

PUBLIC NOTICE

US Army Corps of Engineers New York District Jacob K. Javits Federal Building New York, N.Y. 10278-0090 ATTN: Regulatory Branch

In replying refer to:
Public Notice Number: NAN-2024-00433-EMI
Issue Date:
Expiration Date:

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: Battery Park City Authority

200 Liberty Street, 24th Floor New York, New York 10281

ACTIVITY: Flood Barrier System for Coastal Resiliency

WATERWAY: Hudson River

LOCATION: Battery Park City, Borough of Manhattan, New York County, City of New York,

New York

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING

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AND EMAILED TO Christopher.W.Minck@usace.army.mil TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity. Comments can also be submitted through the USACE Regulatory Request System (RRS) at https://rrs.usace.army.mil/rrs/public-notices.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by email is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various lifestages of some EFH-designated species as a result of a temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations is being conducted and will be concluded prior to the final decision.

Based upon a review of the latest published version of the National Register of Historic Places, there are eighteen (18) architectural resources identified within a 400-foot radius of the proposed project, of which three (3) are located within the project area: the Shearwater, South Cove, and the Hudson River Bulkhead. USACE has made the determination that there would be no adverse effect to the historic resources within the permit area. The New York State Historic Preservation Office (NYSHPO) concurred with this determination on December 4, 2024.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C.

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1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

• New York State Department of Environmental Conservation

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. Please send all comments and questions concerning this application to Christopher.W.Minck@usace.army.mil.

In order for us to better serve you, please complete our Customer Service Survey located at http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx.

For more information on New York District Corps of Engineers programs, visit our website at http://www.nan.usace.army.mil.

FOR AND IN BEHALF OF Stephan A. Ryba Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The permit applicant, Battery Park City Authority (BPCA) has requested Department of the Army (DA) authorization to construct a flood barrier system (FBS) along the Hudson River at Battery Park City (BPC) in the Borough of Manhattan, New York County, City of New York, New York. The proposed project is referred to as the North/West Battery Park City Resiliency (NWBPCR) Project.

The proposed project is divided into seven reaches each consisting of a different range of work. The FBS is comprised primarily of passive landside structures (e.g. above-grade concrete walls, below-grade concealed walls, etc.). Where physical constraints preclude landside implementation, in-water structures (e.g. seepage barriers, reconstructed platforms, bridging structures, etc.) are proposed.

The proposed work would involve the following:

Reach 1: State Route 9A Crossing/Tribeca – No USACE Regulated Work

Construction of an upland FBS "tie-back" near Greenwich Street and follows along North Moore Street, south on Route 9A before crossing north of Chambers Street for a total of approximately 1,700 linear feet. There is no in-water work associated with this reach of the project.

Reach 2: North Battery Park City Esplanade

Construction of an approximately 426-foot-long 36-inch diameter o-pile sheet-piling seepage barrier and placement of approximately 379 cubic yards of low permeability clean fill over approximately 0.07 acres (2,958 square feet).

Remove the existing approximately 43-foot-wide by 497-foot-long (approximately 20,267 square feet) overwater platform including the existing piles and replace with a new approximately 49-foot-wide by 562-foot-long (approximately 25,148 square feet) overwater platform supported by ninety-one (91) 36-inch diameter piles filled with approximately 229 cubic yards of concrete. The new platform will also include approximately 556 linear feet of seawall along the seaward side. The seawall will consist of eco-enhancement features. The new overwater platform will increase in size by approximately 0.11 acre (4,688 square feet).

Reach 3: Rockefeller Park - No USACE Regulated Work

Construction of an upland FBS along Rockefeller Park extending west and south along the Park and Connecting to Reach 4 at the South Meadow totaling 1,700 linear feet. There is no in-water work associated with this reach of the project.

Reach 4: Belvedere Plaza

Construction of an approximately 352-foot-long 36-inch diameter o-pile sheet-piling seepage barrier and placement of approximately 1,143 cubic yards of low permeability clean fill over approximately 0.12 acres (5,213 square feet).

Remove and replace an approximately 71-foot-wide by 342-foot-long (approximately 18,251 square feet) section of the existing overwater precast/prestressed deck to accommodate the installation of seventy-nine (79) 36-inch diameter piles filled with approximately 369 cubic yards of concrete used as deep foundation of the new FBS. Once drilled shafts and the footing of the

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FBS are constructed, the deck will be reconstructed at the existing elevation with cast-in-place reinforced concrete slab and backfill to a proposed finished grade varying from approximately EL. 9.5' to EL. 12.0'. The new platform will also include approximately 229 linear feet of seawall along the seaward side. The seawall will consist of eco-enhancement features.

Within this reach, one (1) new 24-inch diameter outfall is proposed.

Reach 5: North Cove

Construction of an approximately 122-foot-long 42-inch diameter o-pile sheet piling seepage barrier and placement of approximately 80 cubic yards of low permeability clean fill over approximately 0.01 acres (226 square feet).

Construction of specialized bridging structures with butterfly valves and aerators that extend across the north and south PATH tunnels to control storm surge during storm events and maintain tidal flow during non-storm events. The south bridging structure will be approximately 58-footwide by 65.5-foot-long (approximately 3,746 square feet) and the north bridging structure will be 58-foot-wide by 62.5-foot-long (approximately 3,630 square feet). To install the bridging structures, approximately 3,681 cubic yards of material will be dredged from an approximately 26,707 square foot area to a depth of approximately -15 feet NAVD88 for the North PATH tunnel and -17.5 feet NAVD88 for the South PATH Tunnel The existing approximately 74.5-foot-wide by 130-foot-long (approximately 6,566 square feet) platform above the PATH tunnels will be removed and replaced in-place after installation of north and south bridging structures. To accommodate the installation of FBS wall, eight (8) 13.375-inch micropiles filled with approximately 12 cubic yards of concrete are to be installed. These micropiles are used as a deep foundation for the proposed FBS.

Within this reach, two (2) 18-inch diameter outfalls are proposed to be replaced with four (4) new outfalls including three (3) 12-inch diameter outfalls and one (1) 15-inch diameter outfall.

Reach 6: South Esplanade

Construction of an approximately 154-foot-long 36-inch diameter o-pile sheet piling seepage barrier and placement of approximately 1,504 cubic yards of low permeability clean fill over approximately 0.08 acres (3,578 square feet).

Remove and replace an approximately 67-foot-wide by 137-foot-long (approximately 7,159 square feet) section of the overwater precast/prestressed deck to accommodate the installation of thirty-six (36) 36-inch diameter piles filled with approximately 269 cubic yards of concrete used as deep foundation of the new FBS. Once drilled shafts and the footing of the FBS are constructed, the deck will be reconstructed at the existing elevation with cast-in-place reinforced concrete slab, and backfill to a proposed finished grade varying from approximately EL. 9.5' to EL. 12.0'. The new platform will also include approximately 138 linear feet of seawall along the seaward side. The seawall will consist of eco-enhancement features. Select existing piles will have precast eco-enhancement panels or casings installed onto them.

Reach 7: South Cove

Remove an approximately 14-foot-wide by 20-foot-long (approximately 277.5 square feet, 0.006 acre) section of the existing overwater precast/prestressed deck to accommodate the installation of four (4) of 13.375-inch diameter micropiles used as deep foundation of the new FBS. Once

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micropiles and the footing of the FBS are constructed, the deck will be reconstructed at the existing elevation with cast-in-place reinforced concrete slab and backfill to a proposed finished grade at approximately EL. 13.5'.

Select existing piles will have precast eco-enhancement panels or casings installed onto them.

In total, the project will result in the discharge of approximately 8,914.40 cubic yards of fill material over approximately 25,475.8 square feet. Additional overwater coverage as a result of platform reconstruction would be approximately 4,688 square feet.

The applicant has stated that they have avoided, minimized, and mitigated for potential impacts proposed to the maximum extent practicable by minimizing in-water work as practicable given the number of constraints associated with the project location including limitations due to existing infrastructure, buildings, the PATH tunnels, and the existing ferry terminal. The applicant has proposed to utilize a turbidity curtain around construction areas, as practicable to minimize the spread of turbidity in the waterway. Additionally, Best Management Practices will be utilized to minimize impacts to the waterway. For the unavoidable impacts associated with the project, the applicant has proposed to purchase 0.5 mitigation bank credits from the Saw Mill Creek Mitigation Bank in Staten Island, New York.

The stated purpose of this project is coastal storm flood risk reduction within and inland of BPC.

HUSDON RIVER

NORTH / WEST BATTERY PARK CITY RESILIENCY

BATTERY PARK CITY AUTHORITY PROJECT NO. 30084181 **DECEMBER 2024**

90% DESIGN

NOT FOR CONSTRUCTION





IN ASSOCIATION WITH:



BJARKE INGELS GROUP 45 MAIN ST #9. BROOKLYN, NY 11201 T: (347) 549-4141



HAYDUK ENGINEERING 1010 ROUTE 112. SUITE 200 PORT JEFFERSON STATION, NY 11776 T: (631) 476-0600



SCAPE LANDSCAPE ARCHITECTURE 277 BROADWAY NINTH FLOOR NEW YORK, NY 10007 T: (212) 462-2628 www.scapestudio.com



ONE PENN PLAZA, 4TH FLOOR, 250 W 34TH STREET NEW YORK, NY 10119 T: (212) 465-5000



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK

PROJECT LOCATION

> **GENERAL** COVER SHEET

DECEMBER 2024

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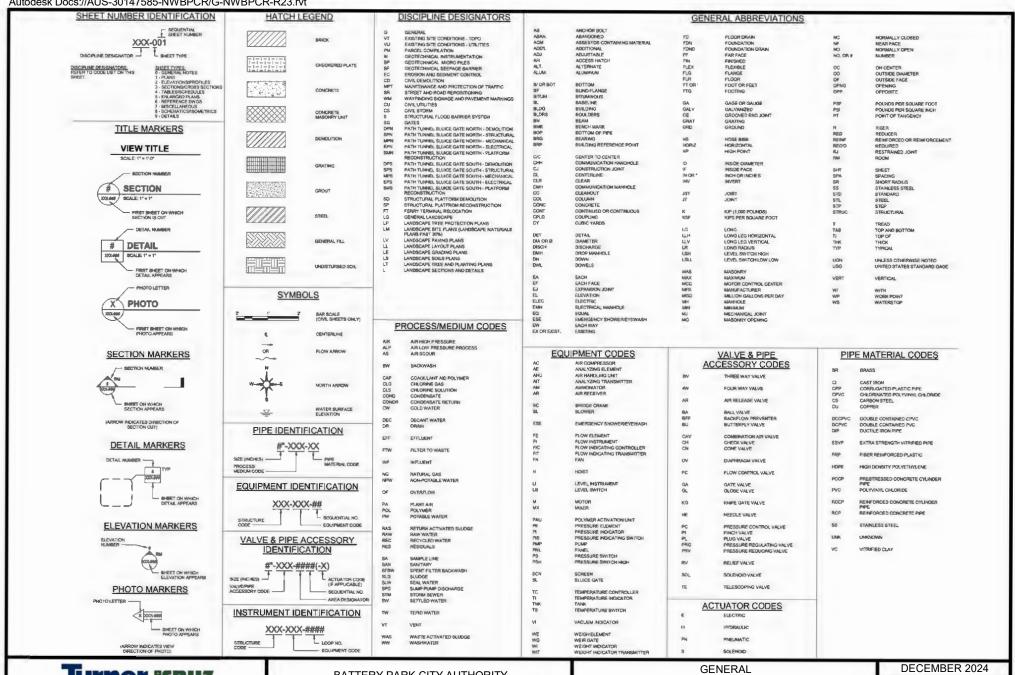
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK GENERAL DRAWING INDEX DECEMBER 2025

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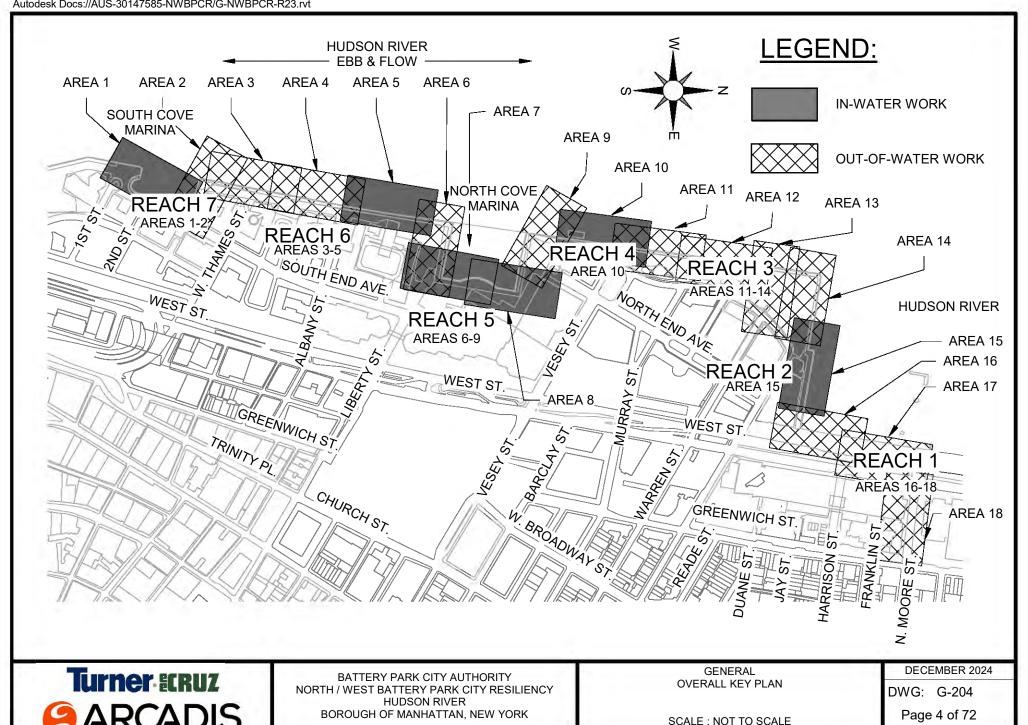
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GENERAL NOTES:

- ELEVATIONS SHOWN ON CONTRACT DRAWINGS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), UNITS ARE IN FEET.
- 2. NORTH ARROWS AND HORIZONTAL COORDINATES SHOWN ON CONTRACT DRAWINGS ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM (NORTH AMERICAN DATUM OF 1983 (NAD83, ZONE LONG ISLAND 3104)). UNITS ARE IN U.S. SURVEY FEFT
- 3. EXISTING UTILITIES SHOWN ON CONTRACT DRAWINGS MAY NOT INCLUDE ALL THE UTILITIES, EITHER OPERATIONAL OR ABANDONED, AND THEY MAY NOT EXIST IN THE EXACT LOCATIONS INDICATED.
- 4. COMPLY WITH THE PROVISIONS OF 16 NYCRR PART 753 (CODE RULE 53), INCLUDING, BUT NOT LIMITED TO, THE PROVISIONS OF SUBPARTS 753-3.1(A) AND (B), WHICH STATES THAT EXCAVATORS SHALL NOTIFY THE NEW YORK CITY ONE CALL CENTER AT 1-800-272-4480 AT LEAST TWO BUT NOT MORE THAN TEN WORKING DAYS, NOT INCLUDING THE DATE OF THE CALL, BEFORE THE COMMENCEMENT OF EXCAVATION. DESIGN-BUILDER IS ADVISED THAT THE PROVISIONS OF 16 NYCRR PART 753 DO NOT APPLY TO CITY-OWNED UTILITIES. WHICH SHALL BE LOCATED BY DESIGN-BUILDER.
- 5. ALL HYDRANTS, LIGHT POLES, TREES, OR OTHER FIXED OBJECTS THAT ARE TO BE CONSTRUCTED, PLANTED, RESET, OR RELOCATED WITHIN THE CITY RIGHT-OF-WAY AS A RESULT OF THE PROJECT SHALL BE CONSTRUCTED OR PLANTED SO AS TO PROVIDE AT LEAST ONE AND ONE HALF (1 1/2) FOOT CLEAR DISTANCE FROM THE FACE OF THE CURB TO THE FACE OF THE OBJECT.
- 6. AS A RESULT OF CURB RELOCATION AND/OR REPLACEMENT WITHIN THE CONTRACT LIMITS, EXISTING STREET APPURTENANCES PROJECTING ABOVE PAVED SURFACES, SUCH AS HYDRANTS, LAMPPOSTS AND TRAFFIC SIGNAL POLES, AND BUS SHELTERS, WILL HAVE TO BE RELOCATED. NOT WITHSTANDING ANY CONSTRUCTION SEQUENCE AS DEFINED BY THE CONTRACT DOCUMENTS, THE DESIGN-BUILDER SHALL PLAN CONSTRUCTION OPERATIONS TO ENSURE THAT THESE APPURTENANCES ARE CONSTRUCTED OR RELOCATED IN CONJUNCTION WITH THE INSTALLATION OF THE NEW CURB.
 - A. IN THE EVENT THE SIDEWALK IS WIDENED, THE STREET APPURTENANCES SHALL BE MAINTAINED AT THEIR EXISTING LOCATION BEHIND THE EXISTING CURB UNTIL THE NEW SIDEWALK IS CONSTRUCTED.
 - B. IF THE SIDEWALK IS NARROWED, THE STREET APPURTENANCES MUST BE MOVED TO THEIR NEW LOCATIONS BEHIND THE PROPOSED NEW CURB PRIOR TO REMOVAL OF THE EXISTING CURB
 - C. SERVICES MUST BE MAINTAINED BY INSTALLING AND ENERGIZING NEW APPURTENANCES OR BY USING TEMPORARY APPURTENANCES, AS DIRECTED BY THE CONSTRUCTION MANAGER AT NO ADDITIONAL COST TO BPCA.
- 7. ALL EXISTING SEWER HOUSE CONNECTIONS SHALL BE CONTINUOUSLY MAINTAINED DURING ALL STAGES OF CONSTRUCTION. IF ANY HOUSE CONNECTION MUST BE DISCONNECTED FOR CONSTRUCTION PURPOSES, FLOW MUST BE MAINTAINED BY FLUMING OR OTHER SUITABLE MEANS AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN SUICH A MANNER THAT NO BACK-UPS OCCUR. ANY AND ALL EXISTING SEWERS, HOUSE CONNECTIONS OR OTHERS SEWER APPURTENANCES WHICH ARE TO REMAIN, AND WHICH MUST BE DISTURBED FOR CONSTRUCTION PURPOSES, SHALL BE RESTORED TO THEIR PRESENT CONDITION AFTER COMPLETION OF THE WORK.
- 8. THE DESIGN-BUILDER SHALL COORDINATE WITH ALL OTHER PROJECTS WITHIN THE VICINITY OF THE PROJECT AREA OR NEARBY. PROJECTS WITHIN THE VICINITY OF THE PROJECT AREA INCLUDE BUT ARE NOT LIMITED TO:
 - A. NYC EDC / NYC DPR BATTERY WHARF PROJECT
 - B. NYC DDC HWPR16M INSTALLATION OF PEDESTRIAN RAMPS AT DESIGNATED LOCATIONS MARINE BASED OPERATIONS
 - C. NYCDOT BATTERY PARK UNDERPASS PROJECT
 - D. NYCDOT FLOOD PROTECTION OF BATTERY PARK AND WEST STREET TUNNELS
- 9. FLOATING PLANT
 - A. NOTIFICATION OF THE COAST GUARD: PRIOR TO COMMENCEMENT OF WORK ON THIS CONTRACT, NOTIFY US COAST GUARD OF INTENDED MARINE BASED OPERATIONS AND REQUEST POSTING OF A NOTICE IN LOCAL NOTICE TO MARINERS. ALLOW SUFFICIENT TIME FOR PUBLICATION IN THE NOTICE TO MARINERS AT LEAST ONE WEEK PRIOR TO MOBILIZING MARINE BASED EQUIPMENT ON SITE.
 - B. NO UNREASONABLE OR UNNECESSARY INTERFERENCE TO MARINE NAVIGATION SHALL BE PERMITTED. PRIOR TO MOBILIZING EQUIPMENT FOR ACTIVITIES POTENTIALLY AFFECTING MARINE NAVIGATION, PERFORM ALL NECESSARY COORDINATION AND OBTAIN ANY NECESSARY APPROVALS FROM THE US COAST GUARD AND OTHER AUTHORITIES HAVING JURISDICTION.
 - C. MARINE VESSELS SHALL NOT BE SECURED TO EXISTING RELIEVING PLATFORMS OR OTHER EXISTING STRUCTURES AT ANY TIME.
- 10. PARKING METERS AND MUNI-METERS
 - A. NOTIFY NYCDOT 48 HOURS PRIOR TO THE START OF WORK TO HAVE PARKING METERS AND/OR MUNI-METERS REMOVED. CONTACT MR. JOHN PREMUS, ADMINISTRATIVE TRANSPORTATION COORDINATOR, NYCDOT, DIVISION OF TRAFFIC OPERATIONS, 58-50 57TH ROAD, 2ND FLOOR, MASPETH, NY 11378, PHONE NUMBER (718) 894-1835, FAX NUMBER (718) 894-8397, E-MAIL JPREMUS@DOT.NYC.GOV. PROVIDE THE FOLLOWING INFORMATION TO NYCDOT: (1) PARKING/MUNI METER NUMBERS, (2) LOCATION OF METERS, AND (3) DATE WHEN METERS CAN BE REINSTALLED.
 - B. MUNI METERS SHALL NOT BE REMOVED OR RELOCATED BY THE DESIGN-BUILDER. ANY WORK RELATED TO MUNI METERS MUST BE PERFORMED BY THE NYCDOT, BUREAU OF PARKING. INFORM NYCDOT VIA PHONE AT (718) 894-8327 OR (718) 894-1835
 AND SUBMIT VIA E-MAIL ALL PERTINENT DRAWNINGS, AND PROPOSALS THAT REQUIRE THE REMOVAL/RELOCATION OF REINSTALLATION OF MUNI METERS IN THE PROJECT AREA AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT DATE. IN
 ADDITION, UPON COMPLETION OF THE CONTRACTED WORK, SUBMIT A REQUEST FOR REINSTALLATION OF THE MUNI METERS TO NYCODOT AT THE UNIBER PROVIDED AT LEAST A WEEK PRIOR TO THE END OF CONSTRUCTION.

