



79th Street Boat Basin

Located at West 79th Street and the Hudson River
in the Borough of Manhattan

Manhattan Community Board 7
Parks & Environment Committee
December 16, 2019

Total Budget: \$89.2m (\$60.9m Mayoral / \$28.3m FEMA)
Construction Budget: \$62.0m

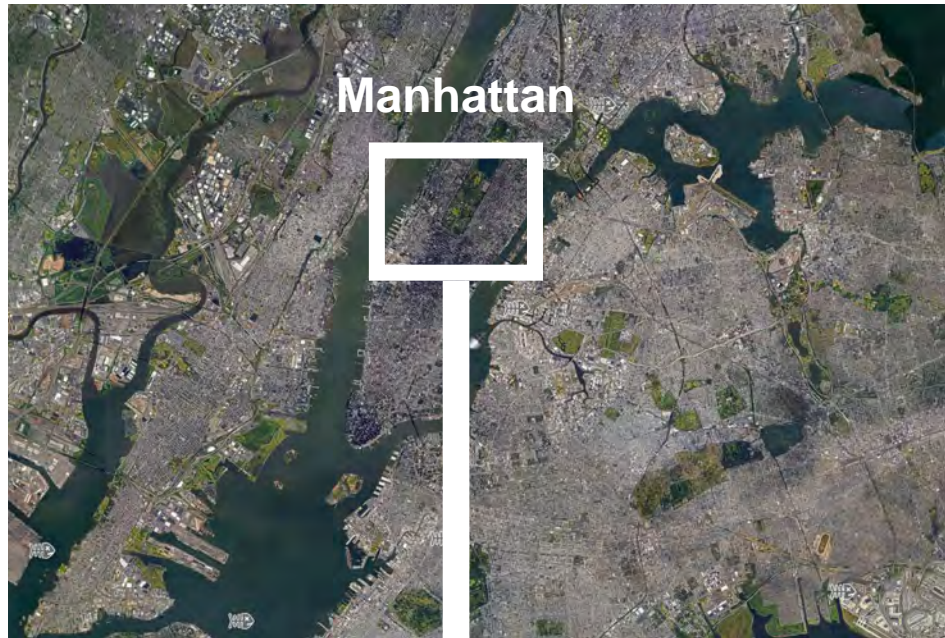
Project Size: 15.00 ac (All Waterside of Existing Bulkhead)

Parks

Goals

- Reconstruct the storm damaged marina to meet current climate resiliency design guidelines
- Enhance navigability of the basin via increased water depths and restored debris/ice protection
- Deliver utilities, accessibility, safety and security that comply with modern codes and standards
- Expand the number of boating berths to address the 780+ person, 14-year waiting list
- Upgrade the Dockhouse to comply with full expanded facility program





Manhattan

City

2 MI



Upper West Side

Neighborhood

1000 FT



Site

Site

200 FT



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79th Street Boat Basin | Project Location

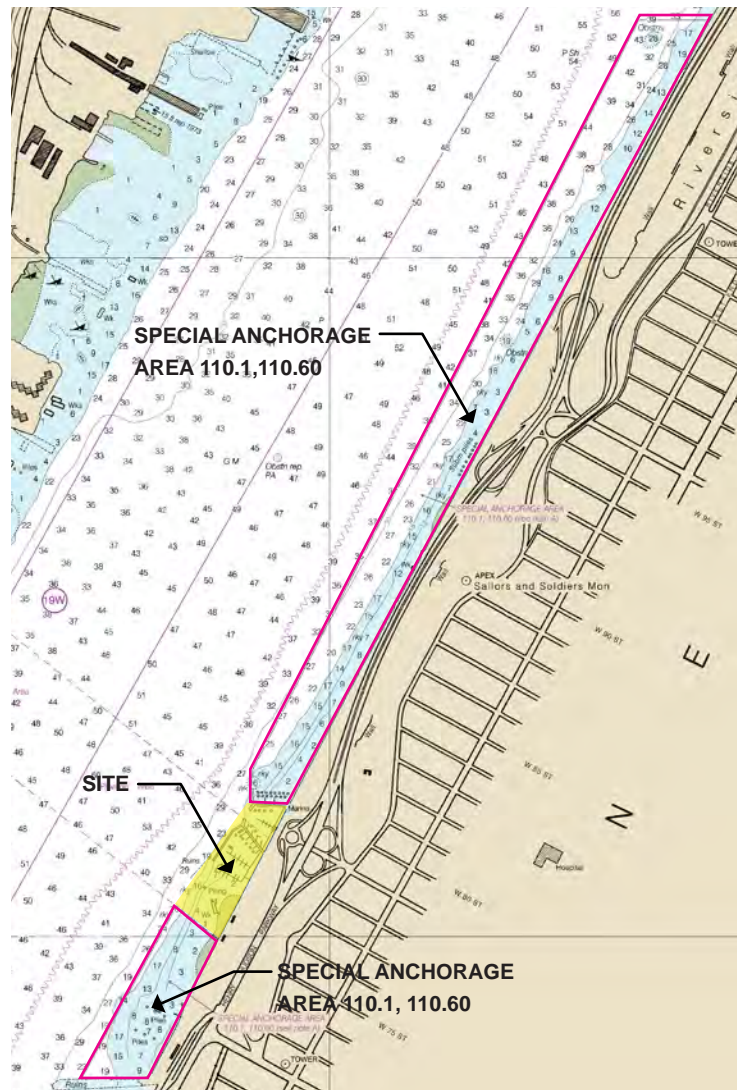




Mooring Area

1500 FT

NYCDPR dedicated mooring area (105.6 acres) denoted as “Special Anchorage Area” in the Federal Register Vol. 78, No. 161, Section 110.60



NOAA Chart 12341



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79th Street Boat Basin | Project Location with Mooring Area





Flood Hazard Zones

2015 Preliminary 100-year Floodplain

1% Annual Chance Floodplain (100 Year Floodplain) The area that has a 1% chance of flooding in any given year.

2050s Projected 100-year Floodplain

The potential areas that could be impacted by the 100-Year flood in the 2050s based on projections of the high-estimate 90th percentile sea level rise scenario (NYC Panel on Climate Change (NPCC) 2015 data).



FEMA FIRM Map

Preliminary 2013 - FEMA FIRM Map:
3604970086G
Zone VE (EL 15)
Moderate wave action

2007 - FEMA FIRM Map: 3604970086F
Zone AE (EL 10)
Moderate wave action (not indicated)



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Manhattan Community Board 7 79th Street Boat Basin | Flood Risk





Land Use Categories

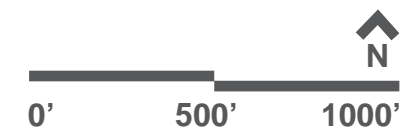
- 1 And 2 Family Residential
- Multi-Family Residential
- Mixed Use
- Open Space And Outdoor Recreation
- Commercial
- Institutional
- Industrial
- Parking
- Transportation / Utilities



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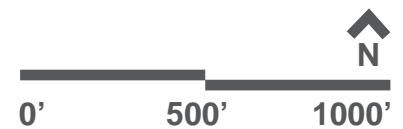


Manhattan Community Board 7 79th Street Boat Basin | Surrounding Land Use





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79th Street Boat Basin | Neighborhood Context



1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020

Approx. 1936

Approx. 1968

Approx. 2006



Original Construction



Southern Expansion



Current Configuration



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79th Street Boat Basin | Historical Context



