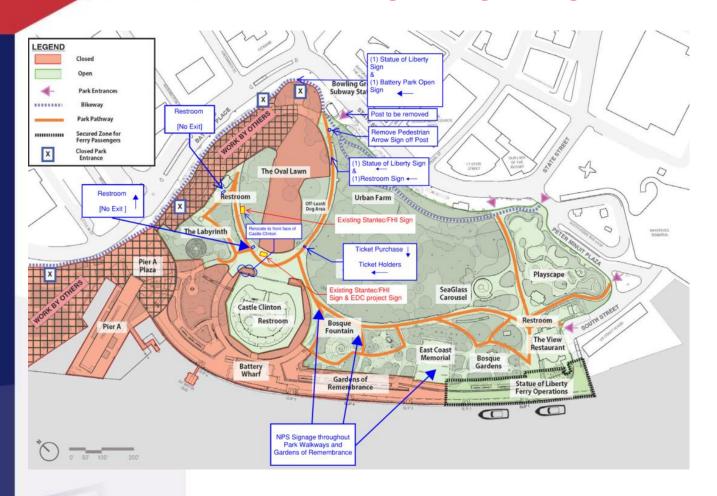






# Way Finding Signage









# Additional Signage





#### Communications





Stakeholder Walkthrough Feb 2, 2024

#### **Construction Community Liaison**

Karp Strategies: Lily Zaballos

Phone: (347) 201-1596

Email: info@batterycoastalresilience.com

Website: <a href="https://www.nyc.gov/site/lmcr/progress/battery-coastal-resilience">https://www.nyc.gov/site/lmcr/progress/battery-coastal-resilience</a>

#### **Lower Manhattan Coastal Resiliency Battery Coastal Resilience**

Construction Notification | Date Issued: 01/09/2024

The Battery Coastal Resilience Project will rebuild and elevate the Battery wharf to reduce risk from future tidal flooding and low level coastal storms, while maintaining the character and uses of the promenade and the rest of the park. The Battery Coastal Resilience Project is one of several projects, which together are known as the Lower Manhattan Coastal Resiliency (LMCR) Project.

- · Reconstruct the deteriorating whart
- Protect The Battery from rising seas
- Preserve and enhance park character and gardens
- . Design for universal accessibility to create a welcoming and accessible esplanade
- Protect the park's historical and cultural resources

and adjacent areas, and Phase 2 will reconstruct the eastern portion of the wharf and adjace

Phase 1-2024-2025 Phase 2 - 2025 - 2026

#### Summary of Upcoming Work

. Set up of construction fencing for Phase 1 construction zone. Fence will be in place duration of the Phase 1 of The LMCR - Battery Coastal Resilience Project.

01/15/2024 (-3 week duration)

Please contact info@batterycoastalresilience.com or Lily Zaballos at 347-201-1596 with questions or o



#### **Lower Manhattan Coastal Resiliency Battery Coastal Resilience**

Construction Notification | Date Issued: 01/09/2024

#### Map of Open and Closed Park Areas and Access Points



#### Public Access to Park

#### Features that remain

- Playscape SeaGlass Carouse
- Battery Woodland
- Urban Farm
- Bosque Foundatai
- Statue of Liberty Fern
- Portions of the Oval Law

#### Battery Wharf

- Gardens of Rememberance
- Portions of the Oval Lawr Emma Lazarus Memorial Plag
- Admiral George Dewey Memoria American Merchant Mariners
  - Netherlands Memorial Flagnole

  - Peter Caesar Alberti Marke
  - River That Flows Two Ways