PROJECT TIDAL DATUMS

(BASED ON NOAA STATION 8518750, THE BATTERY, NY, 1983-2001 TIDAL EPOCH)

DATUM	EL. NAVD88, FT
HIGHEST ASTRONOMICAL TIDE (HAT)+3.65	
MEAN HIGHER HIGH WATER (MHHW)+2.28	
MEAN HIGH WATER (MHW)+1.96	
NAVD88	
MEAN LOW WATER (MLW)2.57	
MEAN LOWER LOW WATER (MLLW)2.77	
LOWEST ASTRONOMICAL TIDE (LAT)4.16	
TIDAL WETLANDS6.00	



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN. NEW YORK GENERAL GENERAL NOTES DECEMBER 2024

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- 11. BIKE RACKS/ BIKE CORRALS / CITI BIKE STATIONS / CITYBENCH
 - A. BIKE RACKS SHALL NOT BE REMOVED OR RELOCATED BY THE DESIGN-BUILDER UNLESS APPROVAL HAS BEEN RECEIVED IN ACCORDANCE WITH THE INSTRUCTIONS SET FORTH HEREIN. ANY WORK RELATED TO BIKE RACKS MUST BE PERFORMED BY NYCDOT, BICYCLE PROGRAM. DESIGN-BUILDER SHALL INFORM NYCDOT VIA PHONE AT (212) 839-7205 OR (212) 839-7240 AND BY E-MAIL AT CITYRACKS@DOT.NYC.GOV. DESIGN-BUILDER SHALL SUBMIT BY E-MAIL ALL PERTINENT DRAWINGS AND PROPOSALS THAT REQUIRE THE REMOVAL/RELOCATION OR RE-INSTALLATION OF BIKE RACKS IN THE PROJECT AREA AT LEAST THREE WEEKS PRIOR TO THE COMMENCEMENT DATE. IN ADDITION, UPON COMPLETION OF THE CONTRACTED WORK, A REQUEST FOR RE-INSTALLATION OF THE BIKE RACKS MUST ALSO BE MADE TO NYCDOT AT THE NUMBER PROVIDED, AT LEAST TWO WEEKS PRIOR TO THE END OF CONSTRUCTION.
 - B. BIKE CORRALS SHALL NOT BE REMOVED OR RELOCATED BY THE DESIGN-BUILDER UNLESS APPROVAL HAS BEEN RECEIVED IN ACCORDANCE WITH THE INSTRUCTIONS SET FORTH HEREIN. ANY WORK RELATED TO BIKE CORRALS MUST BE PERFORMED BY NYCDOT, BICYCLE PROGRAM. DESIGN BUILDER SHALL INFORM NYCDOT VIA PHONE AT (212) 839-7205 OR (212) 839-7211 AND BY E-MAIL AT BIKECORRALS@DOT.NYC.GOV. DESIGN-BUILDER WILL SUBMIT VIA E-MAIL ALL PERTINENT DRAWINGS AND PROPOSALS THAT REQUIRE THE REMOVAL/RELOCATION OR RE-INSTALLATION OF BIKE CORRALS MUST ALSO BE MADE TO NYCDOT AT THE NUMBER PROVIDED, AT LEAST TWO WEEKS PRIOR TO THE EDID OF CONSTRUCTION.
 - C. CITI BIKE STATIONS SHALL NOT BE REMOVED OR RELOCATED BY THE DESIGN-BUILDER UNLESS APPROVAL HAS BEEN RECEIVED IN ACCORDANCE WITH THE INSTRUCTIONS SET FORTH HEREIN. ANY WORK RELATED TO CITI BIKE STATIONS MUST BE PERFORMED BY CITI BIKENYC BICYCLE SHARE. DESIGN-BUILDER SHALL INFORM CITI BIKE VIA PHONE AT (855) 245-3311 AND SIMULTANEOUSLY CALL NYCDOT, BIKE SHARE UNIT AT (212) 839-7235. FOR BOTH, DESIGN-BUILDER MUST SUBMIT VIA E-MAIL ALL PERTINENT DRAWINGS, AND PROPOSALS THAT REQUIRE THE REMOVAL/RELOCATION OR RE-INSTALLATION OF A CITI BIKE STATION IN THE PROJECT AREA, AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT DATE. IN ADDITION, UPON COMPLETION OF THE CONTRACTED WORK, A REQUEST FOR RE-INSTALLATION OF THE CITI BIKE STATION MUST ALSO BE MADE TO CITI BIKE AND NYCDOT AT THE NUMBERS PROVIDED, AT LEAST A WEEK PRIOR TO THE END OF CONSTRUCTION.
 - D. CITY BENCHES SHALL NOT BE REMOVED OR RELOCATED BY THE DESIGN-BUILDER UNLESS APPROVAL HAS BEEN RECEIVED IN ACCORDANCE WITH THE INSTRUCTIONS SET FORTH HEREIN. ANY WORK RELATED TO CITY BENCHES MUST BE PERFORMED BY NYCDOT, CITY BENCH PROGRAM DESIGN-BUILDER SHALL INFORM NYCDOT VIA PHONE AT (2/2) 839-6569 OR (2/2) 839-6569 AND BY EMAIL AT CITYBENCH@DOT.NYC. GOV. DESIGN-BUILDER SHALL SUBMIT BY EMAIL ALL PERTINENT DRAWINGS AND PROPOSALS THAT REQUIRE THE REMOVAL, RELOCATION OR RE-INSTALLATION OF CITY BENCHES IN THE PROJECT AREA, AT LEAST THREE WEEKS PRIOR TO THE COMMENCEMENT DATE. IN ADDITION, UPON COMPLETION OF THE CONSTRUCTED WORK, A REQUEST FOR RE-INSTALLATION OF THE CITY BENCHES MADE TO NYCDOT AT THE NUMBER AND EMAIL PROVIDED, AT LEAST TWO WEEKS PRIOR TO THE END OF CONSTRUCTION.
- FIRE DEPARTMENT COORDINATION
 - A. NOTIFY THE FIRE DEPARTMENT'S BUREAU OF FACILITIES MANAGEMENT, PLANT OPERATIONS ENGINEERING UNIT, TELEPHONE (718) 281-3846 OR 281-3933, AT LEAST ONE (1) MONTH IN ADVANCE OF STARTING CONSTRUCTION AND TO MAKE AN APPOINTMENT TO PICK UP FDNY BASE MAPS AT 316 SGT. BEERS AVENUE, FORT TOTTEN, BAYSIDE, QUEENS 11359.
 - B. ALL EXISTING FIRE DEPARTMENT COMMUNICATION FACILITIES SHALL BE PROTECTED AND PROVISIONS MADE FOR THEIR CONTINUOUS OPERATION DURING CONSTRUCTION. ALL ALARM BOXES AND POSTS MUST REMAIN ACCESSIBLE. IF, DUE TO THE DESIGN-BUILDER'S OPERATION, FIRE ALARM SERVICE IS INADVERTENTLY INTERRUPTED OR FIRE COMMUNICATION SYSTEM EQUIPMENT OR FACILITIES ARE DAMAGED. THE DESIGN-BUILDER SHALL BE HELD RESPONSIBLE AND SHALL REPLACE THEM AT HIS/HER OWN EXPENSE AND IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS. TO REQUEST STREET MARKOUTS OF FIRE COMMUNICATIONS UNDERGROUND FACILITIES, THE DESIGN-BUILDER MUST CONTACT PLANT OPERATIONSENGINEERING AT (718) 281-3846 OR (718) 281-3933 AT LEAST ONE (1) MONTH PRIOR TO COMMENCEMENT OF WORK.
- 13. UTILITY COORDINATION
 - A. CON EDISON, CABLEVISION, TIME WARNER, AT&T, RCN, EMPIRE CITY SUBWAY, AND VERIZON FACILITIES ARE LOCATED WITHIN THE PROJECT. AS A RESULT OF THIS PROJECT, THE DESIGN BUILDER WILL BE REQUIRED TO PROTECT, REMOVE, REPLACE OR RELOCATE SOME OR ALL OF THEIR FACILITIES.
 - B. IF ANY RELOCATION OR DISCONNECTION OF POLICE DEPARTMENT FACILITIES IS REQUIRED, INFORM THE CONSTRUCTION MANAGER WHO WILL CONTACT THE SPECIAL PROJECT UNIT COMMUNICATIONS DIVISION OF THE POLICE DEPARTMENT (212-374-5900).

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE DESIGN-BUILDER SHALL INSTALL TEMPORARY SEDIMENT CONTROL DEVICES AS REQUIRED TO IN ACCORDANCE WITH THE APPROVED FEDERAL, STATE, AND LOCAL PERMITS AND APPLICABLE EROSION AND SEDIMENT CONTROL PLAN, INCLUDING BUT NOT LIMITED TO SILT FENCE, AND HAY OR STRAW BALES. THESE MEASURES WILL BE INSTALLED PRIOR TO A MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

SEWER WORK NOTES

- 1. ABANDONED DRAINAGE STRUCTURES AS SHOWN ON THE CONTRACT DRAWINGS ARE TO BE CUT DOWN TWO (2) FEET BELOW SUBGRADE AND FILLED WITH COMPACTED CLEAN SAND. BASIN CONNECTIONS NOT REQUIRED SHALL BE BULK HEADED AT BOTH ENDS.
- 2. WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE (1) BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTION SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE WITH THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND A SEWER, VERTICALLY OR HORIZONTALLY SHALL BE 12 INCHES.
- 3. FOR SEWER REPLACEMENTS WHERE EXISTING LINES ARE TO BE REPLACED WITH NEW LINES OF THE SAME SIZE AND DIMENSIONS, EXISTING FOUNDATIONS, PILES, CRADLES, PILE CAPS AND OTHER FOUNDATION FEATURES SHALL BE RE-USED UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS.
- 4. FOR TIDE-GATE REPLACEMENTS CALLED OUT ON THE CONTRACT DRAWINGS AS "TO BE REMOVED AND REPLACED", ONLY THE TIDE GATE ITSELF SHALL BE REPLACED WITH A NEW TIDE GATE CONFORMING TO THE LATEST DEP SPECIFICATIONS REGARDINGMATERIALS AND MANUFACTURER INFORMATION. EXISTING TIDE-GATE CONFIGURATIONS SHOULD BE REVIEWED WITH THE ENGINEER TO ENSURE THAT FULL CLOSURE IS PRESENT, WHICH WILL PREVENT WATER LEVELS HIGHER THAN THE TIDE GATE FROM FLOWING OVER THE TOP OF THE TIDE GATE IN A WEIR OR OVERFLOW CONDITION. REMOVAL AND REPLACEMENT, INCLUDING ATTACHMENT OF HINGES AND OTHER FITTINGS SHALL BE COORDINATED WITH THE TIDE GATE MANUFACTURER AND AN INSTALLATION PLAN LISTING ALL MATERIALS, BONDING AGENTS, ANCHOR SYSTEMS AND OTHER APPURTEMANCES SENT TO THE ENGINEER FOR APPROVAL.
- 5. DESIGN-BUILDER TO NOTIFY NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTEWATER TREATMENT (BWT) OPERATIONS PRIOR TO STARTING WORK ON THE REGULATORS OUTFALLS.

WATER MAIN WORK NOTES

- 1. WATER MAINS LAID WITHIN THE INFLUENCE LINE OF SEWER TRENCHES SHALL HAVE RESTRAINED JOINTS.
- 2. WITHIN ONE (1) FOOT OF EXISTING SEWERS, CONNECTIONS, DRAINS AND OTHER UTILITIES, ALL EXCAVATION SHALL BE DONE BY HAND.
- 3. SEWER ELEVATIONS AT WATER MAIN CROSSINGS SHALL BE VERIFIED IN THE FIELD BY THE DESIGN BUILDER PRIOR TO COMMENCEMENT OF THE WORK.
- 4. FOR WATER MAINS CROSSING EXISTING SEWERS, THE MINIMUM CLEARANCE BETWEEN THE TOP OF AN EXISTING SEWER TO THE OUTSIDE BOTTOM OF THE TRUNK MAIN (PIPE WALL THICKNESS TO BE TAKEN INTO CONSIDERATION) SHALL BE 12 INCHES IN ORDER TO MAINTAIN THE PROPER CLEARANCE. THE FOLLOWING ALTERNATIVES SHALL BE CONSIDERED AND APPLIED, AS DIRECTED, BY THE ENGINEER.
 - A. THE USE OF BEVELED CONNECTION IN LIEU OF BENDS SHALL BE INVESTIGATED IF THE DEGREE OF INTERFERENCE IS OF A MINOR NATURE. OTHERWISE, BENDS AND/OR REDUCERS SHALL BE USED.
 - B. THE COVER ON THE PIPE MAY BE REDUCED TO TWO AND ONE HALF (2.5) FEET.
 - 1. IF A 12-INCH MINIMUM CLEARANCE CANNOT BE MAINTAINED, THE WATER MAIN SHALL BE SUPPORTED BY A PIER OF APPROVED DESIGN ON EACH SIDE OF THE SEWER. THE PIPE SHALL THEN BE DESIGNED TO ACT AS A BEAM BETWEEN THESE SUPPORTS. THE CLEARANCE SPACE IS TO BE FILLED WITH LAYERS OF APPROVED MATERIAL TO AVOID EXCESSIVE BEARING PRESSURE ON THE PIPE. IN NO CASE, HOWEVER, SHALL THIS CLEARANCE BE LESS THAN 6 INCHES.



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- C. IF BROKEN STONE BEDDING IS USED FOR WATER MAIN, SAID BEDDING SHALL BE DISCONTINUOUS, IF REQUIRED, OVER THE SEWER WITHIN A DISTANCE OF 12' AWAY EACH SIDE OF THE CROSSING SEWER.
- 5. FOR WATER MAINS INSTALLED PARALLEL TO EXISTING SEWERS, ALL HORIZONTAL CLEARANCE BETWEEN NEW WATER MAIN INSTALLED PARALLEL TO EXISTING SEWER SHALL NOT BE LESS THAN 6 FEET PLUS ONE-HALF SEWER DIAMETER WHERE DEPTH TO BOTTOM OF SEWER CRADLE IS LESS THAN 10 FEET.
 - A. HORIZONTAL CLEARANCE BETWEEN OUTSIDE OF NEW WATER MAINS AND CENTERLINE OF SEWER SHALL NOT BE LESS THAN 6 FEET PLUS ONE-HALF SEWER DIAMETER WHERE DEPTH TO BOTTOM OF SEWER CRADLE IS LESS THAN 1 FEET.
 - B. WHERE DEPTH IS 10 FEET OR MORE TO BOTTOM OF SEWER CRADLE, THE HORIZONTAL CLEARANCE SHALL BE INCREASED BY 1 FOOT FOR EACH ADDITIONAL 5 FEET OF DEPTH OVER THE 10 FEET, OR PORTION THEREOF.
- 6. THE DRAWINGS SHOWING PROPOSED WATER MAINS AND APPURTENANCES TO BE LAID ARE DIAGRAMMATICAL ONLY, WATER MAINS SHALL BE LAID AS SHOWN ON THE DRAWINGS AND/OR AS DIRECTED BY THE ENGINEER. THE EXACT LOCATION AT WHICH THE WATER MAIN SHALL BE LAID AND THE VALVES, HYDRANTS AND OTHER APPURTENANCES ETC. WILL BE DETERMINED BY THE ENGINEER AS THE WORK PROGRESSES. HOWEVER, THE EXACT LOCATION OF THE NEW WATER MAIN SHALL BE IN CONFORMANCE WITH NOTES NUMBERED 528 AND \$2C ON THIS SHEET, REGARDING EXISTING SEWERS.
- 7. PROPOSED ALIGNMENT OF TRUNK MAINS ARE BASED UPON THE BEST SUBSURFACE INFORMATION AVAILABLE. THIS INFORMATION IS NOT HOWEVER, GUARANTEED, AND THE EXACT LOCATION OF THE MAIN MAY BE VARIED FROM THAT SHOWN.
- 8. FROST: THE ATTENTION OF THE DESIGN-BUILDER IS CALLED TO THE FACT THAT WORK MAY BE REQUIRED DURING THE PERIOD FROM DECEMBER 15TH TO MARCH 15TH, THE ENGINEER RESERVES THE RIGHT, HOWEVER, TO DISCONTINUE WORK AT ANY TIME BETWEEN THIS PERIOD IF, IN THEIR OPINION, WEATHER OR FROST CONDITIONS ARE SUCH THAT SATISFACTORY WORK OR BACKFILL CANNOT BE PERFORMED. WATER SUPPLY SHUTDOWNS OF DISTRIBUTION MAINS WILL NOT BE PERMITTED UNLESS THE 9

 AM TEMPERATURE IS AT LEAST 77 DEGREES FAHRENHEIT AND RISING.
- 9. THE DESIGN-BUILDER IS TO USE AN APPROVED SHEETING METHOD DURING THE WATER MAIN CONSTRUCTION. SHOULD THE DESIGN-BUILDER UTILIZE THE TRENCH BOXES OR STEEL PLATE/PANEL SHEETING SYSTEM. APPROVAL IS CONTINGENT UPON THE DESIGN-BUILDER'S SUBMITTAL OF A DETAIL PROCEDURE FOR THE INSTALLATION OF THE SYSTEM. WHICH INCLUDES METHODS FOR THE ACCOMMODATION OF UNDERGROUND UTILITY SERVICES BOTH CITY AND PRIVATELY OWNED.
- 10. THE DESIGN-BUILDER SHALL SUBMIT FOR REVIEW SHEETING AND BRACING DESIGN, PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
- 11. TRUNK MAIN SHUTDOWNS SHALL BE COORDINATED WITH BWSO AS DATE RESTRICTIONS MAY APPLY.
- 12. ALL TRUNK MAIN SHUTDOWNS MUST BE COORDINATED WITH THE NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER AND SEWER OPERATIONS (BWSO) MANHATTAN DISTRIBUTION ENGINEER IN ADVANCE OF SHUTDOWN REQUEST. TRUNK MAIN SHUTDOWNS DEPEND ON A CITYITIES OCCURRING IN THE WATER DISTRIBUTION SYSTEM AT THE TIME OF THE REQUEST. THE DESIGN-BUILDER SHALL COORDINATE A TRUNK MAIN SHUTDOWN MEETING WITH THE BWSO DISTRIBUTION ENGINEER ONE (1) MONTH MINIMUM BEFORE THE REQUEST DATE.