1 - View from C-Dock Pier Looking Northeast



2 - View from C-Dock Looking South

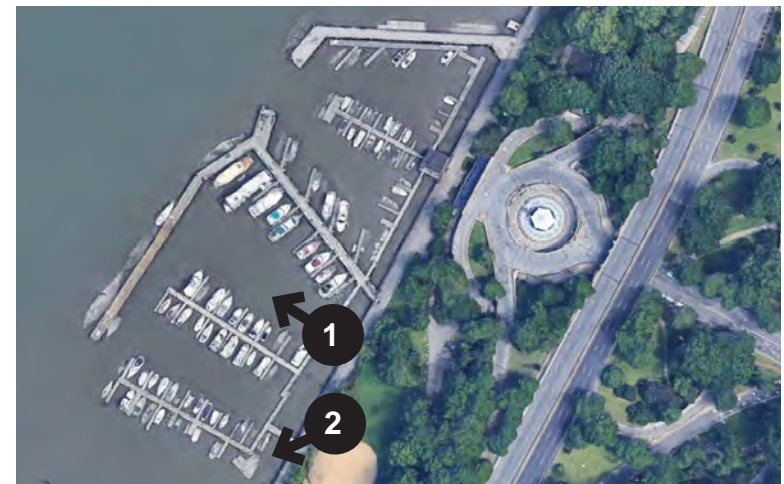




1 - View Looking West at Wave Screen



2 - View from Promenade Looking Southwest





View from Dockhouse Looking South at C-Dock at Low Tide



View from E-Dock Looking North at D-Dock Ice Damage



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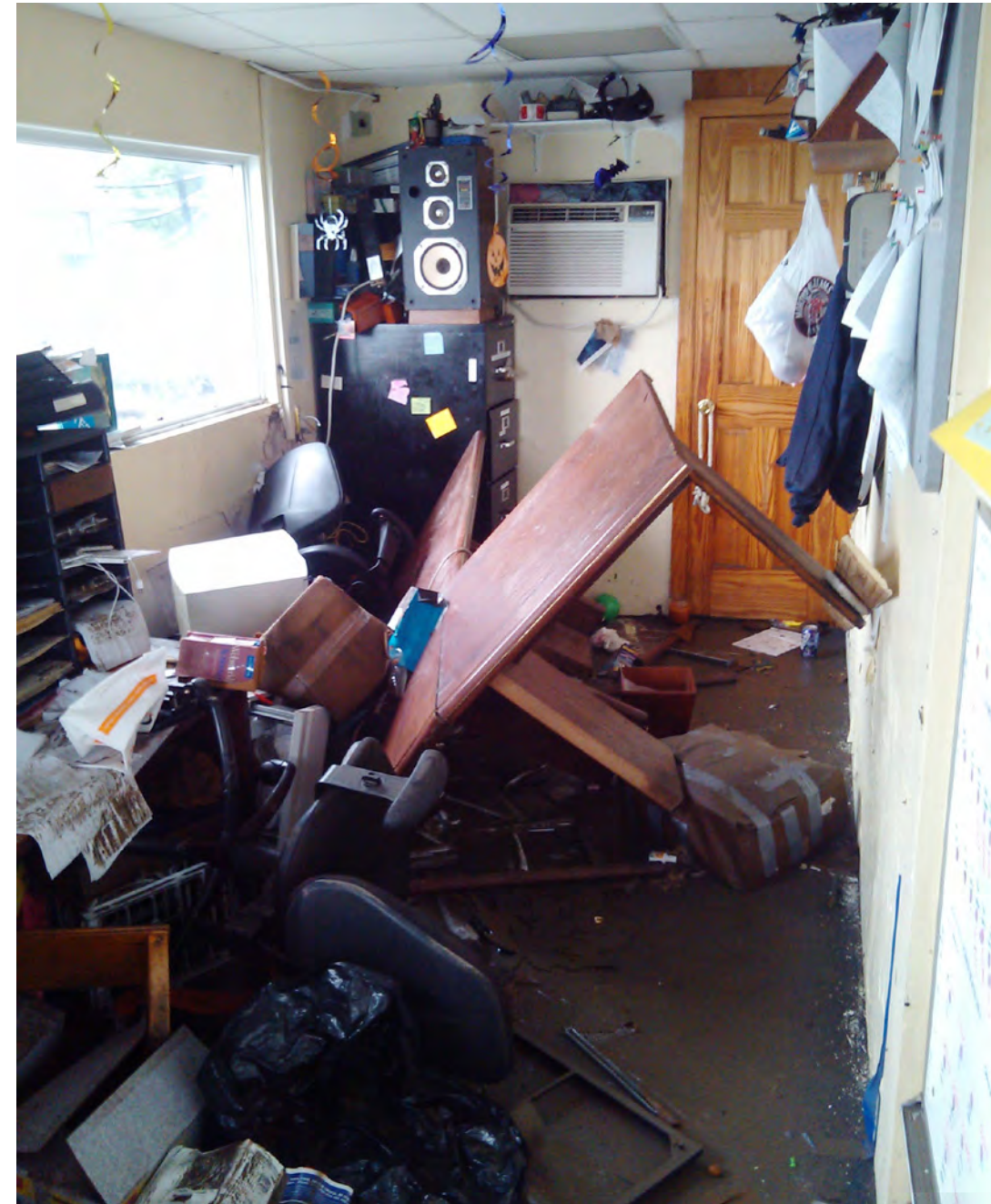


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79th Street Boat Basin | Low Tide & Ice Damage



Dock & Gangway Damage



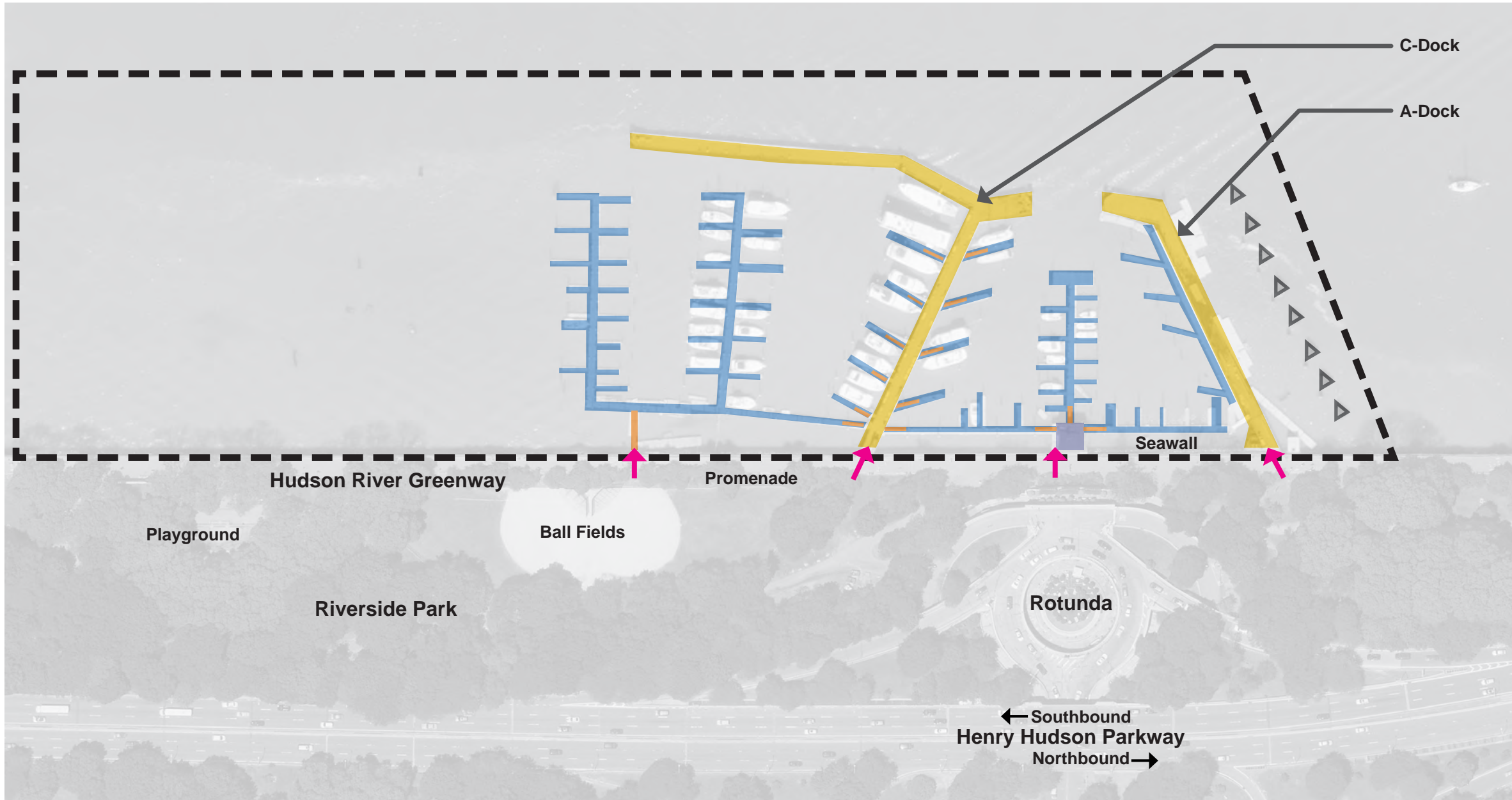
Dockhouse Office After Flood











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79th Street Boat Basin | Hurricane Sandy Damage



Legend

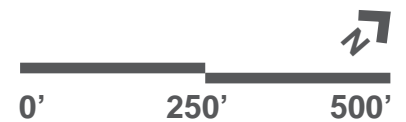
-  Project Limit
-  Pedestrian Entrance
-  Fixed Pier
-  Floating Docks
-  Gangway
-  Dockhouse
-  Existing Icebreaker
-  Vehicular Traffic

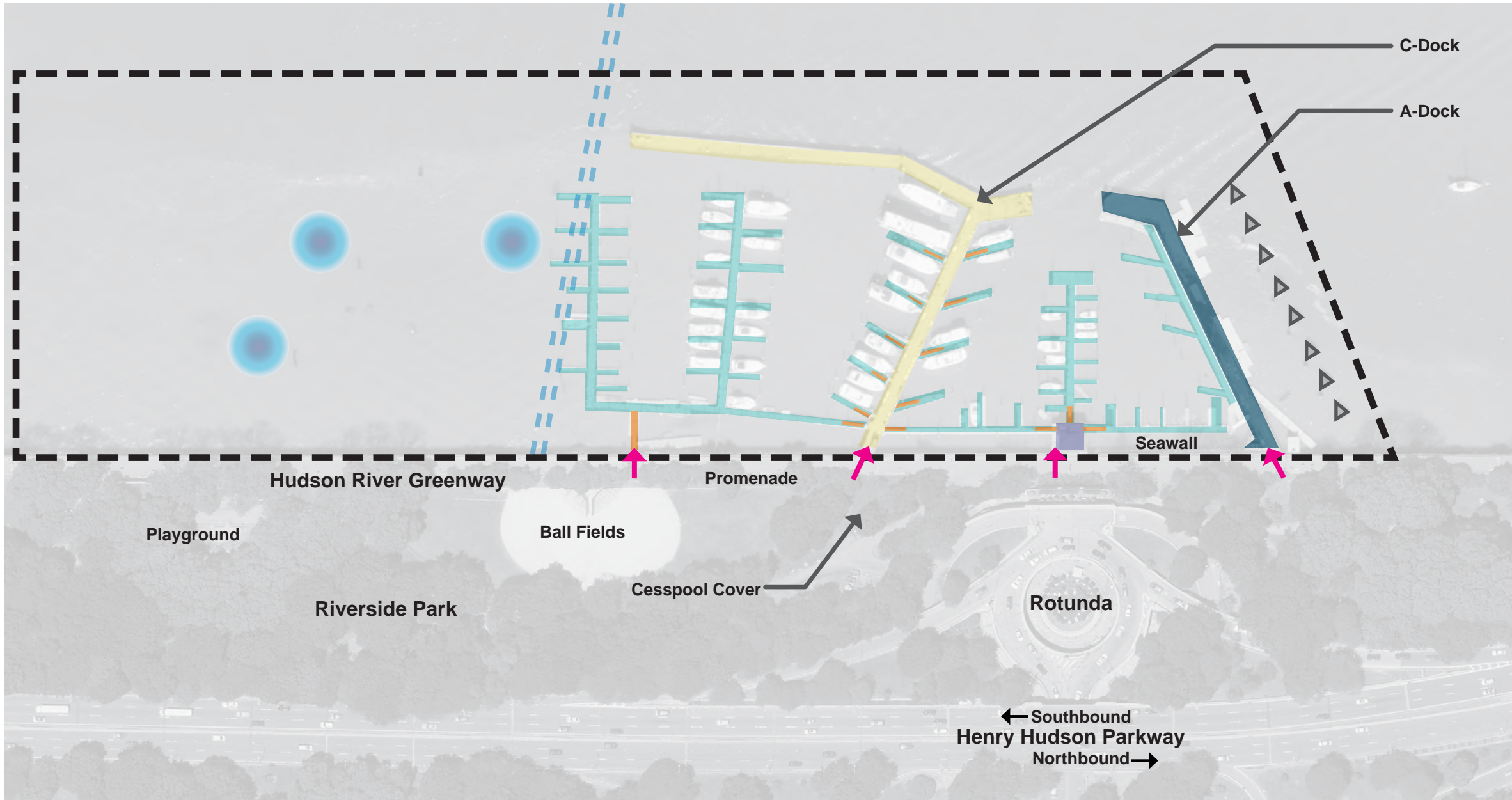


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Manhattan Community Board 7 79th Street Boat Basin | Existing Layout



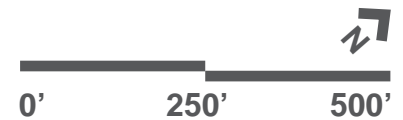


Legend

- Project Limit
- Pedestrian Entrance
- Damaged Fixed Pier
- Damaged Floating Docks
- Rebuilt Fixed Pier (2016)
- Damaged Gangway
- Damaged Dockhouse
- Debris Field
- Existing Icebreaker
- Existing Gas Pipeline
- Vehicular Traffic