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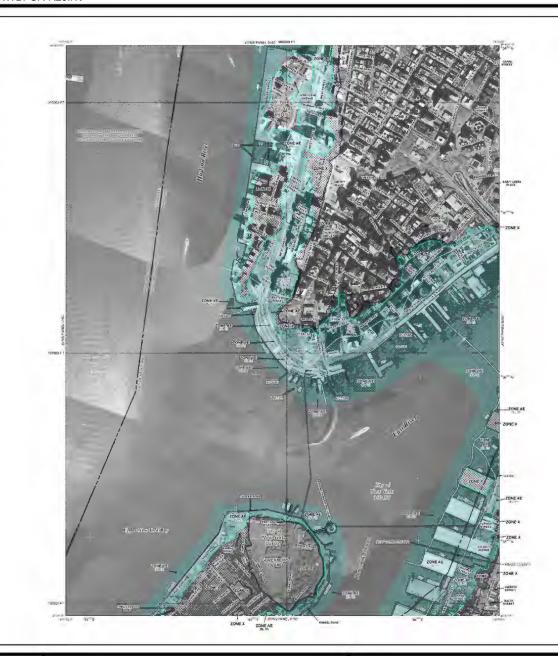
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BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK GENERAL FEMA FIRM MAP 2007 DECEMBER 2024

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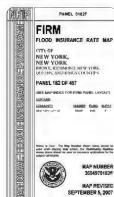
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If you have questions adopt this may or questions concerning the National Fisteransies Program in general, plants and 1-877-FRIAA MAP (1-877-335-2627) Hell the PEMA website at <u>160-2000s-from east</u>.

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BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK GENERAL FEMA FIRM MAP 2007 DECEMBER 2024

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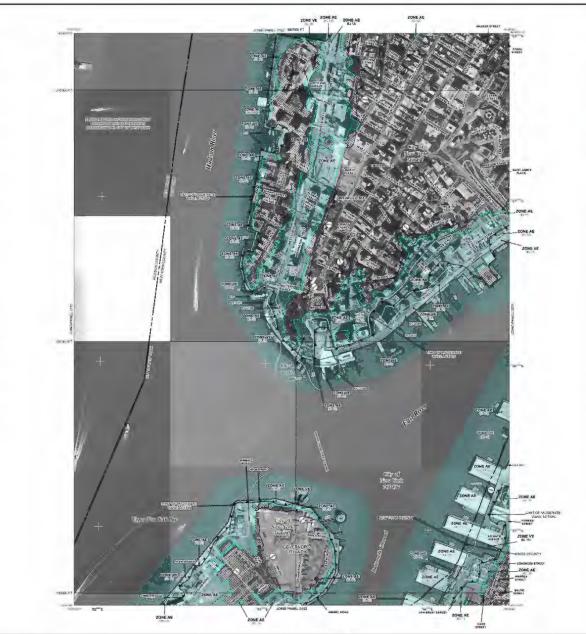
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For information on switchin protects, manufactor with this FIRSI sent the Map. Beretina Center (MBC) withints of <u>http://manufactor.nov.</u> Available protects may évalue perviously insued Latines of Map Charge, or Fixed instances Shorty Report, settler digital versions of this reap, Many of these products can be ordered or chismed directly from the MSC watership.

If you have questions about this map, how to order products or the history. Rocal frequence Program in person, please call the FDMA Map (nitrovaple acknown; (FMIX) or 1-977-FBMAMAP (1-277-336-2627) or visit the FDM weekelf in history-way forms operational miles.

NOTE: FIRM MAPS PROVIDED BY FEMA. THIS SHEET IS FOR REFERENCE ONLY AND NOT THE WORK PRODUCT OF ARCADIS.









BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK GENERAL FEMA FIRM MAP 2013 DECEMBER 2024

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Autodesk Docs://AUS-30147585-NWBPCR/G-NWBPCR-R23.rvt

NOTES TO LISER

Trits map le for use in administrating the Mallored Flood Yesterance Program. It does not necessary lightilly of enses subject to flooding, particularly trom total trainings covered or small stop. The operaturely ensembled to make a covered to the stop of th

To data now statistic forcement in terms where Base Floral Elementary (FEE) parties frequency from their information, was an encourage to count the Floral Persistent and Electronic plate smoter stamming of districts. Section 2018 of their Electronic Persistent and Electronic Pe

Case to B man Place 6 Bit values arises on the map apply my brothest of 00° North Accessor West and Service of 100° (NOVA). But have on the side should be areas that counted food elevations are also provided in the Ourse my of 285 etc. Elevations tables in 100° Fibro (Insurance 340° poor) for the precisions. Covertions shown in the Sacreacy of 300 etc. poor for the precisions. Covertions shown in the Sacreacy of 300 etc. poor some large and type the map as elevations about one of the TROM.

Boundaries of the fibodishyse were computed at cross sections and histopolised between cross actions. The floodings were based on hydroxide consideration with regard to experimental or his histopolised Flood insurance Program. Proceeding widths and other partitional floodings date are provided by the Flood insurance Study report for the Juddocking.

Centain erwee not in Especial Flood Happat Assessment by protected by Bood centred scruosures. Reter to Sandon 2.4 "Flood Protection Management of the Flood Happanous Study report for information on Stand control structures for this judicition.

The pringuistion search in the properation of the majo was New York Long Island Select Mann Filter 2001 \$2.500. The New York Long Island September 2001 Plant Selection Select

Flood elevations on this map one internount to the Horar American Varieties Digital med FIRES. Threate Richal delevations must like companyor to includure and operand elevations sub-involved to the america special elevation. For information mappeding commentation between the Notificial Goodwidt Vertical Class and the International Commentation of the Commentation of VEIDS, visit the Heldowski Classical Sub-International Section (International Commentation Commentation Commentation Developmental and Statistics of Commentation (International Commentation Commentation

NGS Information Servicins NGAA, NNNSS12 Nellocal Cassists Servey BOMCAS, SECCE 1316 Emil-West Highway Street Opinion, Serviced 20910-3-162 (0011713-)2012

To some curve a selection, between the month of the formation of the major maps, phases contact the information Senters Branco of the National Geodetic Survey at (881) 713-8242, or visit to website a bito/Zeese non-none non-

Beast was information shown on this FRRM was provided in digital formal by the Dispartment of Information Technology and Estecommunication, City of New York (POTT). The Information was desired from obtaining the provided at a point of 1.1 20% 450, All or plant from obtaining the technique of the Case and post of 1.20% 450. All or plant from obtaining the technique of the Case (POTT).

Todaming that were instrumental total as provides in Plant and provides and the todaming to design the second control of the provides of the second to Profiles and Producing Data tables in the Plant Plantance Study Report related contains authorships by drawing dataly relay reflect at second reward difference and differ from what is shown on this map.

Corporable Sealth whome on this rapp are based on the best data available at the time of publishing discusse or bringes the to annexations or determinations or the have counted safer after man year published, may used should ended appropriate community officials to varify current corporate text toxistors.

Places rater to the especially principal files indigs, for an order-law rang all the country showing the impour of map petials; community map repository addresses and a Liardy of Communities labels containing National Proof Informative Progradates for most community as well as a Telling of the penets on which well community as well as a Telling of the penets on which well communities to beaters.

The Air. Zone category has been devided by a Limit of Behalville Were active Qualifolds. The Lateral represents the expressional inclusion of level of the 1.5 - be beauting some. The effects of some learning behavior for VE Zone and dh-Lateral (or behavior the shoulthe and the Lateral Res result where WE Zones as not benefitted with the similar to, but from exercit their those in he VE Zone.

For information on mentantin products associated with the FRMs whill the life Bervice Genter (MBC) website at <u>Minchman leaturing</u>. Available products are include previously leaved Laction of Map Change, as Placed insurence Blad Report, and/or digital versions of this map, leavey of leave groduces can be ordered or obtained directly-from the MSC website.

If you have quasilions about this map, how is order products or the Pimilions Flood insurance Program in gurantil please cell like FEMA Map Information acknowing (PMIC) at 14177-PMIMA-MAP (1-677-336-9827) or visit the FEMA website of http://www.fema.com/surfame/risp.

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BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK GENERAL FEMA FIRM MAP 2013 DECEMBER 2024

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BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK GENERAL NYC TAX MAP DECEMBER 2024

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	Reach 1A				
Block	Lot	Address	Ownership (Owner of Lot)	Lessee	
None	None	Route 9A Right-of Way	New York State Department of Transportation	None	
16	12	Marginal Street, Wharf, or Place	NYC Department of Parks & Recreation	None	
16	215	345 CHAMBERS STREET	Battery Park City Authority	NYC Board of Education	
142	25	80 N. MOORE STREET / 378 GREENWICH	Independence Plaza Associates, LLC	None	
142	50	208 WEST STREET	Dormitory Authority of the State of New York	None	
Panah 2P					

Reach 2B				
Block	Lot	Address	Ownership (Owner of Lot)	Lessee
16	3	401 SOUTH END AVENUE	Battery Park City Authority	Battery Park City Authority
16	12	Marginal Street, Wharf, or Place	Hudson River Park Trust (NYCDPR?)	None
16	210	399 CHAMBERS STREET	Battery Park City Authority	Tribeca Point L.L.C. (formerly Tribeca Landing L.L.C.)
16	215	345 CHAMBERS STREET	Battery Park City Authority	NYC Board of Education

	Reach 3A				
Block	Lot	Address	Ownership (Owner of Lot)	Lessee	
16	3	401 SOUTH END AVENUE	Battery Park City Authority	Battery Park City Authority	

	Reach 4B				
Block	Lot	Address	Ownership (Owner of Lot)	Lessee	
16	225	1 NORTH END AVENUE	Battery Park City Authority	BOP One North End Ave LLC	
16	3	401 SOUTH END AVENUE	Battery Park City Authority	Battery Park City Authority	

	Reach 5A				
Block	Lot	Address	Ownership (Owner of Lot)	Lessee	
16	3	401 SOUTH END AVENUE	Battery Park City Authority	Battery Park City Authority	
16	125	225 LIBERTY STREET	Battery Park City Authority	WFP Tower B CO. L.P./Brookfield Properties	
16	150	250 VESEY STREET	Battery Park City Authority	WFP Tower D CO. L.P./Brookfield Properties	
16	100	345 SOUTH END AVENUE	Battery Park City Authority	Marina Towers Associates, L.P.	

	Reach 6A						
Block	Lot	Address	Ownership (Owner of	Lessee			
16	3	401 SOUTH END AVENUE	Battery Park City Authority	Battery Park City Authority			
16	100	345 SOUTH END AVENUE	Battery Park City Authority	Marina Towers Associates, L.P.			
16	90	377 RECTOR PLACE	Battery Park City Authority	Mariner's Cove Site J Associates			
16	95	320 ALBANY STREET	Battery Park City Authority	Hudson Tower Associates (Hudson Tower Condominium)			
16	65	380 RECTOR PLACE	Battery Park City Authority	Mariner's Cove Site K Associates			
16	45	21 SOUTH END AVENUE	Battery Park City Authority	South Cove III Associates			

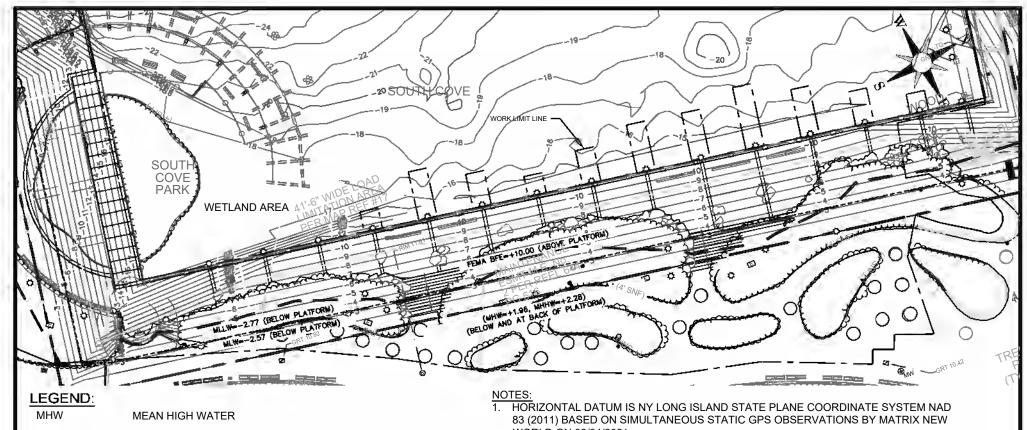
Reach 7A						
Block	Lot	Address	Ownership (Owner of Lot)	Lessee		
16	3	401 SOUTH END AVENUE	Battery Park City Authority	Battery Park City Authority		
16	20	70 BATTERY PLACE	Battery Park City Authority	BPC12 Associates L.L.C.		
16	15	50 BATTERY PLACE	Battery Park City Authority	Dematteis Battery Park Associates, LLC		
16	7511	2 SOUTH END AVENUE	Battery Park City Authority	Cove Club		



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK GENERAL NYC TAX MAP DECEMBER 2024

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MHHW

MEAN HIGHER HIGH WATER

FEMA BASE FLOOD ELEVATION (BFE)

MEAN LOW WATER (MLW)

MEAN LOW LOWER WATER (MLLW)

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

BATHYMETRIC SURVEY

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

- WORLD ON 08/04/2021.
- 2. ELEVATIONS SHOWN ARE IN NAVD88, BASED ON SIMULANEOUS STATIC GPS OBSERVATIONS BY MATRIX NEW WORLD ON 08/04/2021.
- 3. CONTROL SURVEY, BOUNDARY SURVEY, TOPOGRAPHIC SURVEY, AND UTILITIES SURVEY WAS PERFORMED BY MATRIX NEW WORLD AND PROVIDED TO ARCADIS AS RELIANCE DOCUMENTS FOR THIS PROJECT, DATED AUGUST 29, 2022. PDB CONTRACT REFERENCE DOCUMENTS APPENDIX 14 - DOC# 110 REV 10.17.22.
- 4. REGULATED TIDAL WETLANDS ADJACENT AREA LIMITS CORRESPOND TO THE FACE OF THE EXISTING BULKHEAD AT THE PROJECT SITE. FOR FURTHER DETAILS. REFER TO WETLANDS DELINEATION REPORT PREPARED BY MATRIX NEW WORLD ENGINEERING, JULY 2023.
- 5. IN WATER WORK 203 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 6. IN WATER WORK 1007 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

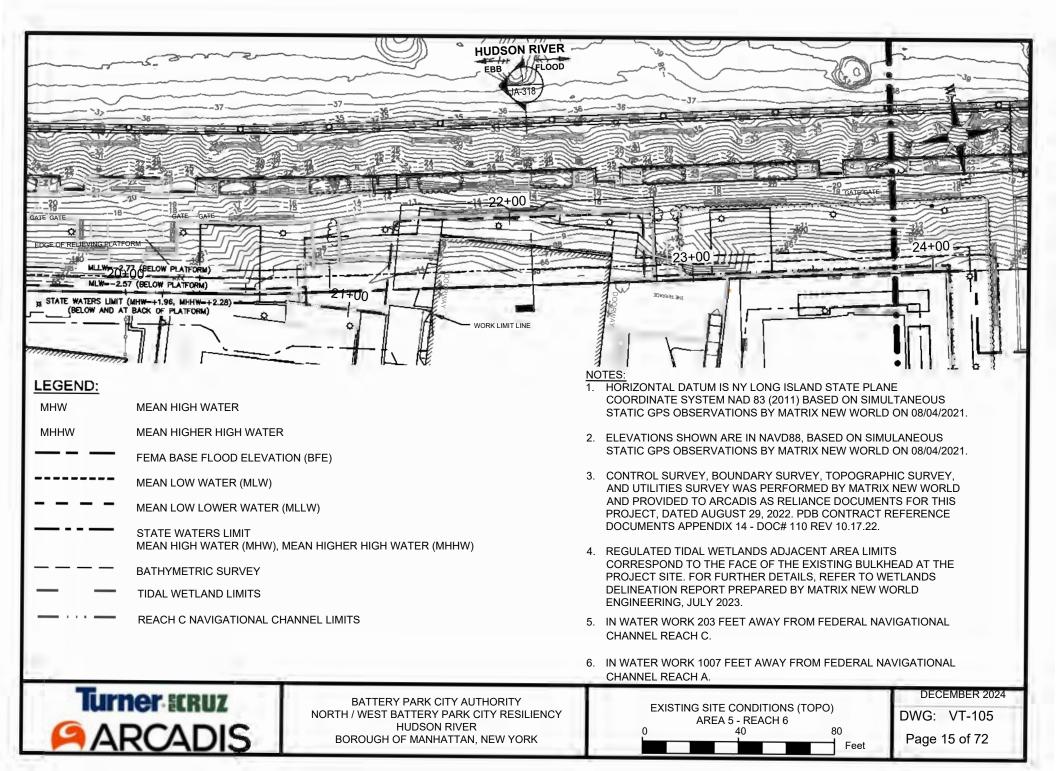


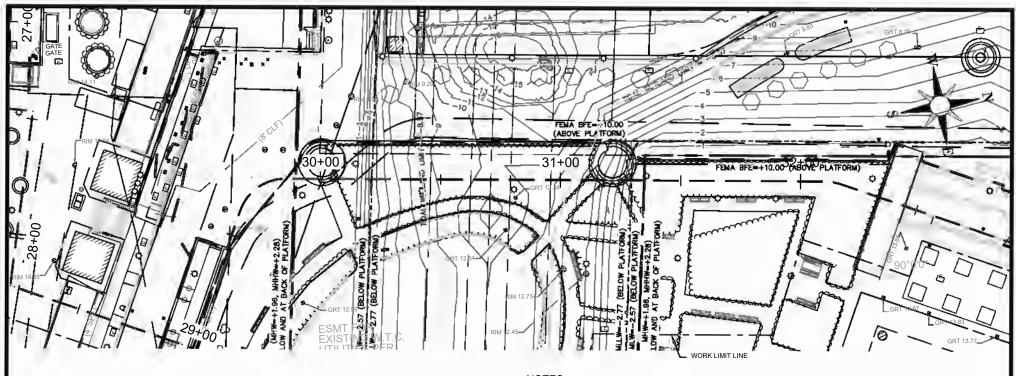
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK

EXISTING SITE CONDITIONS (TOPO) AREA 1 - REACH 7

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Feet





LEGEND:

MHW MEAN HIGH WATER

MHHW MEAN HIGHER HIGH WATER

FEMA BASE FLOOD ELEVATION (BFE)

MEAN LOW WATER (MLW)

MEAN LOW LOWER WATER (MLLW)

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

BATHYMETRIC SURVEY

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

NOTES:

- 1. HORIZONTAL DATUM IS NY LONG ISLAND STATE PLANE COORDINATE SYSTEM NAD 83 (2011) BASED ON SIMULTANEOUS STATIC GPS OBSERVATIONS BY MATRIX NEW WORLD ON 08/04/2021.
- ELEVATIONS SHOWN ARE IN NAVD88, BASED ON SIMULANEOUS STATIC GPS OBSERVATIONS BY MATRIX NEW WORLD ON 08/04/2021.
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- 5. IN WATER WORK 365 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 6. IN WATER WORK 1016 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