Manhattan Community Board 7 79th Street Boat Basin | Site Analysis





1 - View from Café Looking West

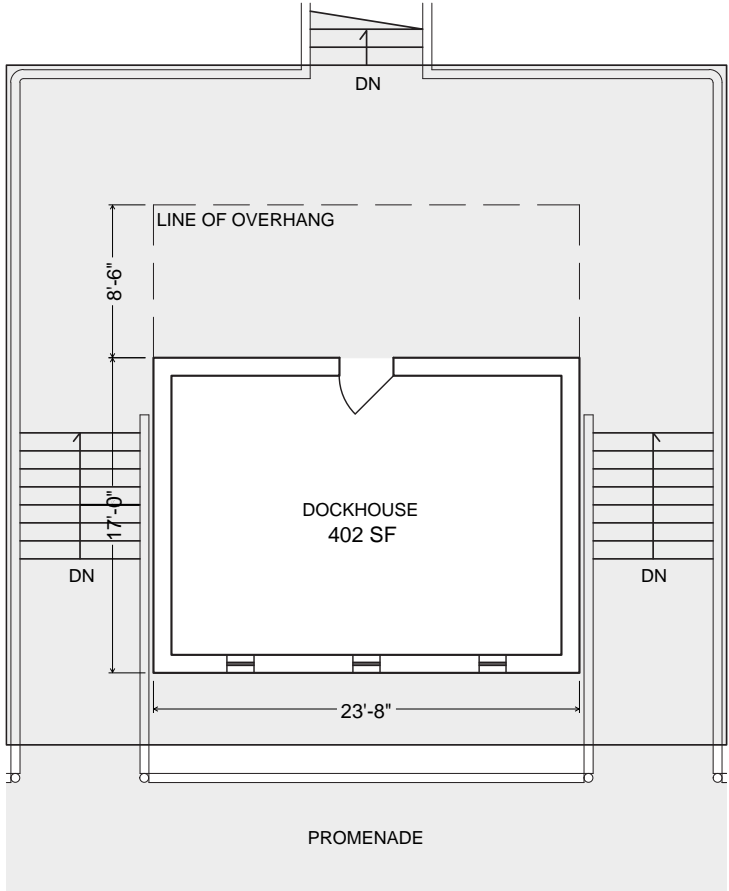


2 - View from Floating Dock Looking North

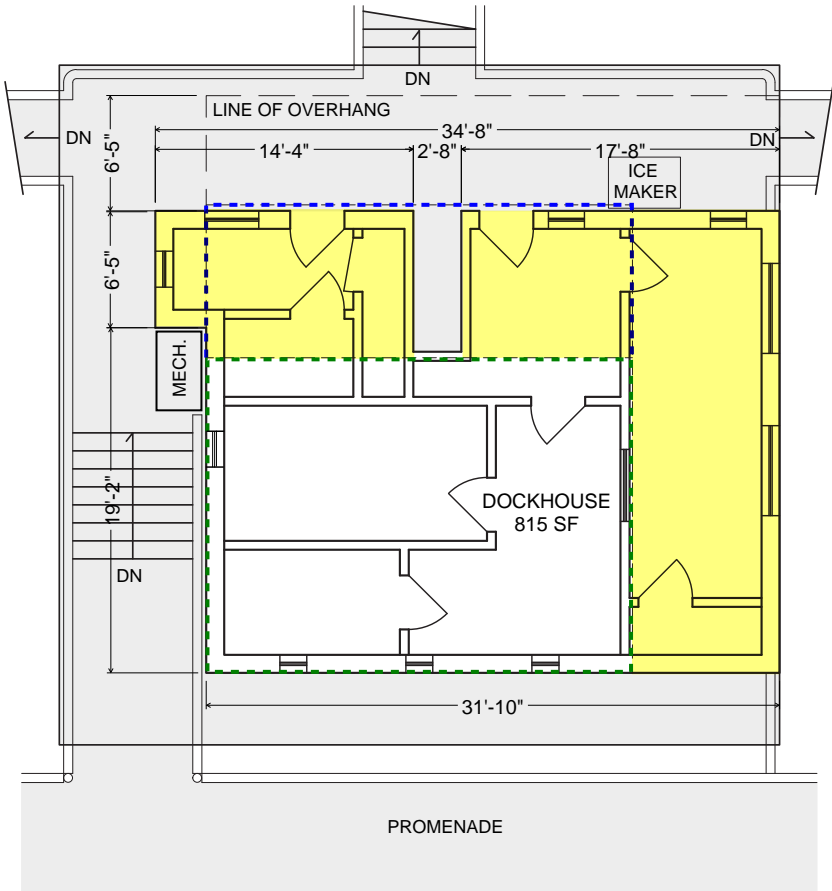


Legend

- 2003 Additions - 413 SF
- Outline of Original Overhang
- Outline of Original Dockhouse



Plan - Original 1937



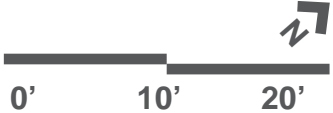
Plan - Existing Conditions



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79th Street Boat Basin | Dockhouse History



Stakeholder Outreach:

- 79th Street Boat Basin Boaters
- Riverside Park Conservancy
- Community Board 7 Chair Mark Diller
- Borough President Gale Brewer
- Council Member Helen Rosenthal
- Assembly Member Linda Rosenthal
- State Senator Robert Jackson
- Congressional District Staff, Rep. Jerry Nadler
- NYPD 20th Precinct
- NYPD Harbor Patrol
- FDNY Marine Unit
- U.S. Coast Guard Waterways Management
- Dedicated Email: boatbasin@parks.nyc.gov