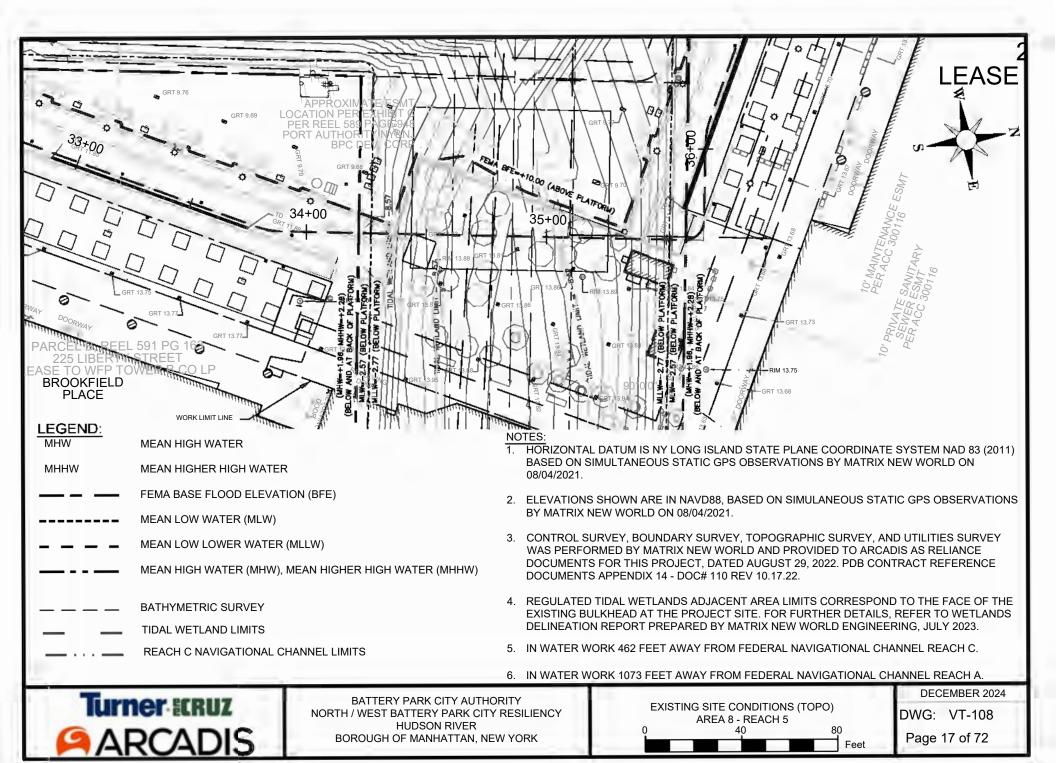
EXISTING SITE CONDITIONS (TOPO)

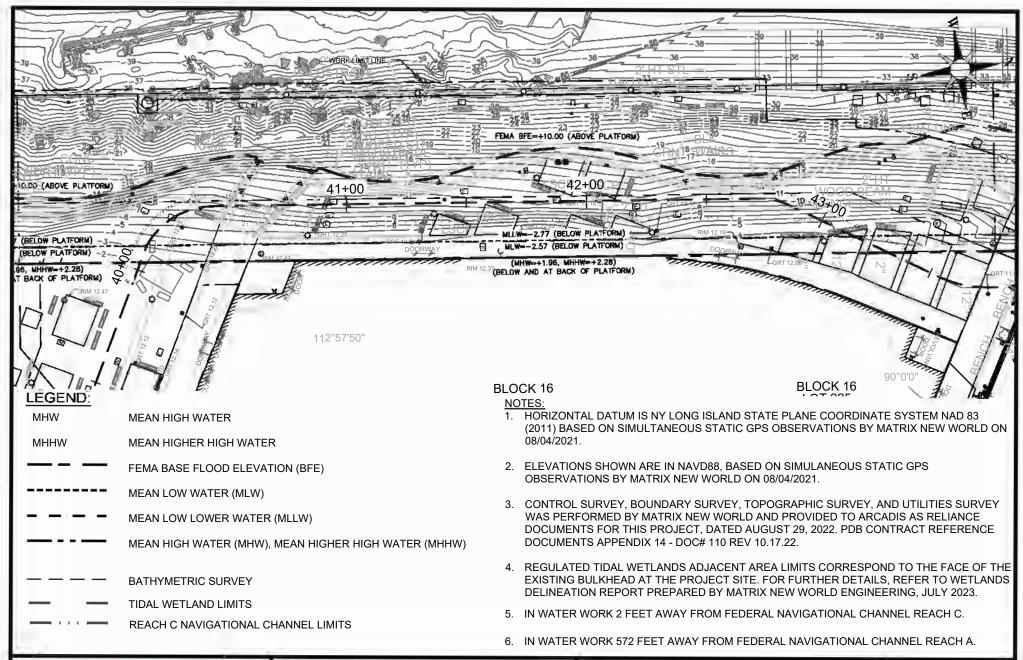
AREA 7 - REACH 5

0 40 8

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BATTERY PARK CITY AUTHORITY
NORTH / WEST BATTERY PARK CITY RESILIENCY
HUDSON RIVER
BOROUGH OF MANHATTAN, NEW YORK

EXISTING SITE CONDITIONS (TOPO)

AREA 10 - REACH 4

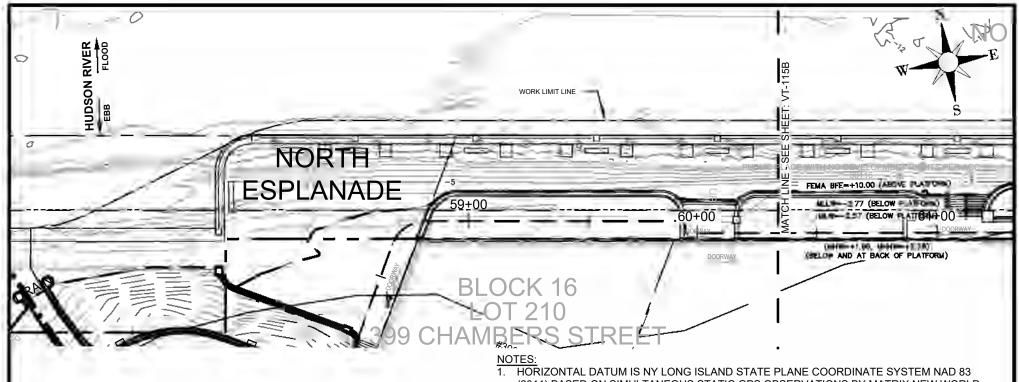
40

80

DECEMBER 2024

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LEGEND:

MHW MEAN HIGH WATER

MHHW MEAN HIGHER HIGH WATER

FEMA BASE FLOOD ELEVATION (BFE)

MEAN LOW WATER (MLW)

MEAN LOW LOWER WATER (MLLW)

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

BATHYMETRIC SURVEY

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

- HORIZONTAL DATUM IS NY LONG ISLAND STATE PLANE COORDINATE SYSTEM NAD 83
 (2011) BASED ON SIMULTANEOUS STATIC GPS OBSERVATIONS BY MATRIX NEW WORLD ON 08/04/2021.
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- 5. IN WATER WORK 439 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 6. IN WATER WORK 989 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

EXISTING SITE CONDITIONS (TOPO)

AREA 15 - REACH 2

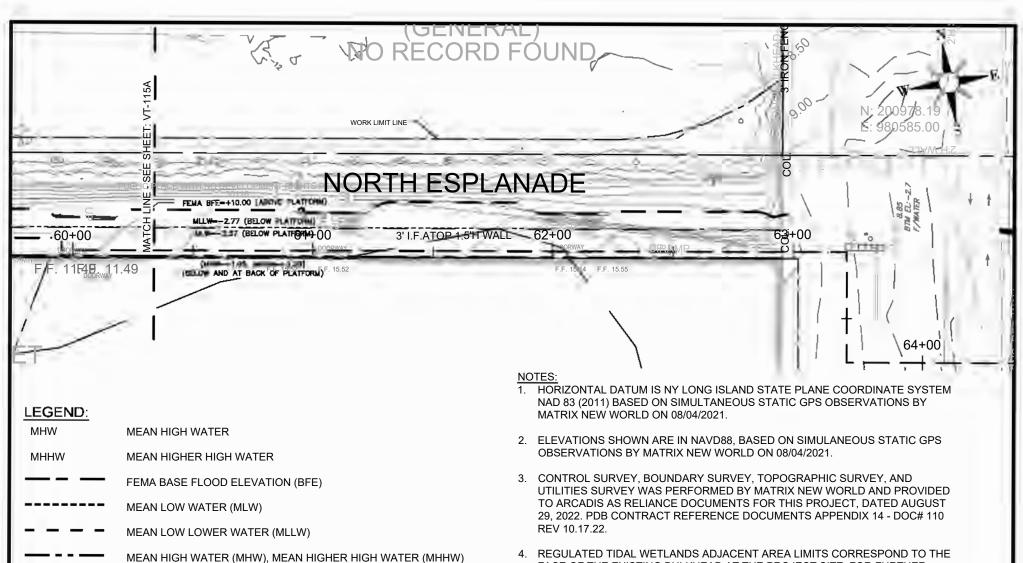
0 40 8

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Feet



- BATHYMETRIC SURVEY
- TIDAL WETLAND LIMITS
- REACH C NAVIGATIONAL CHANNEL LIMITS

- 4. REGULATED TIDAL WETLANDS ADJACENT AREA LIMITS CORRESPOND TO THE FACE OF THE EXISTING BULKHEAD AT THE PROJECT SITE. FOR FURTHER DETAILS, REFER TO WETLANDS DELINEATION REPORT PREPARED BY MATRIX NEW WORLD ENGINEERING, JULY 2023.
- 5. IN WATER WORK 439 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 6. IN WATER WORK 989 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

EXISTING SITE CONDITIONS (TOPO)

AREA 15 - REACH 2
0 40 80

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Feet

NOTES:

- THE DESIGN-BUILDER SHALL UPDATE AND SIGN A STORMWATER
 POLLUTION PREVENTION PLAN (SWPP) THAT IS IN ACCORDANCE WITH
 DEP AND NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND
 SEDIMENT CONTROL (LATEST EDITION) PRIOR TO STATING THE WORN
 NO WORK IN THE FIELD CAN START UNTIL THE SWPPP IS APPROVED.

 ALL SOIL MAN ERDISION AND SEPIMENT CONTROL IDEACTICES ARE TO BE

 ALL SOIL MAN ERDISION AND SEPIMENT CONTROL IDEACTICES ARE TO BE
- ALL SOIL AND EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- . INFORMATION SHOWN ON PLAN DRAWINGS REPRESENT AN APPROACH FOR CONTROLLING EROSION AND SEDIMENT. DEVISE AND IMPLEMENT MEASURES AS NEEDED TO ACCOMMODATE DESIGN-BUILDER'S CONSTRUCTION STAGING AND OTHER MEANS AND METHODS FOR COMPLETING CONTRACT WORK.
- 4. MINIMIZE THE DISCHARGE OF POLLUTANTS AND PREVENT ANY VIOLATIONS OF THE NEW YORK STATE WATER QUALITY STANDARDS IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY, PERMIT NO. GP-0-20-01 OR LATEST LYERSION (GENERAL PERMIT).
- 5. IMPLEMENT AND MAINTAIN STORMWATER POLLUTION PREVENTION PLANS (SWPPP) IN ACCORDANCE WITH THE GENERAL PERMIT AND 'NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL', NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, ET. AL., NOVEMBER 2016, OR LATEST VERSION (NYS STANDARDS)
- PROVIDE ALL PERSONNEL HAVING NECESSARY QUALIFICATIONS TO PREPARE AND IMPLEMENT THE SWPPP
- INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES TO ENSURE EFFECTIVENESS AND IMPLEMENT ANY CORRECTIVE MEASURES IN ACCORDANCE WITH THE APPLICABLE PERMITS
- PREVENT STORMWATER RUNOFF FROM THE WORK AREA TO FLOW OFF SITE AREAS OR TO PERCOLATE INTO GROUNDWATER.
- THE ACTUAL AREA AVAILABLE FOR THE DESIGN-BUILDER'S STAGING AREA WILL BE DETERMINED IN THE FIELD.
- REMOVE AND DISPOSE OFF SITE ALL SILT AND SEDIMENT WHICH ACCUMULATES AT SEDIMENT CONTROL PRACTICES/DEVICES.
- 11. CLEANING OF ROADWAYS: DESIGN-BUILDER SHALL KEEP THE TRAVELED WAY FREE OF FOREIGN OBJECTS SUCH AS SPILLED EARTH, ROCK, TIMBER AND ANY OTHER ITEM THAT MAY FALL FROM TRANSPORTING VEHICLES, MATERIALS SPILLED BY OR DROPPED FROM THE UNDERCARRIAGE OF WAY CARRYING VEHICLE USED IN DESIGN-BUILDER'S HAULING OPERATIONS ALONG OR ACROSS ANY PUBLIC TRAVELED WAY SHALL BE REMOYED IMBEDIATELY.
- 12. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- 13. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION ANDIOR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE NYSDEC ANDIOR THE REGIONAL OFFICE OF THE DEPARTMENT.
- 14. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY, MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS, ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESECION, REMULCHING MUST BE PERFORMED IMMEDIATELY, IF THE EAS BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTAIL FOR MULL IR PROPIDIRED.
- 15. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION
- 16. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS, FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL BEQUIREMENTS OR CODES.
- CLEAN THE WORK SITE AND EQUIPMENT CONSISTENT WITH THE SWPPP AND THE NYS STANDARDS.
- ALL SITE ENTRANCES SHALL BE STABILIZED PER THE DETAIL "STABILIZED CONSTRUCTION ENTRANCE", SHEET EC-901, TO EFFECTIVELY CAPTURE MUD AND DEBRIS FROM VEHICLES BEFORE THEY ENTER PUBLIC STREETS.
- SEE SHEET EC-901 "EROSION AND SEDIMENT CONTROL DETAILS" FOR DETAILS APPLICABLE TO EROSION AND SEDIMENT CONTROL PLANS. REFER TO THE NYS STANDARDS FOR ADDITIONAL DETAILS AS REQUIRED
- 0. CONSTRUCTION FENCE SHALL BE OF SOLID WOOD CONSTRUCTION, 8 FEET HIGH, PAINTED HUNTER GREEN, AND MEETING ALL REQUIREMENTS OF NYC BC 3307 "PROTECTION OF PEDESTRIANS". THE FENCE LINE SHALL HAVE GATES OF SIMILAR CONSTRUCTION MEETING NYC BC 3307. SUBMIT SHOP DRAWINGS OF FENCE AND GATES, SEALED BY DESIGNED BY A REGISTERED DESIGN PROFESSIONAL, TO DESIGN-BUILDER FOR ADPOPLYAL

- 1. THE EXPOSURE OF AN AREA BY SITE PREPARATION SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME EROSION AND SEDIMENT CONTROL REQUIREMENTS SHALL INCLUDE SURPACE STABILIZATION MEASURE APPLIED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASES, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENT CEASE. DISTURBED AREA MUST BE STABILIZED USING MULCH OR VEGETATION OR ANOTHER METHOD THAT DOES NOT REQUIRE SEED GERMINATION TO CONTROL EROSION. ANY GRADEO AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL BE IMMEDIATELY BROUGHT TO FINAL GRADE AND RECEIVE PERMANENT VEGETATION COVER.
- 22. IMMEDIATELY AFTER THE STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO MYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.

SCHEDULE		
BMP	INSPECTION FREQUENCY	MAINTENANCE TO BE PERFORMED
COMPOST FILTER SOCK	WEEKLY AND AFTER RUNOFF EVENTS	MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE THIRD THE ORIGINAL HEIGHT OF THE BARRIER. COMPOST FILTER SOCK SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF COMPOST FILTER SOCK IS REDUCED. COMPOST FILTER SOCKS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATION AT THE COMPOST FILTER SOCK SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE COMPOST FILTER SOCK IS REMOVED.
CONSTRUCTION ENTRANCE	DAILY	DESIGN-BUILDER SHALL MAINTAIN/REPLACE MATERIAL AS NEEDED THROUGHOUT CONSTRUCTION TO MAINTAIN SPECIFIED MINIMUM THICKNESS DURING USE OF ACCESS ROAD. A STOCKPILE OF ROCK WILL BE MAINTAINED ON SITE FOR THIS PURPOSE.
SILT FENCE	WEEKLY AND AFTER RUNOFF EVENTS	MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE THIRD THE ORIGINAL HEIGHT OF THE BARRIER. SILT FENCE SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF SILT FENCE IS REDUCED. SILT FENCE SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATION AT THE SILT FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE SILT FENCE IS REMOVED.
TURBIDITY CURTAIN	DAILY	MAINTENANCE SHALL BE PERFORMED AS NEEDED. IF NECESSARY, REMOVE SEDIMENT DEPOSITED BEHIND THE CURTAIN PRIOR TO REMOVAL OF THE CURTAIN, THE CURTAIN SHALL BE REMOVED BY CAREFULLY PULLING IT TOWARD THE CONSTRUCTION SITE TO MINIMIZE RELEASE OF ATTACHED SEDIMENT. ANY FLOATING CONSTRUCTION OR NATURAL DEBRIS SHALL BE IMMEDIATELY REMOVED TO PREVENT DAMAGE TO THE CURTAIN. IF THE CURTAIN IS ORIENTED IN A MANNER THAT FACES THE PREVAILING WINDS, FREQUENT CHECKS OF THE ANCHORAGE SHALL BE MADE.
BUBBLE CURTAIN	PRIOR TO ANY PILE DRIVING ACTIVITIES	MAINTENANCE SHALL BE PERFORMED AS NEEDED.

TEMPORARY FROSION AND SEDIMENT CONTROLS INSPECTION AND MAINTENANCE

BUBBLE CURTAIN:

 IMPLEMENT AND INSTALL BUBBLE CURTAIN TO REDUCE THE AMOUNT OF SUSPENDED SOLIDS DISPERSED DURING ANY PILE DRIVING ACTIVITIES AS WELL AS REDUCE THE EFFECT OF UNDERWITER SOUND WAVES FROM PILE DRIVING ACTIVITIES, AND CONTAIN ANY SOIL THAT MAY BE AFFECTED DIDING THE OPERATION.

CONCRETE WASHOUT:

- 1. CONCRETE WASHOUT PITS SHALL BE UTILIZED FOR ALL CONCRETE WORK TO PREVENT DISCHARGE TO DRAINAGE WAYS, STREAMS, AND WETLANDS, AND INFLITRATION TO GROUND WATER IN ACCORDANCE WITH THE MYS ENVIRONMENTAL CONSERVATION LAW. WASH OUT PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2018 NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL NYSGE GLUE BOOK.
- . WASH OUT FACILITIES SHALL BE SELF-CONTAINED, AND LINED WITH PLASTIC SHEETING WITH A MINIMUM THICKNESS OF 10 MILLIMETERS. ACCUMULATED HARDENED CONCRETE MAY BE DISPOSED OF IN A SPOIL SITE.