Visioning Session with 79th Street Boat Basin Boaters 10/24/19

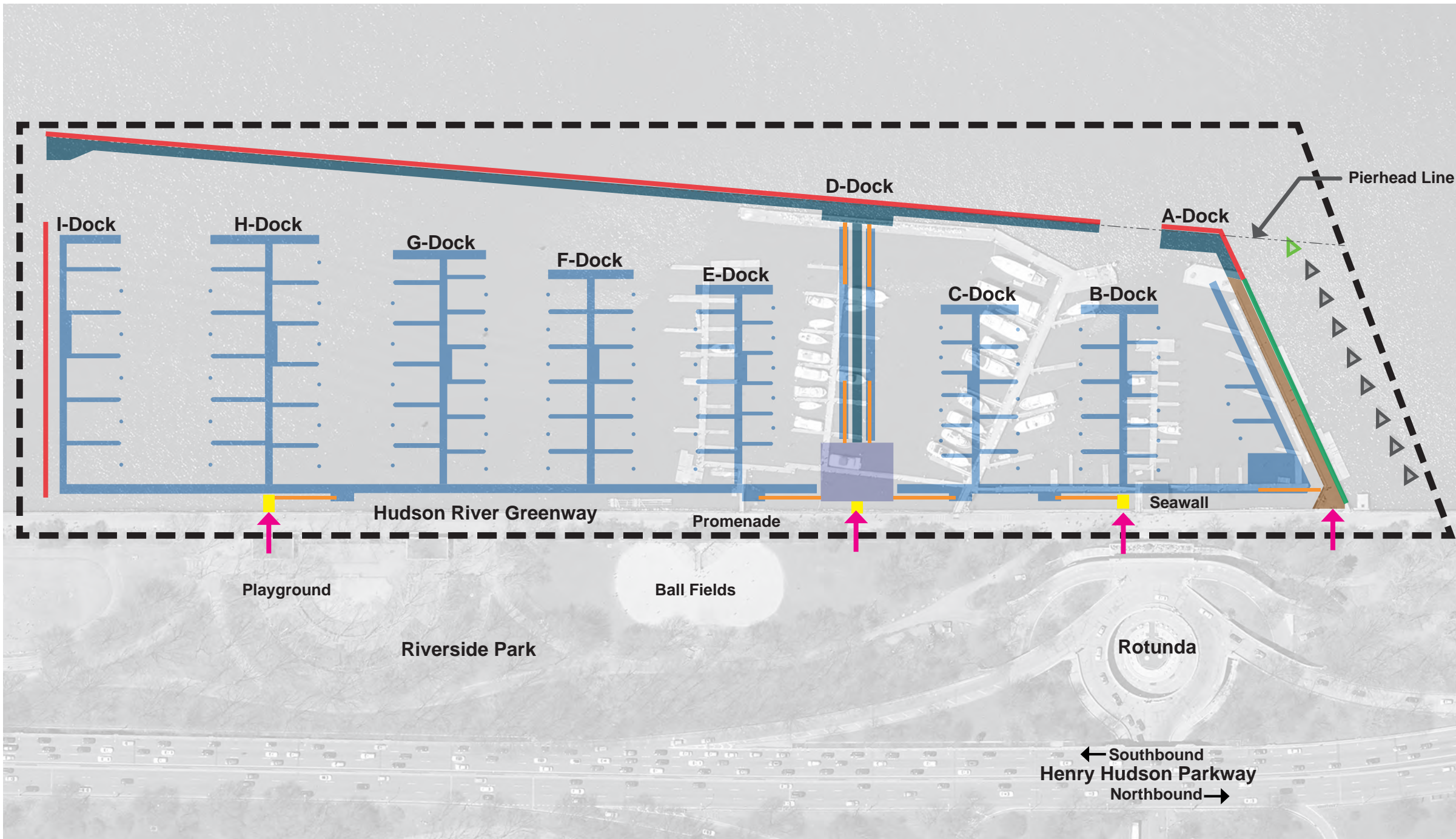


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79th Street Boat Basin | Stakeholder Outreach

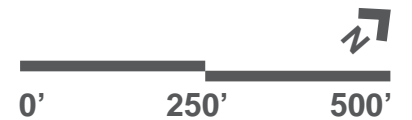


Legend

- Project Limit
- Pedestrian Entrance
- Existing Fixed Pier to Remain
- Existing Wave Screen to Remain
- Fixed Pier
- Wave Screen
- Floating Docks
- Gangway
- Elevated Dockhouse over Fixed Pier
- Access Platform
- New Icebreaker
- Existing Icebreaker
- Vehicular Traffic