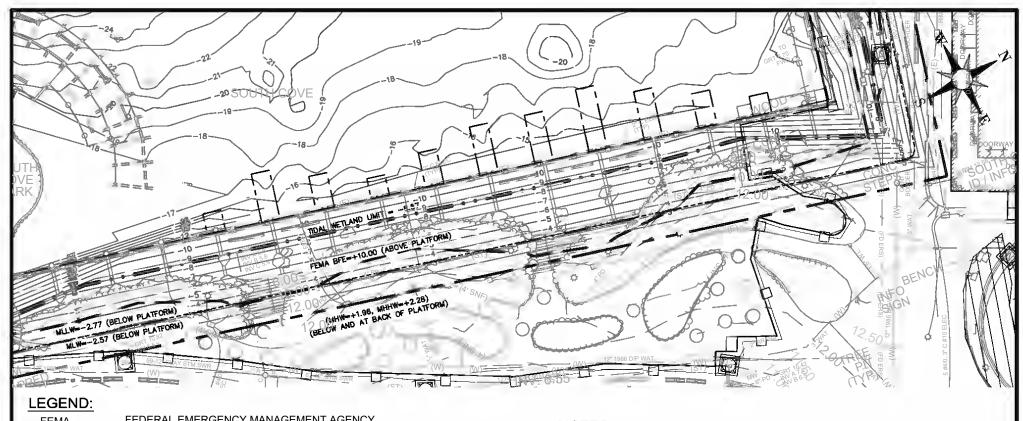
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

EROSION AND SEDIMENT CONTROL NOTES

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FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY



INLET PROTECTION



SILT FENCE



TURBIDITY CURTAIN



STAGING AREA



MEAN HIGH WATER (MHW), MEAN HIGHER HIGH (MHHW)

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

FEMA BASE FLOOD ELEVATION (BFE)

STABILIZED CONSTRUCTION ENTRANCE



BULKHEAD

LIMIT OF WORK TIDAL WETLAND LIMITS

Turner ECRUZ ARCADIS

NOTES:

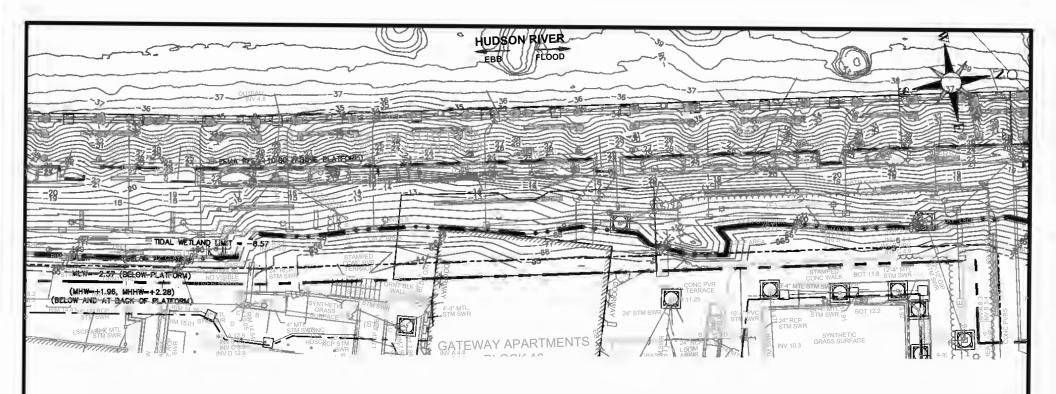
- INLET PROTECTION TO BE INSTALLED AROUND ALL EXISTING CATCH BASINS AND STORM INLETS LOCATED WITHIN THE LIMIT OF WORK.
- INLET PROTECTION TO BE INSTALLED AROUND PROPOSED CATCH BASINS AND INLETS IF WORK AREA REMAINS UNSTABLE.
- SEDIMENT BARRIERS, SUCH AS SILT FENCES AND FILTER SOCKS, TO BE INSTALLED IN AREAS WHERE SOIL IS DISTURBED AND SURFACE FLOWS DRAIN IN THE DIRECTION OF THE PROTECTED AREA.
- SILT FENCE TO BE SUBSTITUTED FOR COMPOST FILTER SOCK IN AREAS WHERE INSTALLATION OF SILT FENCE IS NOT FEASIBLE.
- TURBIDITY CURTAIN TO BE PLACED FOR IN-WATER CONSTRUCTION. LOCATION AND EXTENT TO BE DETERMINED BY DESIGN-BUILDER.
- 6. IN WATER WORK 203 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL
- IN WATER WORK 1007 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK

EROSION AND SEDIMENT CONTROL PLAN AREA 1 - REACH 7

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LEGEND:

FEDERAL EMERGENCY MANAGEMENT AGENCY **FEMA**

INLET PROTECTION

SILT FENCE

TURBIDITY CURTAIN

STABILIZED CONSTRUCTION ENTRANCE

STAGING AREA

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH (MHHW)

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

FEMA BASE FLOOD ELEVATION (BFE)

BULKHEAD LIMIT OF WORK

TIDAL WETLAND LIMITS

NOTES:

- INLET PROTECTION TO BE INSTALLED AROUND ALL EXISTING CATCH BASINS AND STORM INLETS LOCATED WITHIN THE LIMIT OF WORK.
- INLET PROTECTION TO BE INSTALLED AROUND PROPOSED CATCH BASINS AND INLETS IF WORK AREA REMAINS UNSTABLE.
- SEDIMENT BARRIERS, SUCH AS SILT FENCES AND FILTER SOCKS, TO BE INSTALLED IN AREAS WHERE SOIL IS DISTURBED AND SURFACE FLOWS DRAIN IN THE DIRECTION OF THE PROTECTED AREA.
- SILT FENCE TO BE SUBSTITUTED FOR COMPOST FILTER SOCK IN AREAS WHERE INSTALLATION OF SILT FENCE IS NOT FEASIBLE.
- TURBIDITY CURTAIN TO BE PLACED FOR IN-WATER CONSTRUCTION. LOCATION AND EXTENT TO BE DETERMINED BY DESIGN-BUILDER.
- IN WATER WORK 2 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL
- IN WATER WORK 705 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

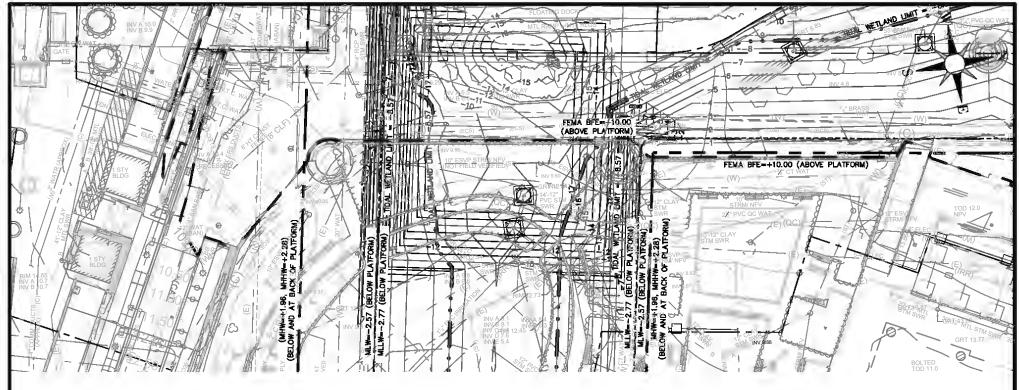


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EROSION AND SEDIMENT CONTROL PLAN AREA 5 - REACH 6

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FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY



INLET PROTECTION



SILT FENCE



TURBIDITY CURTAIN



STAGING AREA

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH (MHHW)

- - - -

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

_ _ .

FEMA BASE FLOOD ELEVATION (BFE)

STABILIZED CONSTRUCTION ENTRANCE

BULKHEAD LIMIT OF WORK

TIDAL WETLAND LIMITS

NOTES:

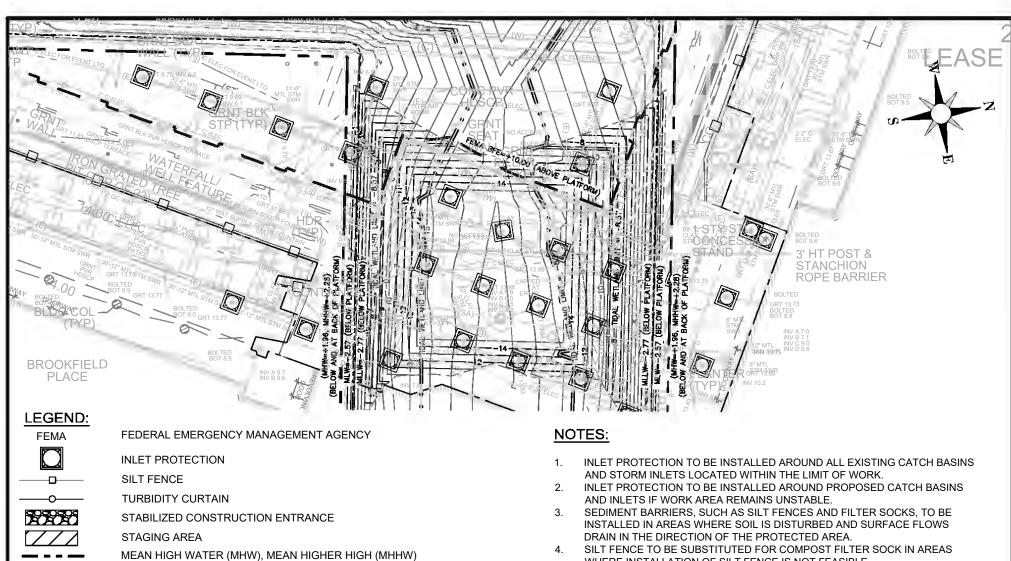
- 1. INLET PROTECTION TO BE INSTALLED AROUND ALL EXISTING CATCH BASINS AND STORM INLETS LOCATED WITHIN THE LIMIT OF WORK.
- 2. INLET PROTECTION TO BE INSTALLED AROUND PROPOSED CATCH BASINS AND INLETS IF WORK AREA REMAINS UNSTABLE.
- SEDIMENT BARRIERS, SUCH AS SILT FENCES AND FILTER SOCKS, TO BE INSTALLED IN AREAS WHERE SOIL IS DISTURBED AND SURFACE FLOWS DRAIN IN THE DIRECTION OF THE PROTECTED AREA.
- 4. SILT FENCE TO BE SUBSTITUTED FOR COMPOST FILTER SOCK IN AREAS WHERE INSTALLATION OF SILT FENCE IS NOT FEASIBLE.
- TURBIDITY CURTAIN TO BE PLACED FOR IN-WATER CONSTRUCTION. LOCATION AND EXTENT TO BE DETERMINED BY DESIGN-BUILDER.
- IN WATER WORK 365 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 7. IN WATER WORK 1016 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

EROSION AND SEDIMENT CONTROL PLAN AREA 7 - REACH 5 0 40 80 DECEMBER 2024
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BULKHEAD LIMIT OF WORK **TIDAL WETLAND LIMITS**

- WHERE INSTALLATION OF SILT FENCE IS NOT FEASIBLE.
- TURBIDITY CURTAIN TO BE PLACED FOR IN-WATER CONSTRUCTION. LOCATION AND EXTENT TO BE DETERMINED BY DESIGN-BUILDER.
- IN WATER WORK 462 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL
- IN WATER WORK 1073 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

Turner ECRUZ BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK

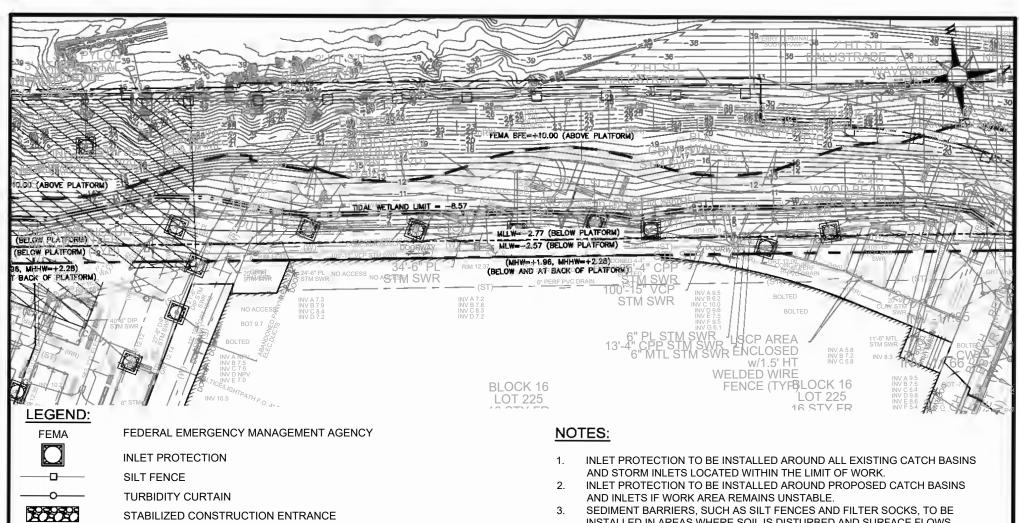
FEMA BASE FLOOD ELEVATION (BFE)

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

EROSION AND SEDIMENT CONTROL PLAN AREA 8 - REACH 5

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STABILIZED CONSTRUCTION ENTRANCE

STAGING AREA

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH (MHHW)
MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

FEMA BASE FLOOD ELEVATION (BFE)

BULKHEAD

LIMIT OF WORK

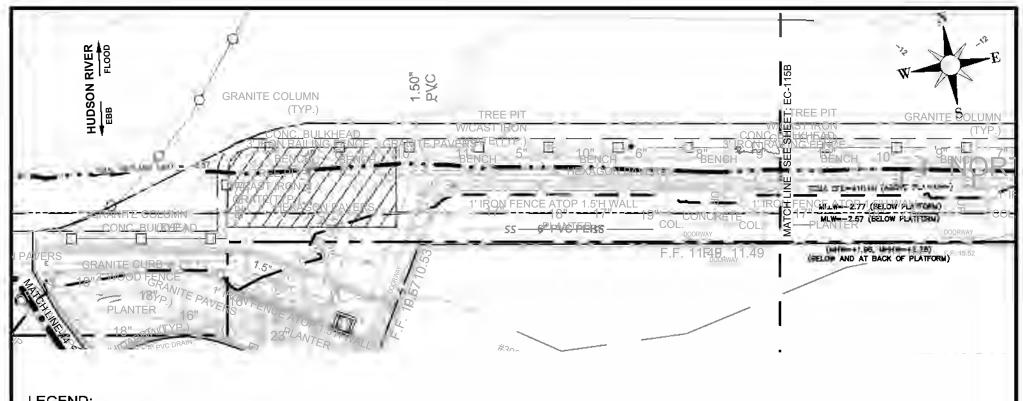
TIDAL WETLAND LIMITS

- SEDIMENT BARRIERS, SUCH AS SILT FENCES AND FILTER SOCKS, TO BE INSTALLED IN AREAS WHERE SOIL IS DISTURBED AND SURFACE FLOWS DRAIN IN THE DIRECTION OF THE PROTECTED AREA.
- 4. SILT FENCE TO BE SUBSTITUTED FOR COMPOST FILTER SOCK IN AREAS WHERE INSTALLATION OF SILT FENCE IS NOT FEASIBLE.
- TURBIDITY CURTAIN TO BE PLACED FOR IN-WATER CONSTRUCTION. LOCATION AND EXTENT TO BE DETERMINED BY DESIGN-BUILDER.
- 6. IN WATER WORK 2 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- IN WATER WORK 572 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK EROSION AND SEDIMENT CONTROL PLAN AREA 10 - REACH 4 0 40 80 DECEMBER 2024 DWG: EC-110

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FEDERAL EMERGENCY MANAGEMENT AGENCY **FEMA**

INLET PROTECTION

SILT FENCE

TURBIDITY CURTAIN

STABILIZED CONSTRUCTION ENTRANCE

STAGING AREA

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH (MHHW)

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

FEMA BASE FLOOD ELEVATION (BFE)

BULKHEAD LIMIT OF WORK

TIDAL WETLAND LIMITS

NOTES:

- INLET PROTECTION TO BE INSTALLED AROUND ALL EXISTING CATCH BASINS AND STORM INLETS LOCATED WITHIN THE LIMIT OF WORK.
- INLET PROTECTION TO BE INSTALLED AROUND PROPOSED CATCH BASINS AND INLETS IF WORK AREA REMAINS UNSTABLE.
- SEDIMENT BARRIERS, SUCH AS SILT FENCES AND FILTER SOCKS, TO BE INSTALLED IN AREAS WHERE SOIL IS DISTURBED AND SURFACE FLOWS DRAIN IN THE DIRECTION OF THE PROTECTED AREA.
- SILT FENCE TO BE SUBSTITUTED FOR COMPOST FILTER SOCK IN AREAS WHERE INSTALLATION OF SILT FENCE IS NOT FEASIBLE.
- TURBIDITY CURTAIN TO BE PLACED FOR IN-WATER CONSTRUCTION. LOCATION AND EXTENT TO BE DETERMINED BY DESIGN-BUILDER.
- 6. IN WATER WORK 439 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL
- IN WATER WORK 989 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.



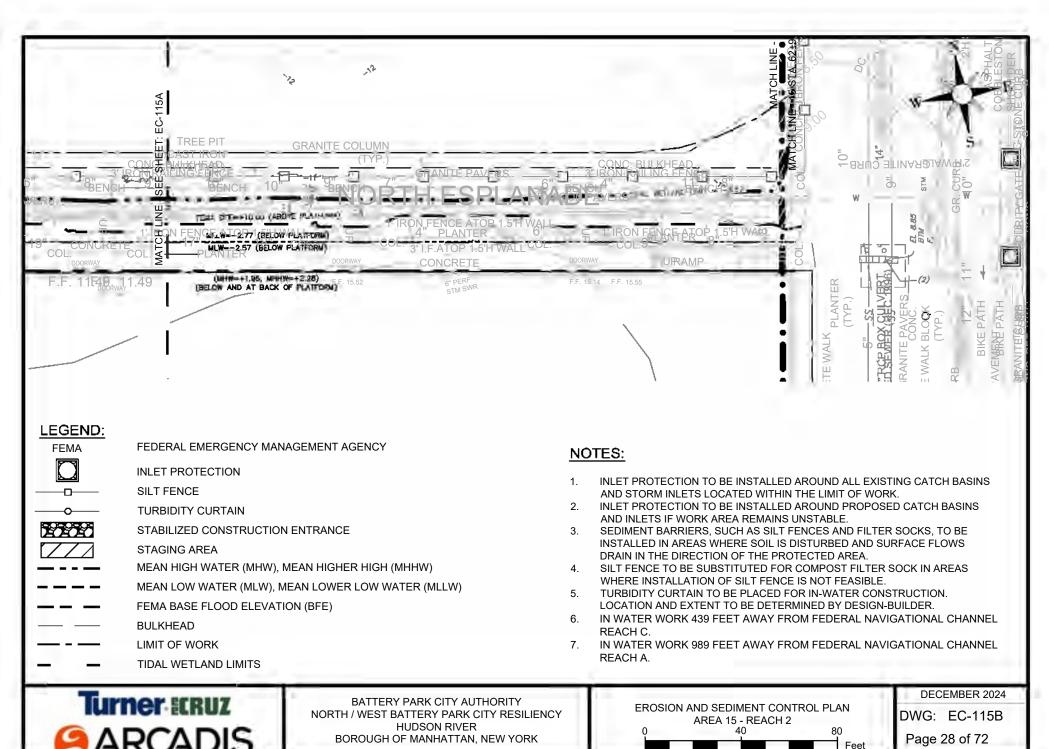
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK

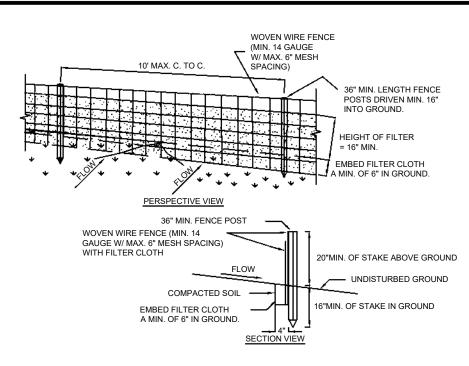
EROSION AND SEDIMENT CONTROL PLAN AREA 15 - REACH 2

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Feet

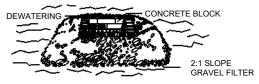




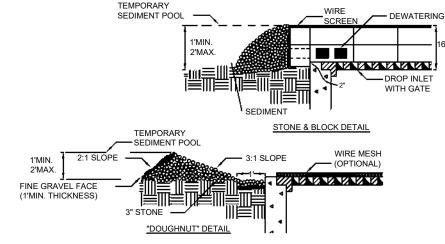
CONSTRUCTION SPECIFICATIONS

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.





STONE & BLOCK PLAN VIEW



CONSTRUCTION SPECIFICATIONS

- 1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
- 2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- 3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
- 4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

2 INLET PROTECTION

NOT TO SCALE



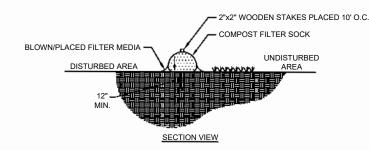
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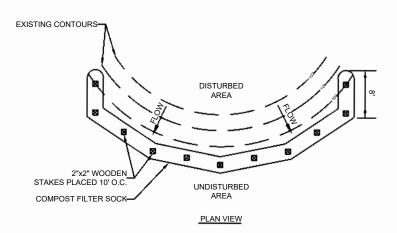
EROSION AND SEDIMENT CONTROL DETAILS

DECEMBER 2024

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- 1. SOCK FABRIC SHALL MEET THE STANDARDS LISTED ON TABLE 5.1 IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" PER NYSDEC. COMPOST SHALL MEET THE STANDARDS LISTED ON TABLE 5.2 IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" PER NYSDEC.
- 2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 5.2). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON PAGE 5.7 IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" PER NYSDEC. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
- 3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- 4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- 5. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- 6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND

COMPOST FILTER SOCK





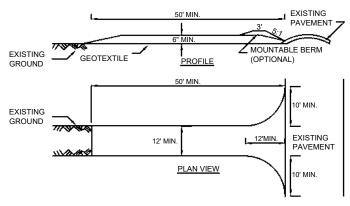
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

EROSION AND SEDIMENT CONTROL DETAILS

DECEMBER 2024

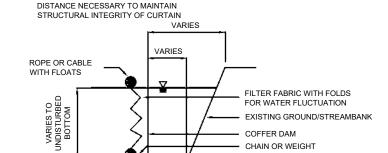
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CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE FOLIVALENT
- 2. LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- 5. GEOTEXTILE WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON-STRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN DURING CONSTRUCTION ONLY.
- 4 STABILIZED CONSTRUCTION ENTRANCE
 NOT TO SCALE



CONSTRUCTION NOTES FOR TURBIDITY CURTAIN

- TURBIDITY CURTAIN SHALL BE LOCATED BEYOND THE LATERAL LIMITS OF ANY CONSTRUCTION ACTIVITY AND FIRMLY ANCHORED IN PLACE.
- THE ALIGNMENT SHALL BE SET AS CLOSE AS POSSIBLE TO THE WORK AREA BUT NOT SO CLOSE AS TO BE DISTURBED BY CONSTRUCTION EQUIPMENT.
- THE HEIGHT OF THE CURTAIN SHALL BE 20 PERCENT GREATER THAN THE DEPTH OF THE WATER TO ALLOW FOR WATER LEVEL FLUCTUATIONS.
- 4. THE AREA OF PROPOSED INSTALLATION OF THE CURTAIN SHOULD BE INSPECTED FOR OBSTACLES AND IMPEDIMENTS THAT COULD DAMAGE THE CURTAIN OR IMPAIR ITS EFFECTIVENESS TO RETAIN SEDIMENT.
- 5. TURBIDITY CURTAIN SHALL BE INSPECTED DAILY AND MAINTAINED AS REQUIRED WHILE INSTALLED.





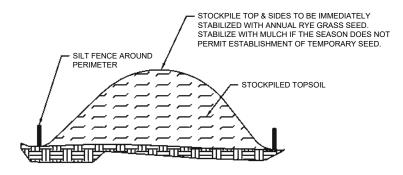
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

EROSION AND SEDIMENT CONTROL DETAILS

DECEMBER 2024

DWG: EC-903

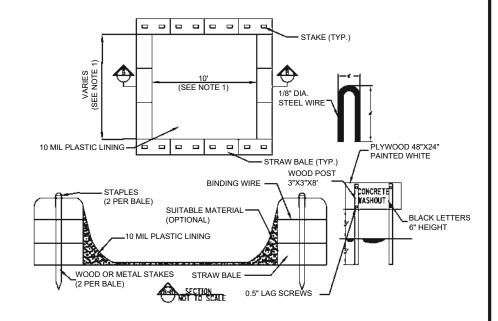
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CONSTRUCTION NOTES FOR SOIL STOCKPILING

- 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
- 3. THE GROUND SURFACE WHERE SOIL WILL BE STOCKPILED SHALL BE COVERED WITH A MINIMUM OF 0.25 MM OR 2 LAYERS OF 0.15 MM POLYETHYLENE SHEETING OR AN APPROVED FOLIAL MATERIAL
- 4. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING.
- 5. A MINIMUM OF 12" MUST BE MAINTAINED BETWEEN THE TOE OF THE STOCKPILE AND THE EDGE OF THE FENCE ON ALL SIDES.
- 6. PRIOR TO THE END OF EACH WORK DAY, STOCKPILES SHALL BE COMPLETELY COVERED WITH POLYETHYLENE SHEETING. STOCK PILE COVERS SHALL BE WEIGHTED OR SECURED BY APPROPRIATE MEANNS. ALL SEAMS SHALL BE OVERLAPPED AND SEALED. DAMAGED COVER SHALL BE REPAIRED OR REPLACED BY THE DESIGN-BUILDER WITHIN 24 HOURS AFTER NOTIFICATION.





CONSTRUCTION NOTES FOR CONCRETE WASHOUT

- 1. ACTUAL LAYOUT AND LOCATION TO BE DETERMINED IN FIELD.
- 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 5 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- 3. LOCATE WASHOUT AREA AT LEAST 50-FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID OR SOLID WASTE.
- 4. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY.
- 5. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHALL BE CONSTRUCTED AS SHOWN ON THE DETAILS WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10-FEET, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.





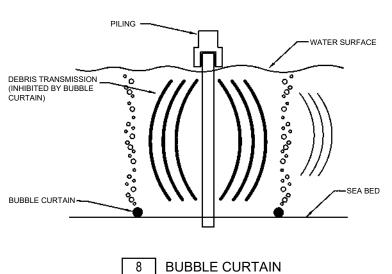
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

EROSION AND SEDIMENT CONTROL DETAILS

DECEMBER 2024

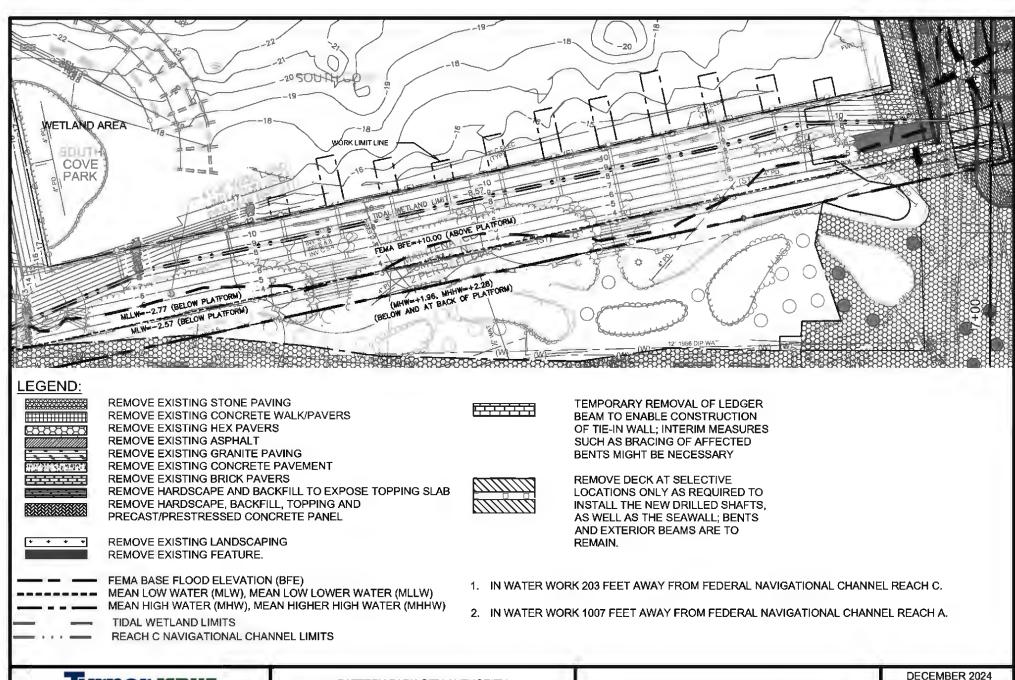
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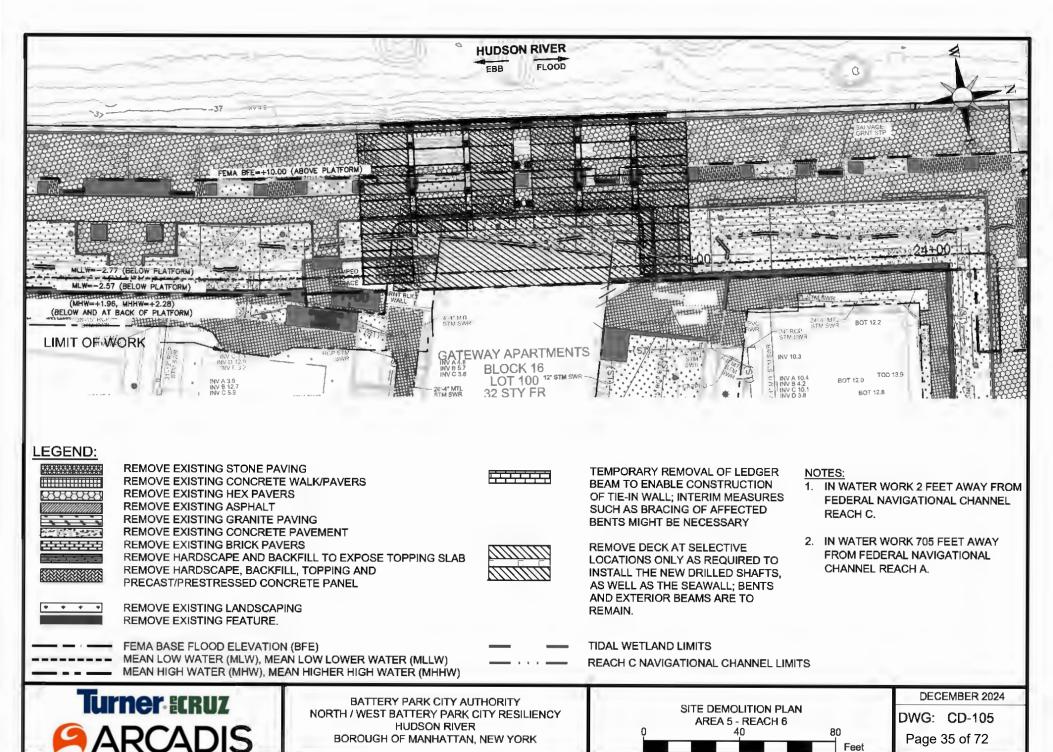
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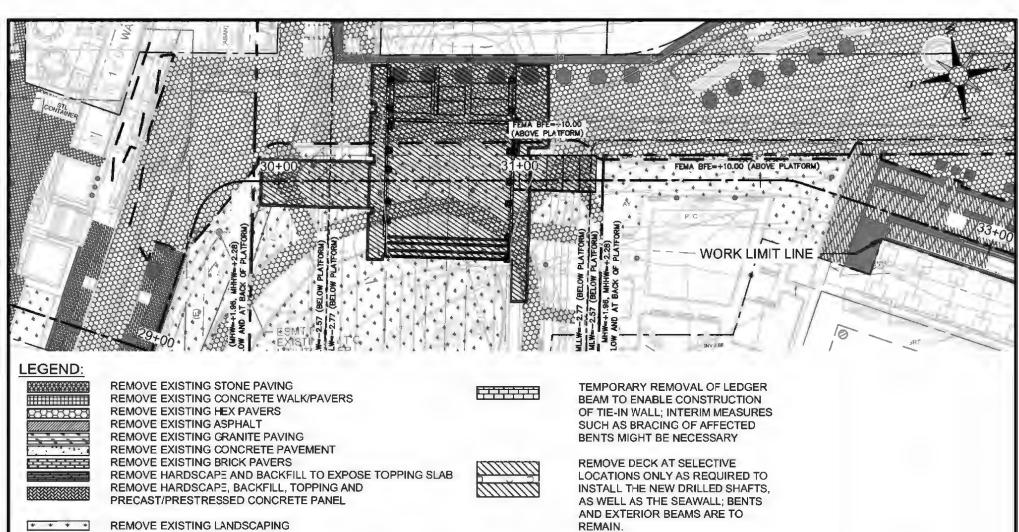
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BATTERY PARK CITY AUTHORITY
NORTH / WEST BATTERY PARK CITY RESILIENCY
HUDSON RIVER
BOROUGH OF MANHATTAN, NEW YORK

SITE DEMOLITION PLAN
AREA 1 - REACH 7
0 40 80
Feet

DWG: CD-101
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REMOVE EXISTING LANDSCAPING REMOVE EXISTING FEATURE.

FEMA BASE FLOOD ELEVATION (BFE)
MEAN LOW WATER (MLW), MEAN LOW LOWER WATER (MLLW)
MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

NOTES:

- IN WATER WORK 365 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 2. IN WATER WORK 1016 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

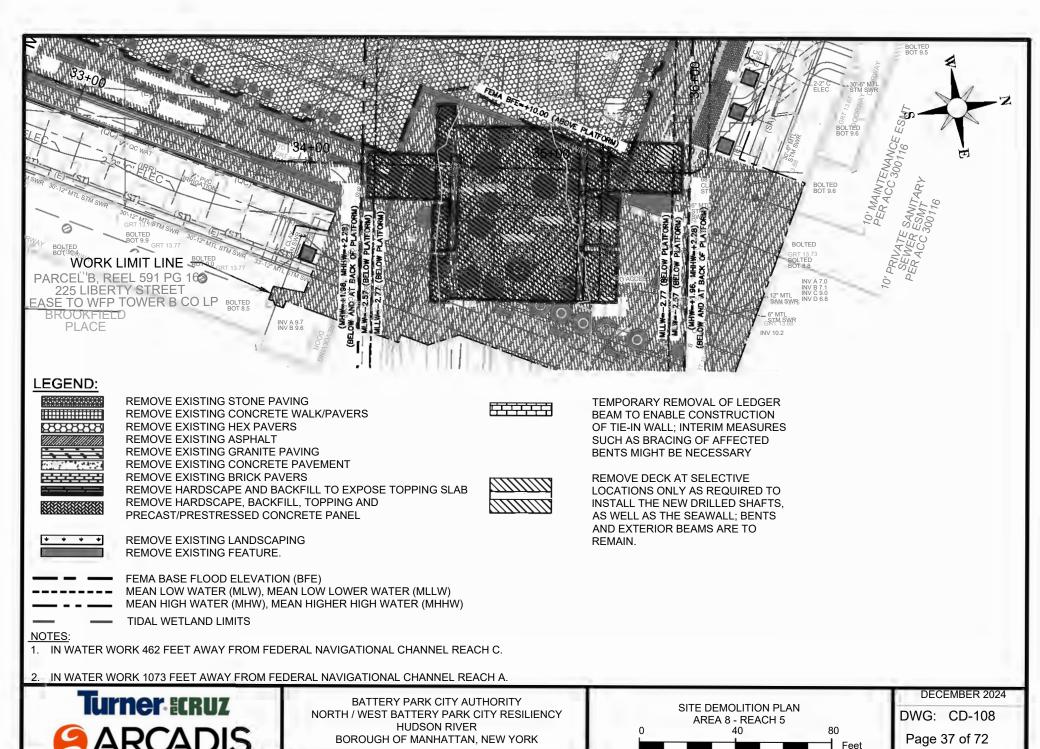


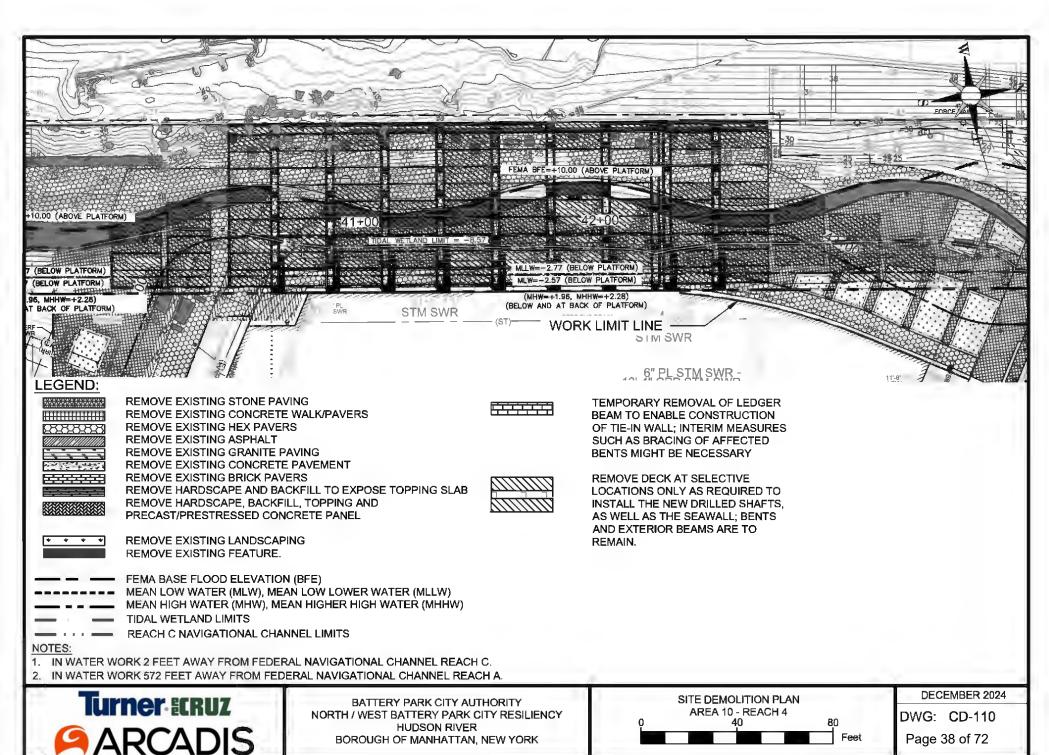
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK SITE DEMOLITION PLAN
AREA 7 - REACH 5
0 40 80
Feet