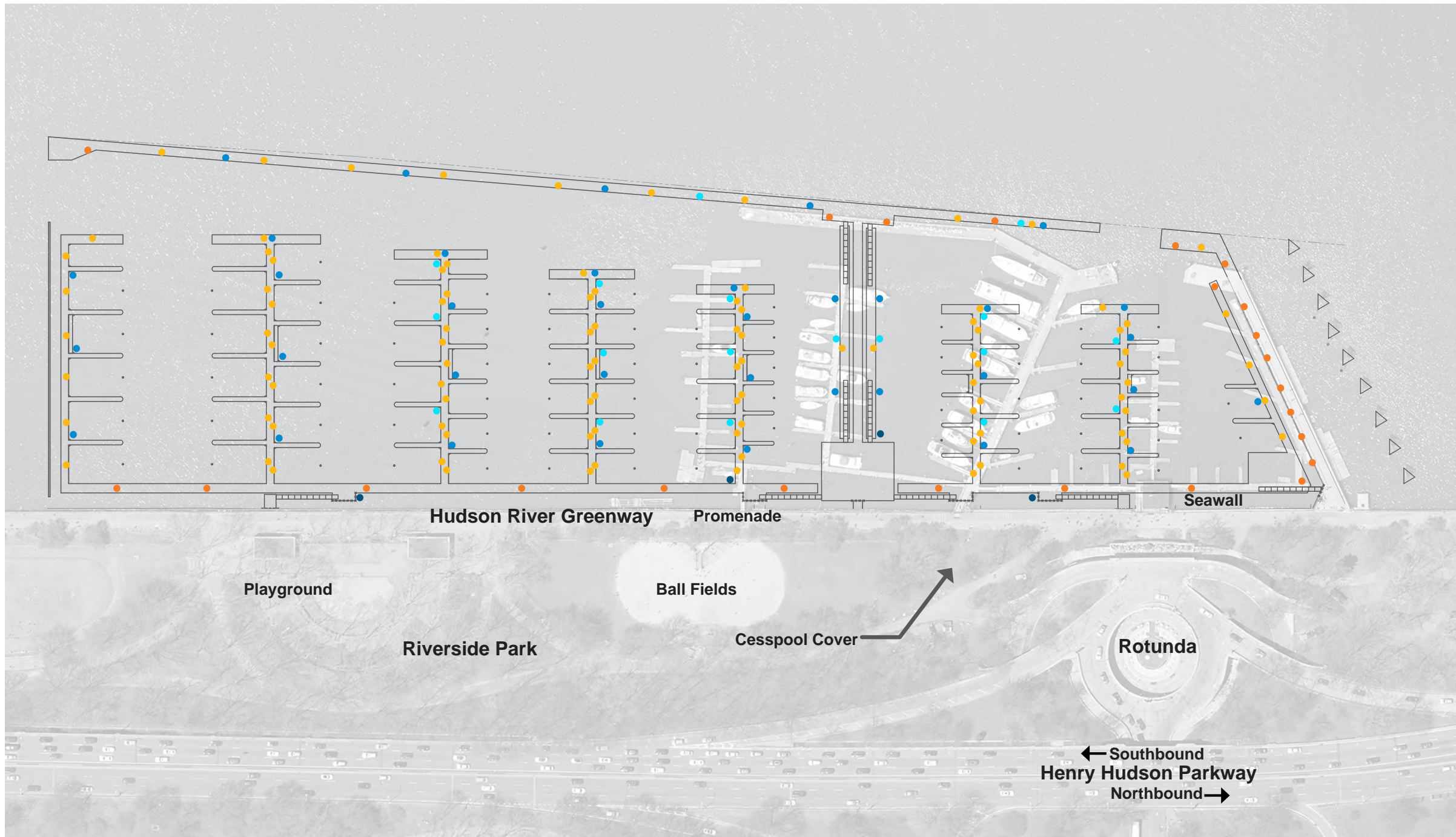


Manhattan Community Board 7 79th Street Boat Basin | Schematic Design Plan

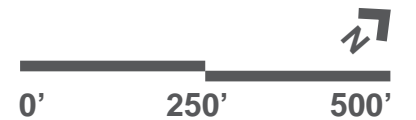


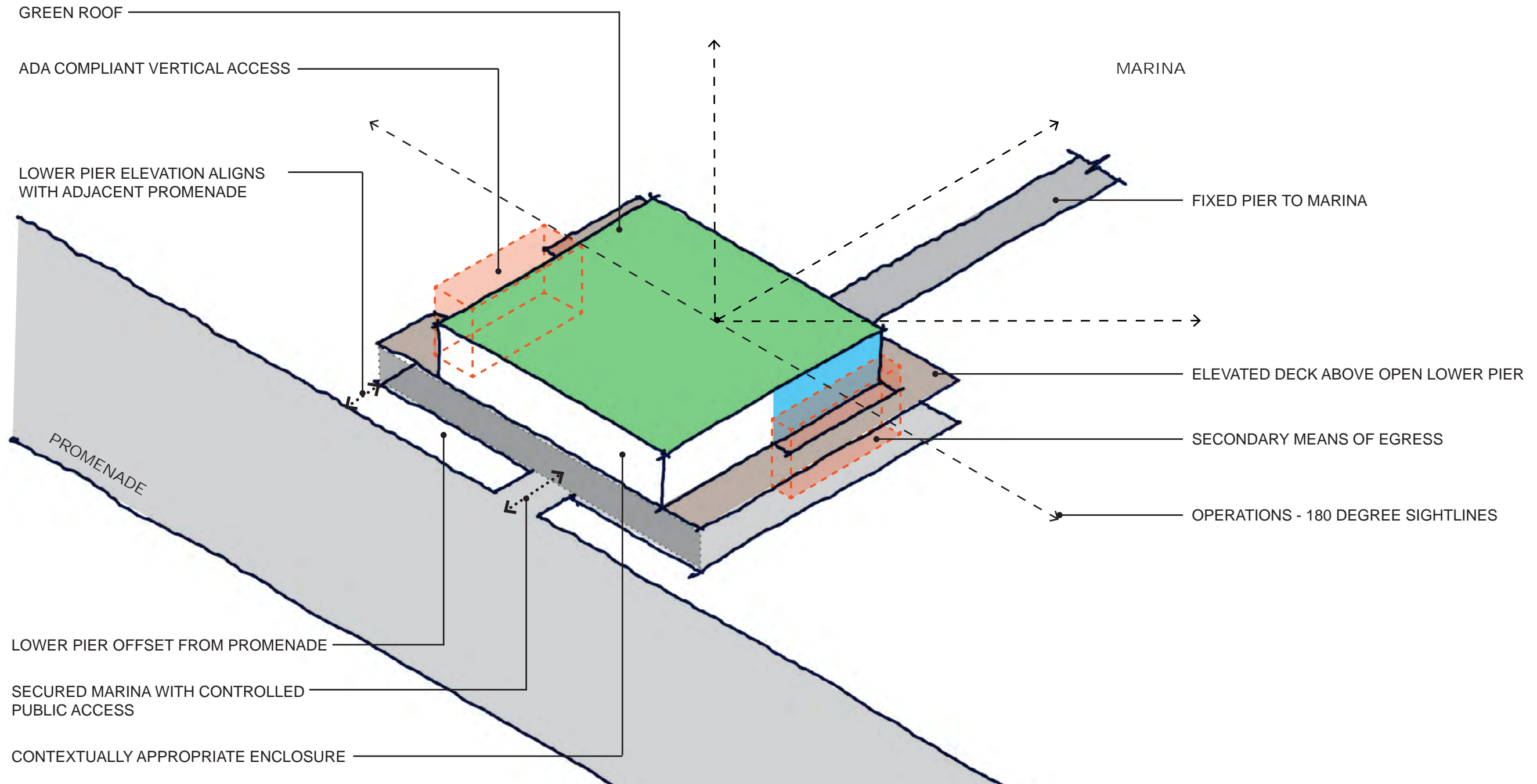
Legend

- Utility Pedestal
- Light Bollard
- Winter Potable Water
- Pump-Out Unit Pump-
- Out Connection



Manhattan Community Board 7 79th Street Boat Basin | Marina Utility Plan



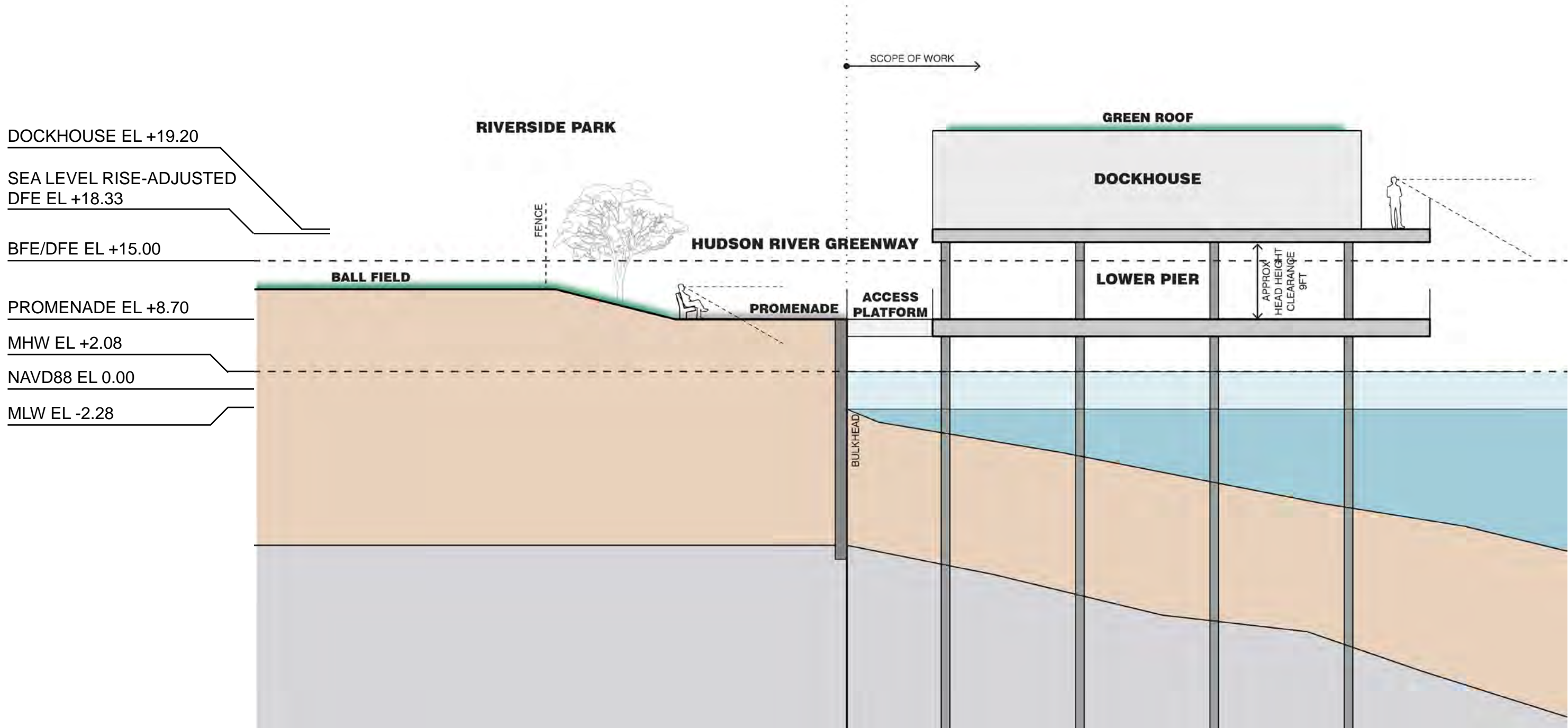


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79th Street Boat Basin | Dockhouse Design Criteria