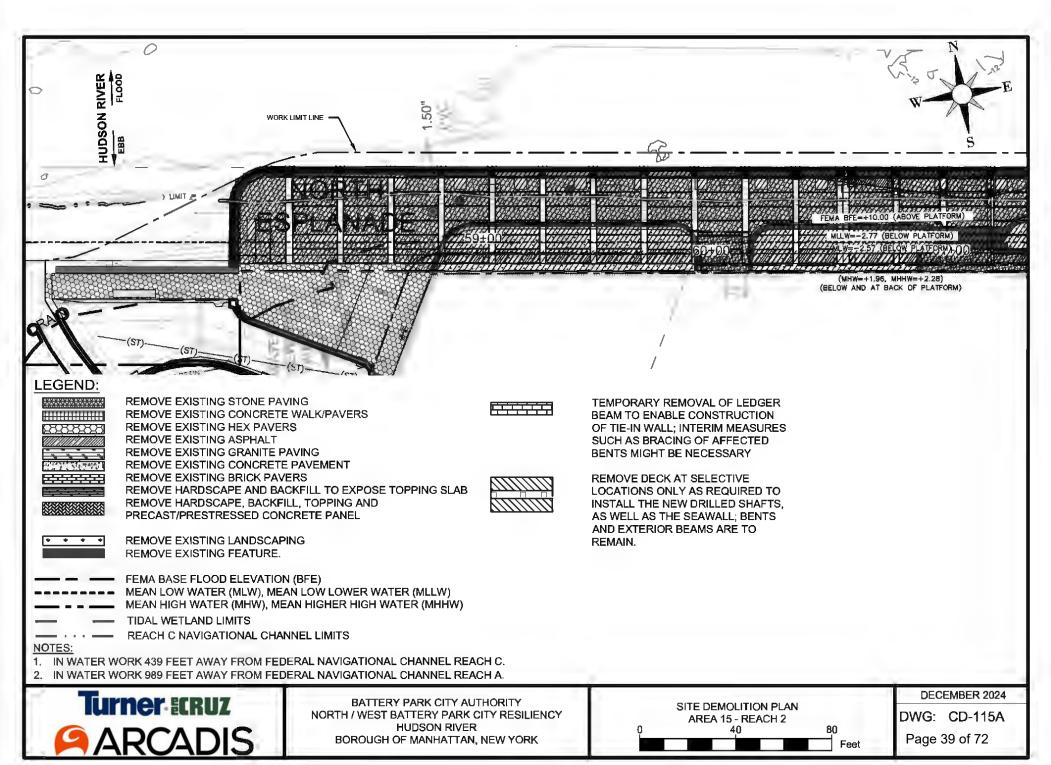
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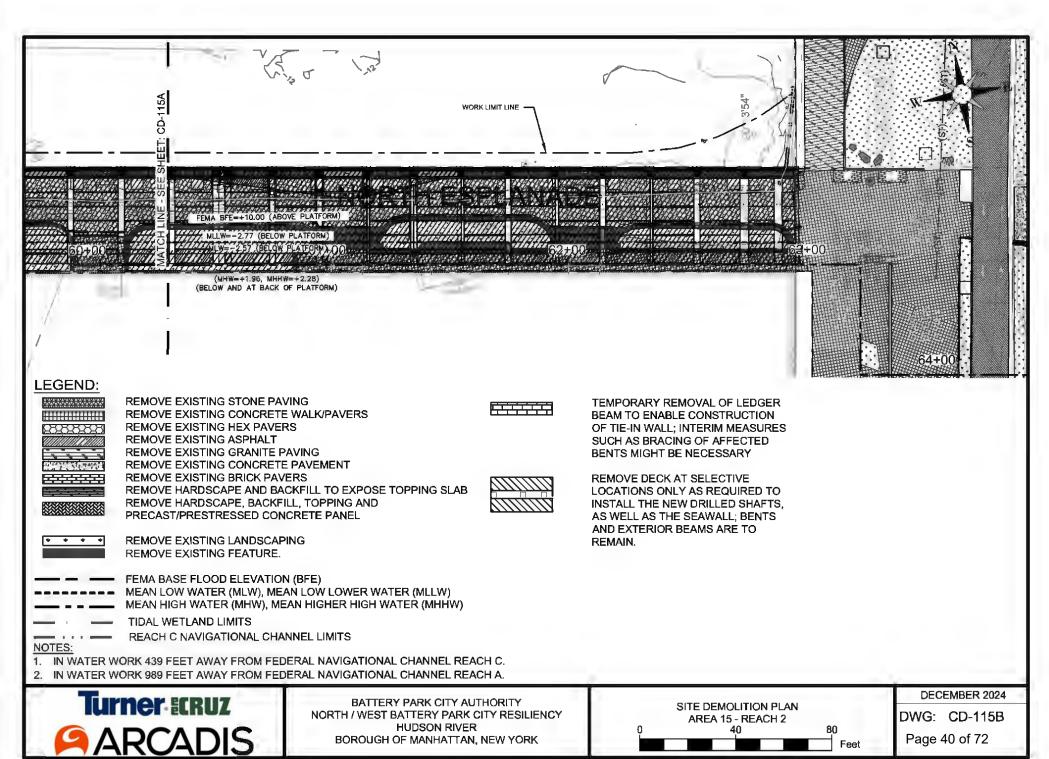
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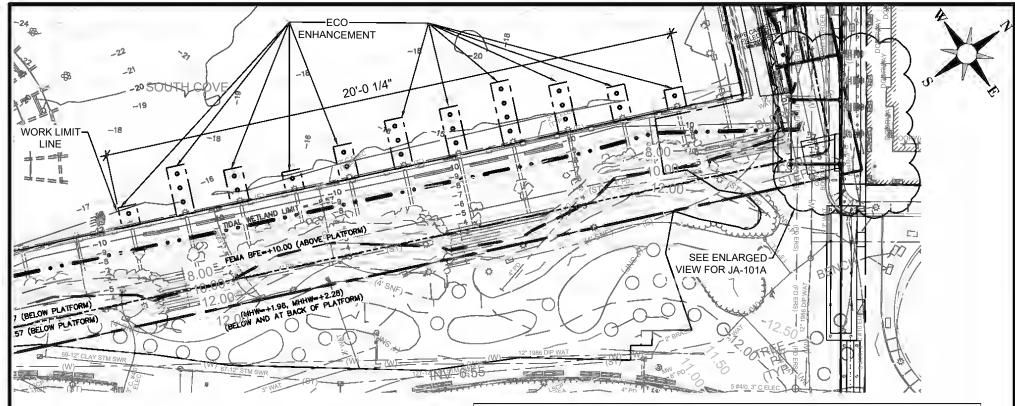
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LEGEND:

FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY

FEMA BASE FLOOD ELEVATION

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

PROPOSED MICROPILE
ECO ENHANCEMENT

NOTES:

REFER TO NYCDOT STANDARD DETAILS OF CONSTRUCTION FOR CONCRETE PAVEMENT, ASPHALT PAVEMENT, SIDEWALK AND OTHER SURFACE RESTORATION DETAILS.

USACE JURISDICTION - REACH 7 - OPEN WATER						
CLZE	COUNT	AREA	VOLUME	VOLUME		
SIZE	COUNT	(SF)	(MHHW-MUDLINE) (CY)	(MHW-MUDLINE) (CY)		
13.375" ø	4	4	2	1		
ECOLOGICAL ENHANCEMENT PILES		35	12.8	12.4		

NYSDEC JURISDICTION - REACH 7 (-6 TO 1.96) - TIDAL WETLANDS						
SIZE COUNT AREA (SF) (MHW-TIDAL WETLAND) (CY)						
13.375" ø	4	4	1			

- 2. IN WATER WORK 203 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 3. IN WATER WORK 1007 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.



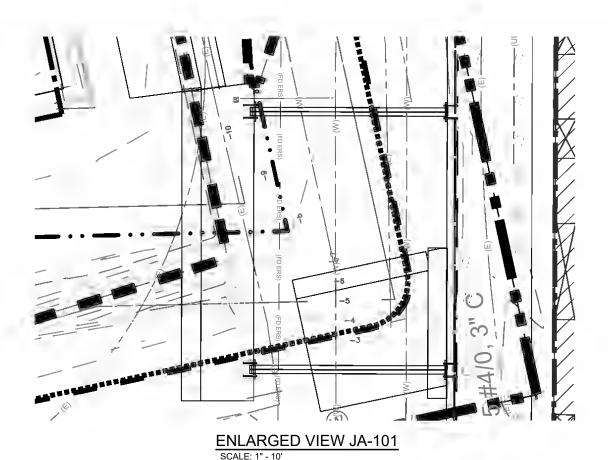
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

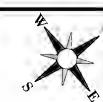


DECEMBER 2024

DWG: JA-101

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LEGEND:

FEMA

FEDERAL EMERGENCY MANAGEMENT AGENCY

FEMA BASE FLOOD ELEVATION

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW) MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

PROPOSED MICROPILE

NOTES:

- REFER TO NYCDOT STANDARD DETAILS OF CONSTRUCTION FOR CONCRETE PAVEMENT, ASPHALT PAVEMENT, SIDEWALK AND OTHER SURFACE RESTORATION DETAILS.
- 2. IN WATER WORK 203 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 3. IN WATER WORK 1007 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.



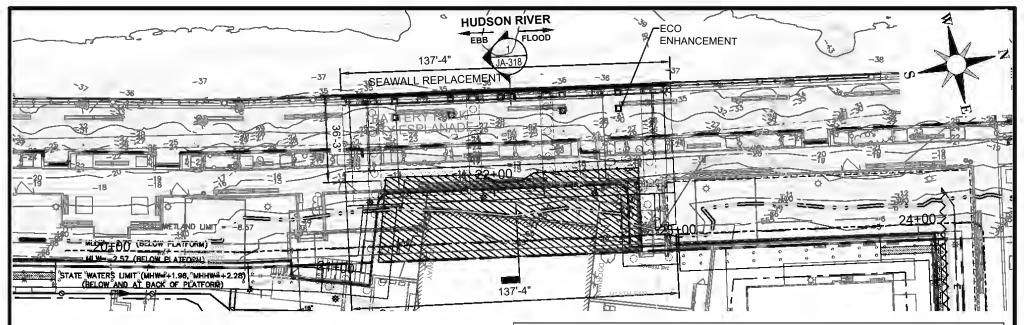
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK



DECEMBER 2024

DWG: JA-101A

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LEGEND:

FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY

FEMA BASE FLOOD ELEVATION

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW) MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

PROPOSED IN-WATER LOW PERMEABILITY CLEAN FILL

36" DIA. DRILLED SHAFT 403030s 36" DIA. O-PILE SHEETPILING PROPOSED MICROPILE

ECO ENHANCEMENT

REACH 6 - OPEN WATER					
SIZE	" COUNT/ LINEAR FEET (LF)(')"	"PLAN AREA (SF)"	"VOLUME (MHHW-MUDLINE) (CY)"	"VOLUME (MHW-MUDLINE) (CY)"	
36" DRILLED SHAFT	36	354	269	265	
SEAWALL	137'-4''	157	42	37	
36" O-PILE SHEETPILING	154 LF	368	192	187	
LOW PERMEABILITY CLEAN FILL		3578	1504	1444	
PLATFORM RECONSTRUCTION		6298			
ECOLOGICAL ENHANCEMENT SEAWALL		17	4.8	4.6	
ECOLOGICAL ENHACEMENT PILES		28.9	19.8	5	

NOTES:

- 1. REFER TO NYCDOT STANDARD DETAILS OF CONSTRUCTION FOR CONCRETE PAVEMENT, ASPHALT PAVEMENT. SIDEWALK AND OTHER SURFACE RESTORATION DETAILS.
- AT REACH 6. A RELIEVING PLATFORM IS DESIGNED TO BE CONSTRUCTED AT AN ELEVATION. HIGHER THAN THE EXISTING RELIEVING PLATFORM AND ABOVE MHW AND MHHW.
- 3. IN WATER WORK 2 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 4. IN WATER WORK 705 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

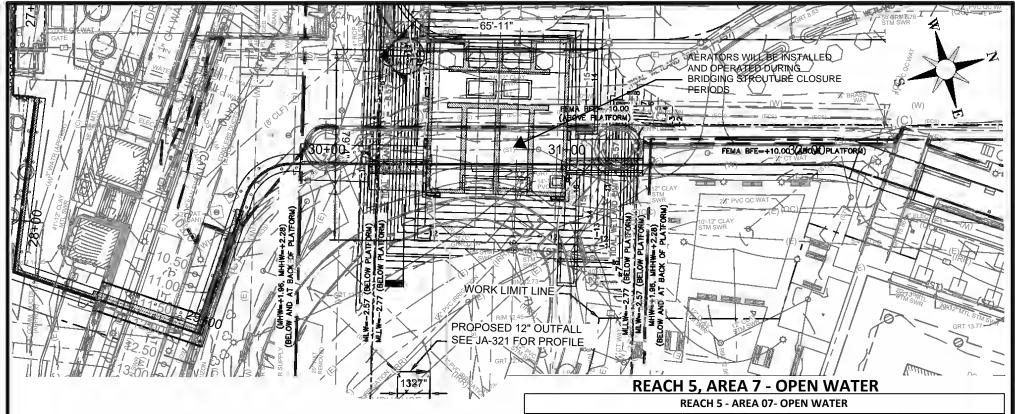
REACH 6 - TIDAL WETLANDS					
SIZE	COUNT	"AREA	"VOLUME		
SIZE	(LF)	(SF)"	(MHW-TIDAL WETLAND) (CY)"		
36" DRILLED SHAFT	8	57	21		
36" O-PILE SHEETPILING	65 LF	99	55		
LOW PERMEABILITY CLEAN FILL		3549	1433		



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK

PROPOSED PLAN AREA 5 - REACH 6

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LEGEND:

FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY

FEMA BASE FLOOD ELEVATION

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW) MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

42" DIA. O-PILE SHEETPILING PROPOSED MICROPILE

DRILLED SHAFT PILES

NOTES:

- REFER TO NYCDOT STANDARD DETAILS OF CONSTRUCTION FOR CONCRETE PAVEMENT, ASPHALT PAVEMENT, SIDEWALK AND OTHER SURFACE RESTORATION DETAILS.
- 2. IN WATER WORK 365 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 3. IN WATER WORK 1016 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

REACH 5 - AREA 07- OPEN WATER					
SIZE L	"COUNT/ DUINEAR INEAR ECLEP(")"	A:RAE _A A(SF)" (VOYOUNIE (MHHW-MUDLINE) MHHWEY/MUD	VÖQUME (MHW-MUDLINE) (MHW-MUDL	
13.375" MICROPILE	/LE\ ⁸	31	LINE) ₁₂ (CY)		
42" O-PILE SHEETPILING	(LE3) LF	99	35	34	
SOUTH BRIDGING STRUCTURE		3746	2160	2115	
PLATFORM RECONSTRUCTION		3312			

REACH 5 - AREA 07 - TIDAL WETLANDS						
SIZE	"COUNT/ LINEAR FEET (LF)(')"	"AREA (SF)"	"VOLUME (MHW-TIDAL WETLAND) (CY)"			
13.375" MICROPILE	8.00	31.00	12.00			
42" O-PILE SHEETPILING	53 LF	99	34			
			DESCRIPTION			

80

Feet



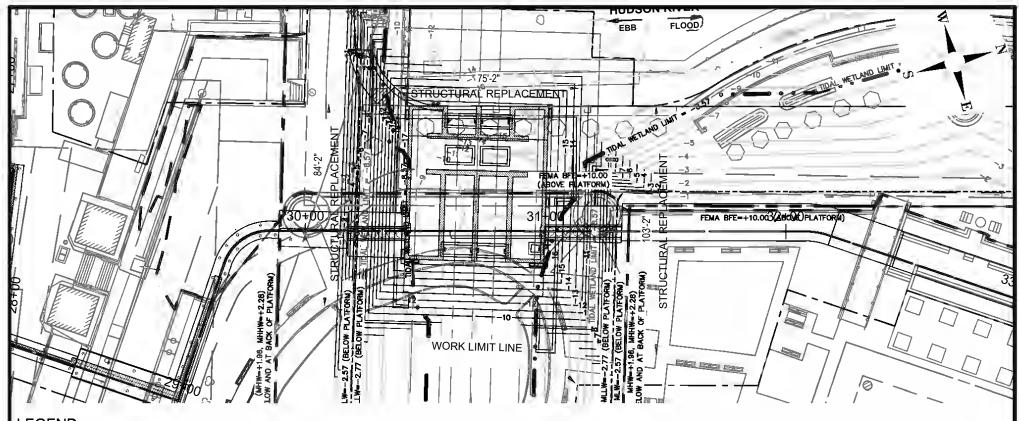
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

PROPOSED PLAN AREA 7 - REACH 5 40

DECEMBER 2024

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LEGEND:

FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY

FEMA BASE FLOOD ELEVATION

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW) MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

EXISTING MUDLINE

FUTURE MUDLINE

CURRENT TIDAL WETLAND LIMITS

DREDGING AREA AND TIDAL WETLANDS (-6) OVERLAP

42" DIA. O-PILE SHEETPILING PROPOSED MICROPILE

REACH 5 AREA 7 - DREDGING - TIDAL WETLAND "AREA "VOLUME	SOUTH BRIDGING STRUCTURE	12,604	1,964
"AREA "VOLUME			
	REACH 5 AREA 7 - DRED	GING - TIDAL WF	TLAND

LOCATION

SOUTH BRIDGING STRUCTURE

REACH 5 AREA 7 - DREDGING - OPEN WATER

"AREA

5,624

"VOLUME

(CY)"

652

NOTES:

000

- REFER TO NYCDOT STANDARD DETAILS OF CONSTRUCTION FOR CONCRETE PAVEMENT, ASPHALT PAVEMENT, SIDEWALK AND OTHER SURFACE RESTORATION DETAILS.
- 2. IN WATER WORK 365 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 3. IN WATER WORK 1016 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

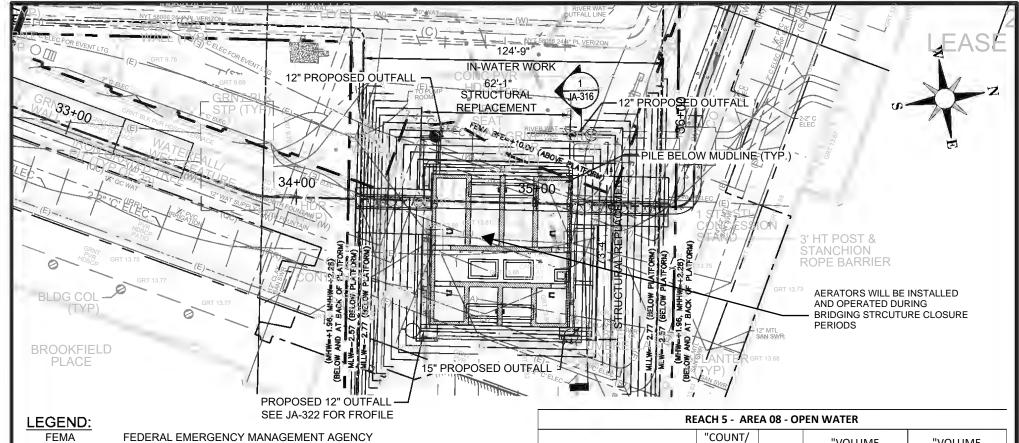


BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK

PROPOSED DREDGING PLAN SOUTH BRIDGING STRUCTURE AREA 7 - REACH 5

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FEMA BASE FLOOD ELEVATION

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

TIDAL WETLAND LIMITS

REACH C NAVIGATIONAL CHANNEL LIMITS

42" DIA. O-PILE SHEETPILING

PROPOSED MICROPILE

DRILLED SHAFT PILES

NOTES:

- 1. REFER TO NYCDOT STANDARD DETAILS OF CONSTRUCTION FOR CONCRETE PAVEMENT, ASPHALT PAVEMENT, SIDEWALK AND OTHER SURFACE RESTORATION DETAILS.
- 2. IN WATER WORK 462 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 3. IN WATER WORK 1073 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

REACH 5 - AREA 08 - OPEN WATER					
SIZE	"COUNT/ LINEAR FEET (LF)(')"	"AREA (SF)"	"VOLUME (MHHW-MUDLINE) (CY)"	"VOLUME (MHW-MUDLINE) (CY)"	
42" O-PILE SHEETPILING	69 LF	127	45	43	
NORTH BRIDGING STRUCTURE		3630	1607	1564	
PLATFORM RECONSTRUCTION		2035			