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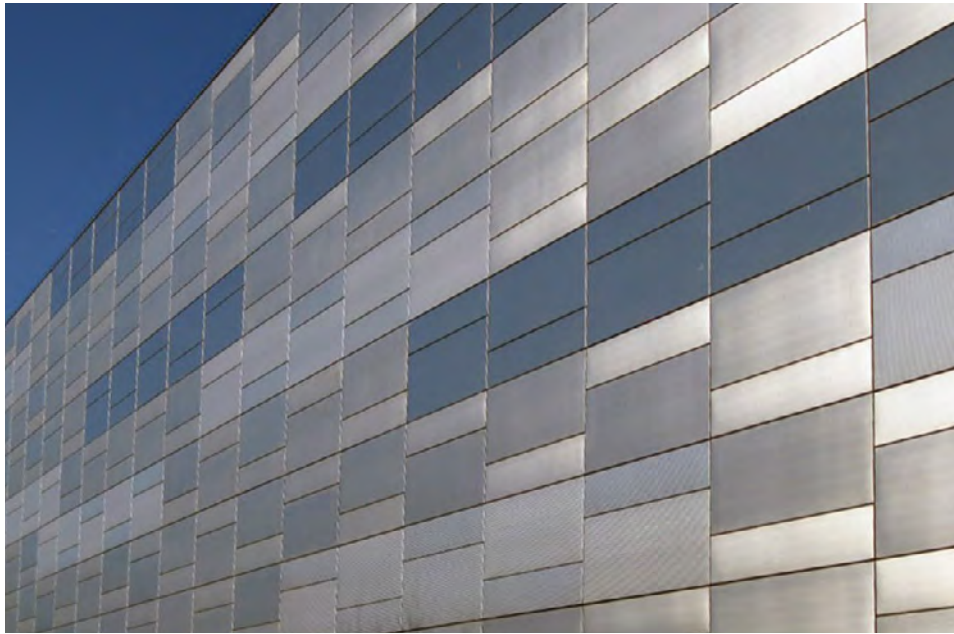


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79th Street Boat Basin | Elevated Dockhouse Section





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79th Street Boat Basin | View Looking Southwest from Path North of Ballfields



Metal Panel



Metal Panel



Green Roof



Recycled Plastic Lumber



Reclaimed Lumber



Metal Panel & Reclaimed Lumber



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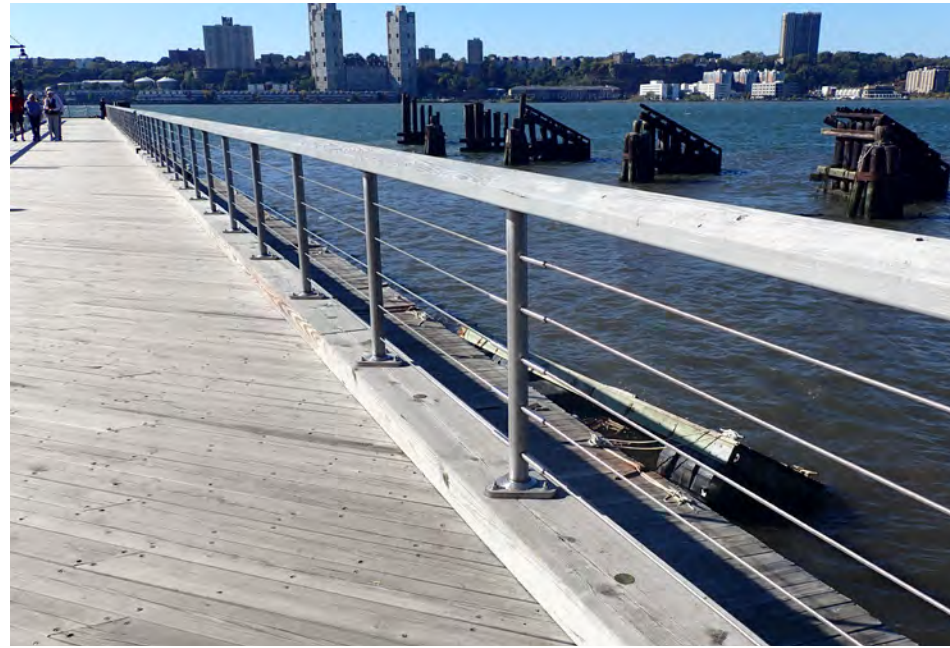


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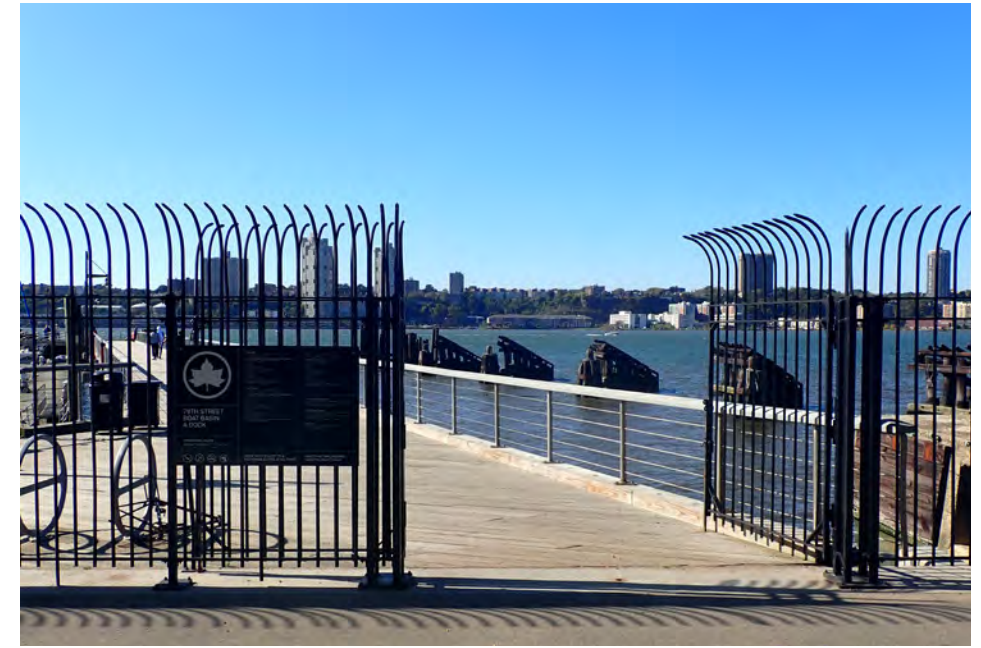
79th Street Boat Basin | Proposed Dockhouse Palette (Precedents)



Promenade Searail



Marina Searail



Steel Picket Gate



Utility/Power Pedestals



Dock Boxes



Pumpout Station



Pier Lighting



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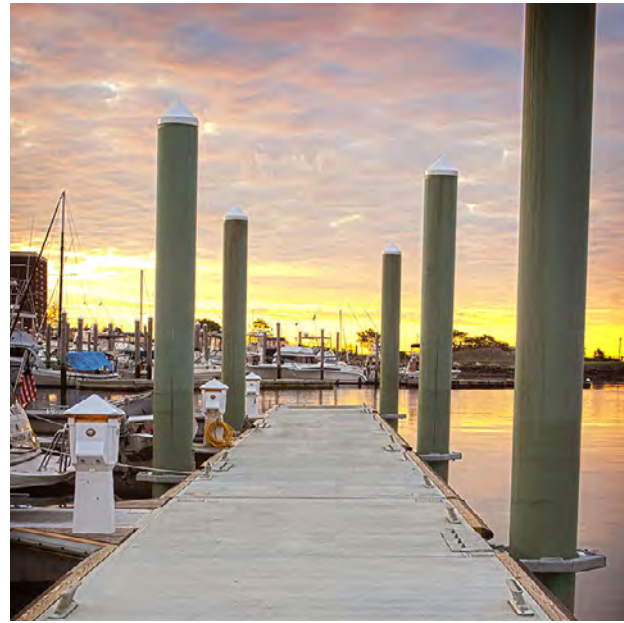


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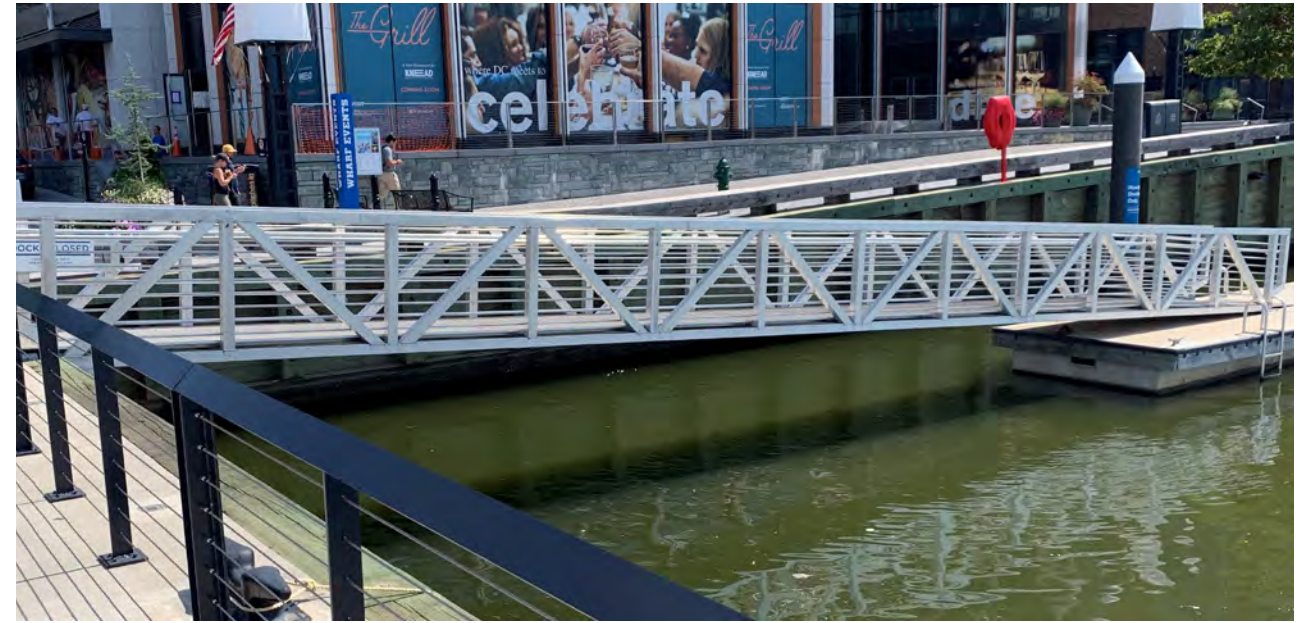
79th Street Boat Basin | Proposed Searails/Gates & Site Amenities (Precedents)



Concrete Floating Docks



Floating Dock Pile Guides



Aluminum Gangway



Steel Piles & Concrete Pile Caps



Timber Wave Screen



Timber Deck



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m&n engineering, p.c.

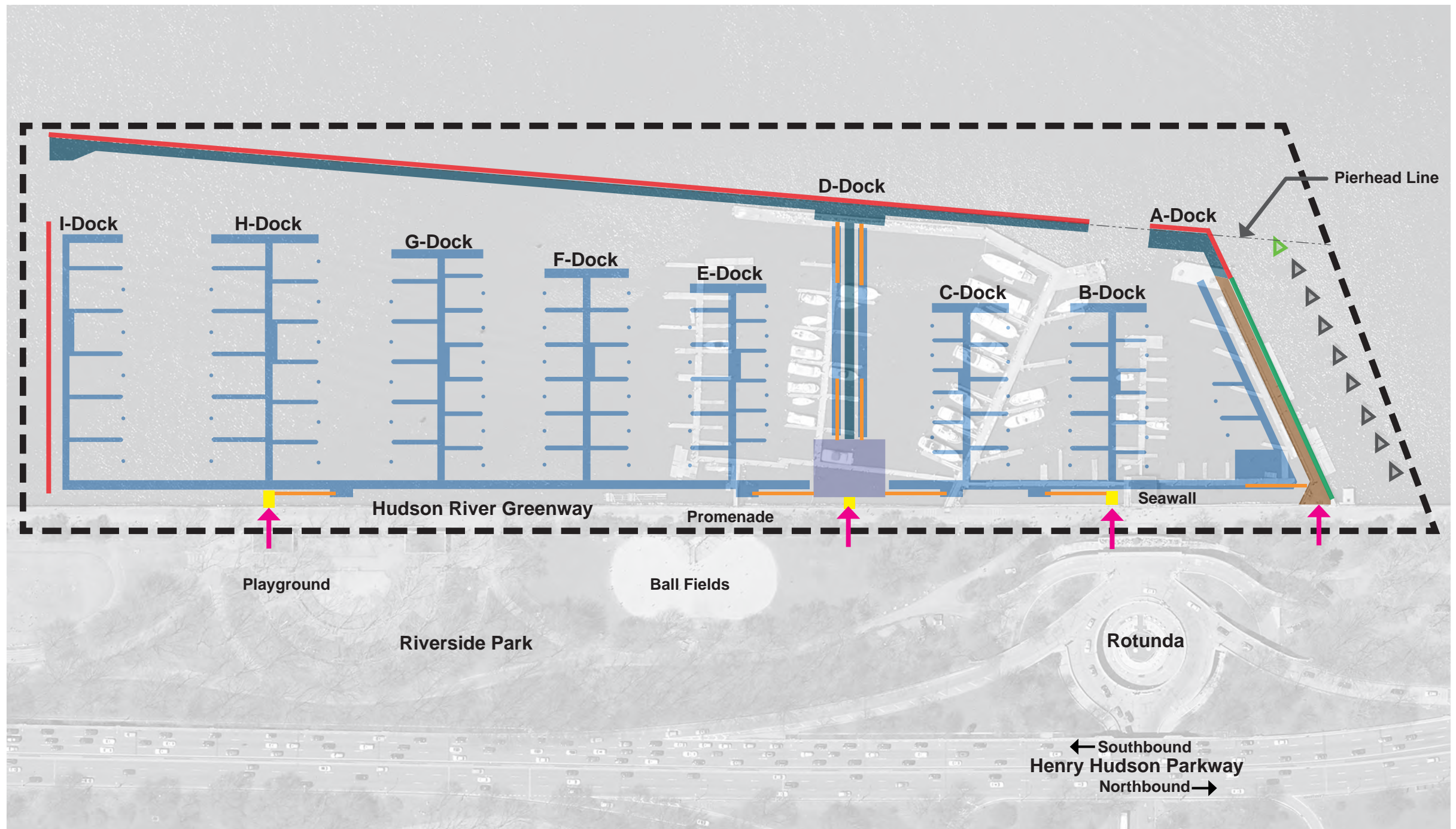
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79th Street Boat Basin | Proposed Floating Docks & Fixed Pier (Precedents)

Estimated Project Schedule

Phase	End Date
Schematic Design (Conceptual)	April 2020
Preliminary Design (30%)	November 2020
Final Design (100%)	June 2021
Construction Start (To be Determined)	October 2021 or May 2022





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79th Street Boat Basin | Schematic Design Plan