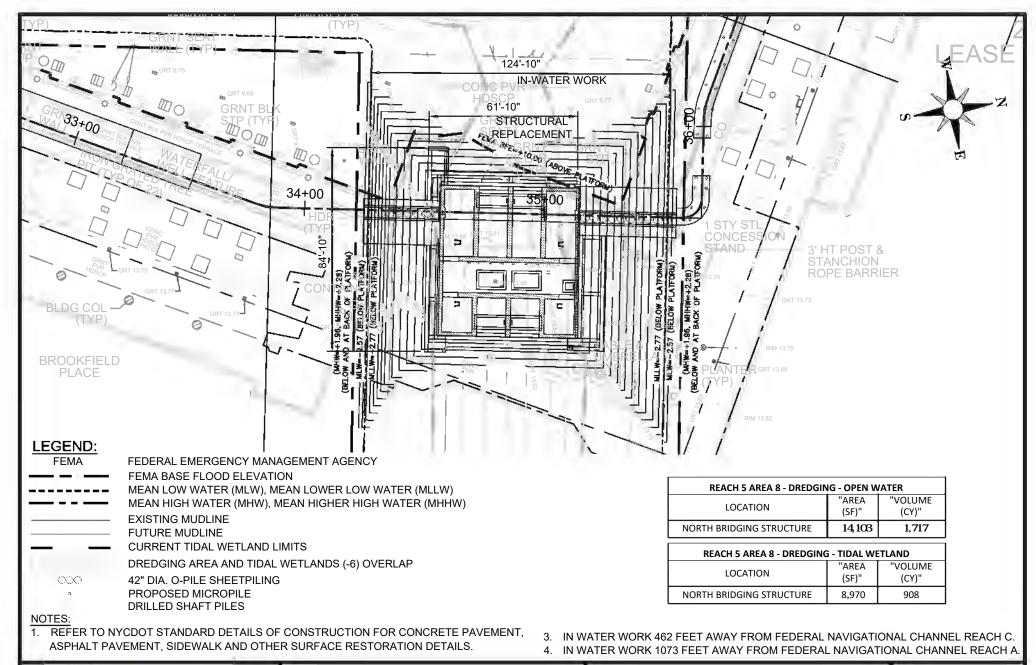
REACH 5 - AREA 08 - IIDAL WEILANDS					
SIZE	"COUNT/ LINEAR FEET (LF)(')"	"AREA (SF)"	"VOLUME (MHW-TIDAL WETLAND) (CY)"		
42" O-PILE SHEETPILING	69 LF	127	43		



BATTERY PARK CITY AUTHORITY
NORTH / WEST BATTERY PARK CITY RESILIENCY
HUDSON RIVER
BOROUGH OF MANHATTAN, NEW YORK

PROPOSED PLAN
AREA 8 - REACH 5
0 40 80
Feet

DECEMBER 2024 DWG: JA-108 Page 46 of 72



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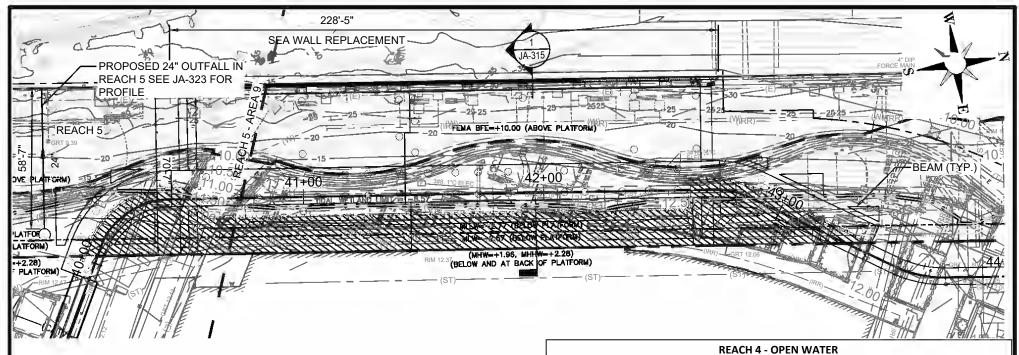
BATTERY PARK CITY AUTHORITY
NORTH / WEST BATTERY PARK CITY RESILIENCY
HUDSON RIVER
BOROUGH OF MANHATTAN, NEW YORK

PROPOSED DREDGING PLAN NORTH BRIDGING STRUCTURE AREA 8 - REACH 5 40 DECEMBER 2024

DWG: JA-108B

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Feet



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FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY

FEMA BASE FLOOD ELEVATION

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW) MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

TIDAL WETLAND LIMITS

PROPOSED IN-WATER LOW PERMEABILITY CLEAN FILL

36" DIA. DRILLED SHAFT 36" DIA. O-PILE SHEETPILING

PROPOSED MICROPILE

NOTES:

- REFER TO NYCDOT STANDARD DETAILS OF CONSTRUCTION FOR CONCRETE PAVEMENT, ASPHALT PAVEMENT, SIDEWALK AND OTHER SURFACE RESTORATION DETAILS.
- 2. AT REACH 6, A RELIEVING PLATFORM IS DESIGNED TO BE CONSTRUCTED AT AN ELEVATION HIGHER THAN THE EXISTING RELIEVING PLATFORM AND ABOVE MHW AND MHHW.
- 3. IN WATER WORK 2 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 4. IN WATER WORK 572 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.

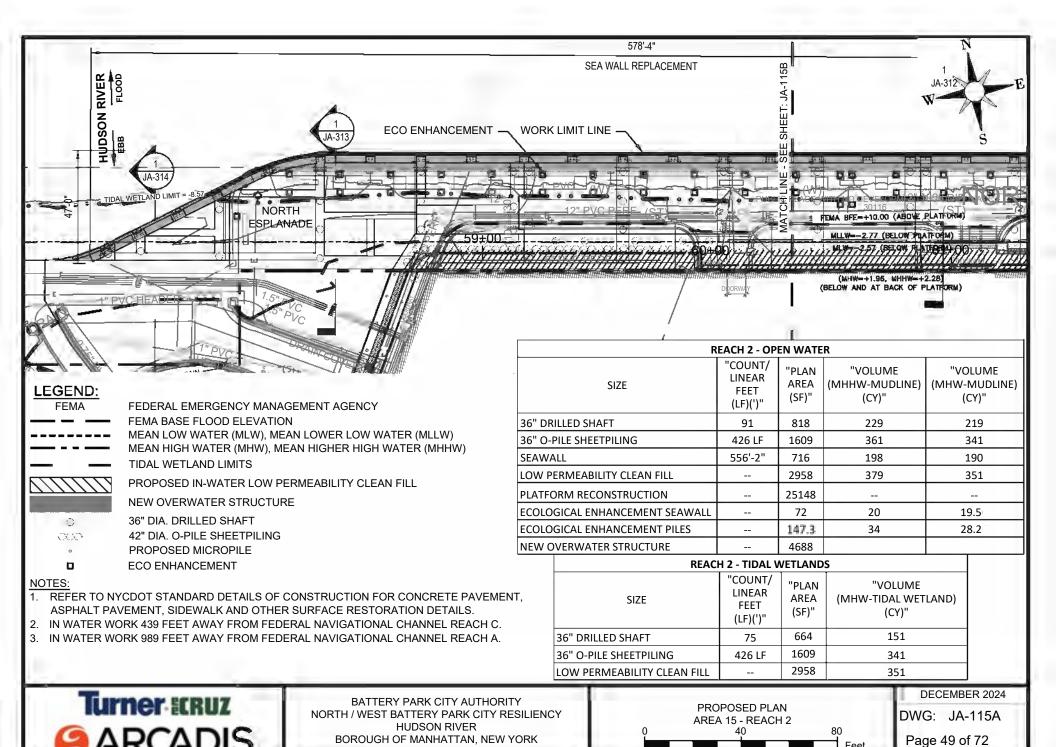
REACH 4 - OPEN WATER						
SIZE	" COUNT/ LINEAR FEET (LF)(')"	"PLAN AREA (SF)"	"VOLUME (MHHW-MUDLINE) (CY)"	"VOLUME (MHW-MUDLINE) (CY)"		
36" DRILLED SHAFT	79	669	369	360		
SEAWALL	229 LF	306	81	77		
36" O-PILE SHEETPILING	352 LF	764	187	178		
LOW PERMEABILITY CLEAN FILL		5213	1143	1091		
PLATFORM RECONSTRUCTION		16187				
ECOLOGICAL ENHANCEMENT SEAWALL		28.5	8	7.7		

REACH 4 - TIDAL WETLANDS						
SIZE	"COUNT/ LINEAR FEET (LF)(')"	"PLAN AREA (SF)"	"VOLUME (MHW-TIDAL WETLAND) (CY)"			
36" DRILLED SHAFT	10	98	21			
36" O-PILE SHEETPILING	202 LF	424	104			
LOW PERMEABILITY CLEAN FILL		4905	1026			

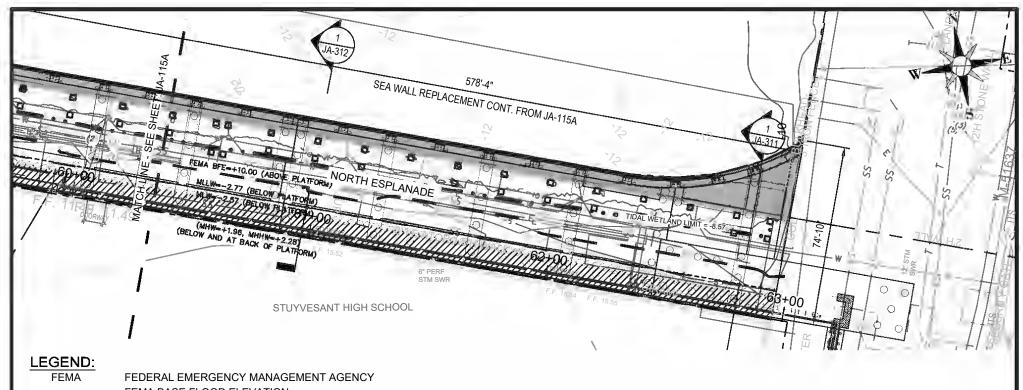


BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK PROPOSED PLAN
AREA 10 - REACH 4

0 40 80
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Feet



FEMA BASE FLOOD ELEVATION

MEAN LOW WATER (MLW), MEAN LOWER LOW WATER (MLLW)

MEAN HIGH WATER (MHW), MEAN HIGHER HIGH WATER (MHHW)

TIDAL WETLAND LIMITS

NEW OVERWATER STRUCTURE

36" DIA. DRILLED SHAFT

42" DIA. O-PILE SHEETPILING PROPOSED MICROPILE

ECO ENHANCEMENT

NOTES:

 \bigcirc C(X,Y)

1. REFER TO NYCDOT STANDARD DETAILS OF CONSTRUCTION FOR CONCRETE PAVEMENT, ASPHALT PAVEMENT, SIDEWALK AND OTHER SURFACE RESTORATION DETAILS.

PROPOSED IN-WATER LOW PERMEABILITY CLEAN FILL

- 2. IN WATER WORK 439 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH C.
- 3. IN WATER WORK 989 FEET AWAY FROM FEDERAL NAVIGATIONAL CHANNEL REACH A.
- 4. SEE JA-115A FOR REACH 2 TABLES.



BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK



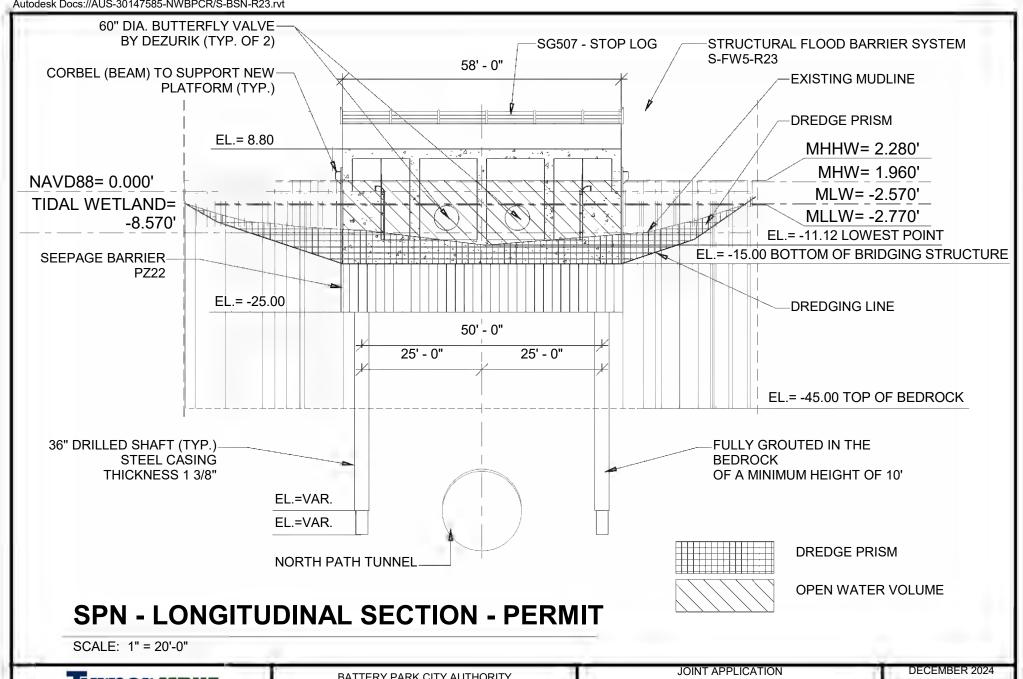
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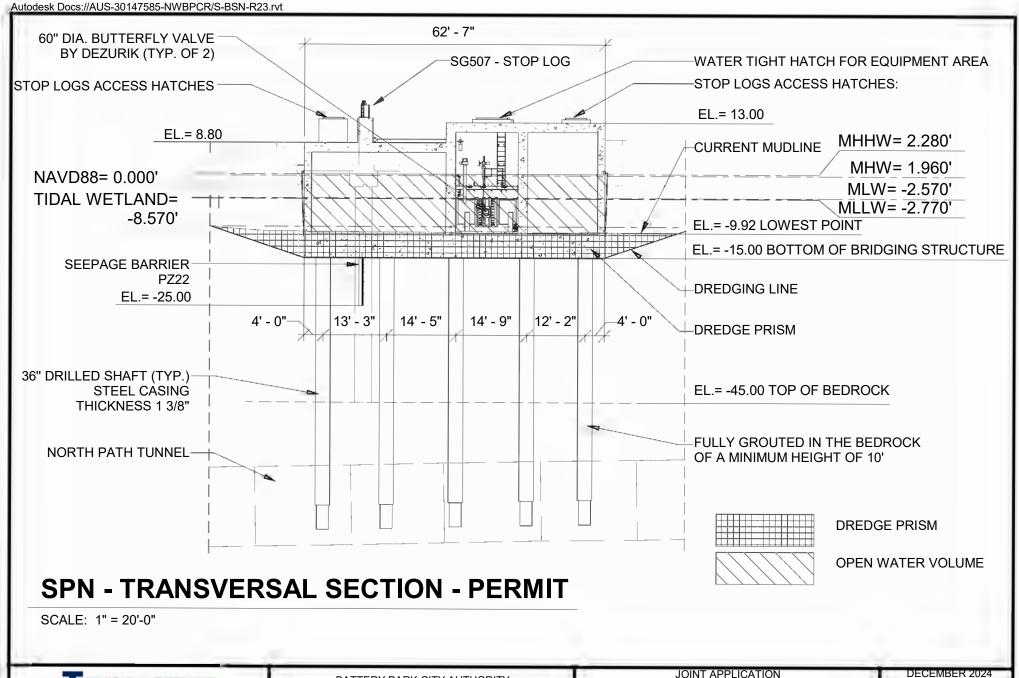
BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN. NEW YORK

PROPOSED LONGITUDINAL SECTION -NORTH BRIDGING STRUCTURE - REACH 5 SCALE: As indicated

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BATTERY PARK CITY AUTHORITY
NORTH / WEST BATTERY PARK CITY RESILIENCY
HUDSON RIVER
BOROUGH OF MANHATTAN, NEW YORK

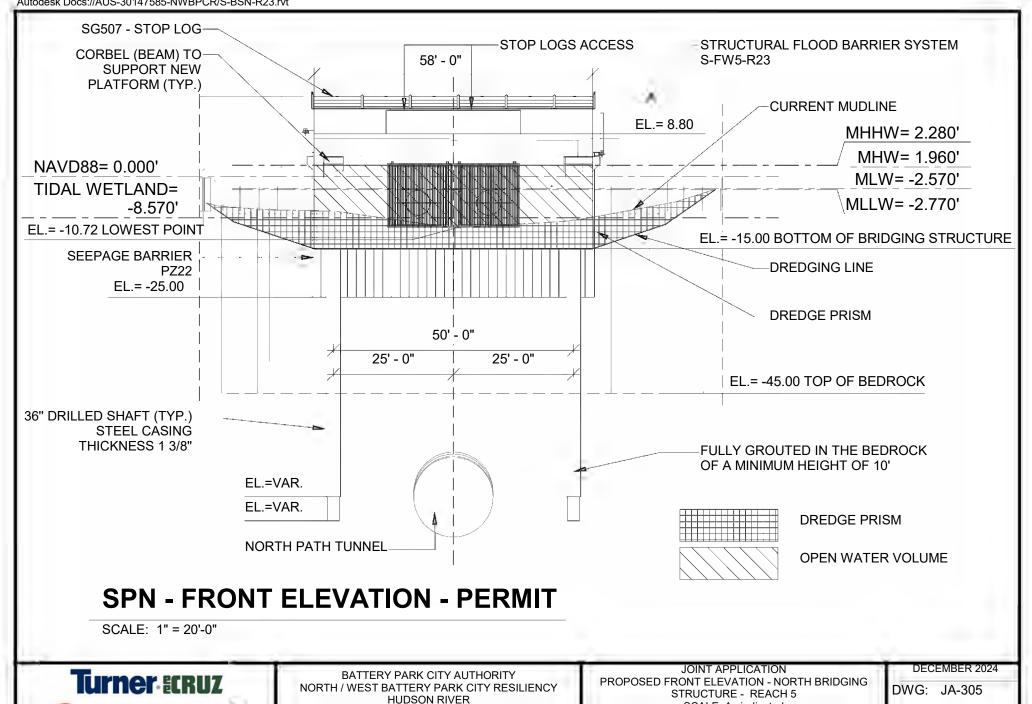
PROPOSED TRANSVERSAL SECTION - NORTH BRIDGING STRUCTURE - REACH 5 SCALE: As indicated

DECEMBER 2024 DWG: JA-304

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BOROUGH OF MANHATTAN. NEW YORK

SCALE: As indicated

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12/3/2024 3:15:05 PM Autodesk Docs://AUS-30147585-NWBPCR/S-BSN-R23.rvt 62' - 7" SG507 - STOP LOG STOP LOGS ACCESS -WATER TIGHT HATCH FOR EQUIPMENT AREA CORBEL (BEAM) TO-STOP LOGS ACCESS SUPPORT NEW PLATFORM (TYP.) EL.= 13.00 CURRENT MUDLINE EL.= 8.80 MHHW= 2.280' MHW= 1.960' NAVD88= 0.000' MLW= -2.570' TIDAL WETLAND= MLLW= -2.770' -8.570' EL.= -8.75 LOWEST POINT EL.= -15.00 BOTTOM OF BRIDGING STRUCTURE SEEPAGE BARRIER PZ22 DREDGING LINE EL.= -25.00 DREDGE PRISM 5' - 3"-12' - 0" 18' - 2" 12' - 4" 10' - 10" EL.= -45.00 TOP OF BEDROCK 36" DRILLED SHAFT (TYP.)-STEEL CASING THICKNESS 1 3/8" FULLY GROUTED IN THE BEDROCK OF A MINIMUM HEIGHT OF 10' NORTH PATH TUNNEL DREDGE PRISM SPN - SIDE ELEVATION - PERMIT **OPEN WATER VOLUME** SCALE: 1" = 20'-0" JOINT APPLICATION BATTERY PARK CITY AUTHORITY PROPOSED SIDE ELEVATION - NORTH BRIDGING NORTH / WEST BATTERY PARK CITY RESILIENCY

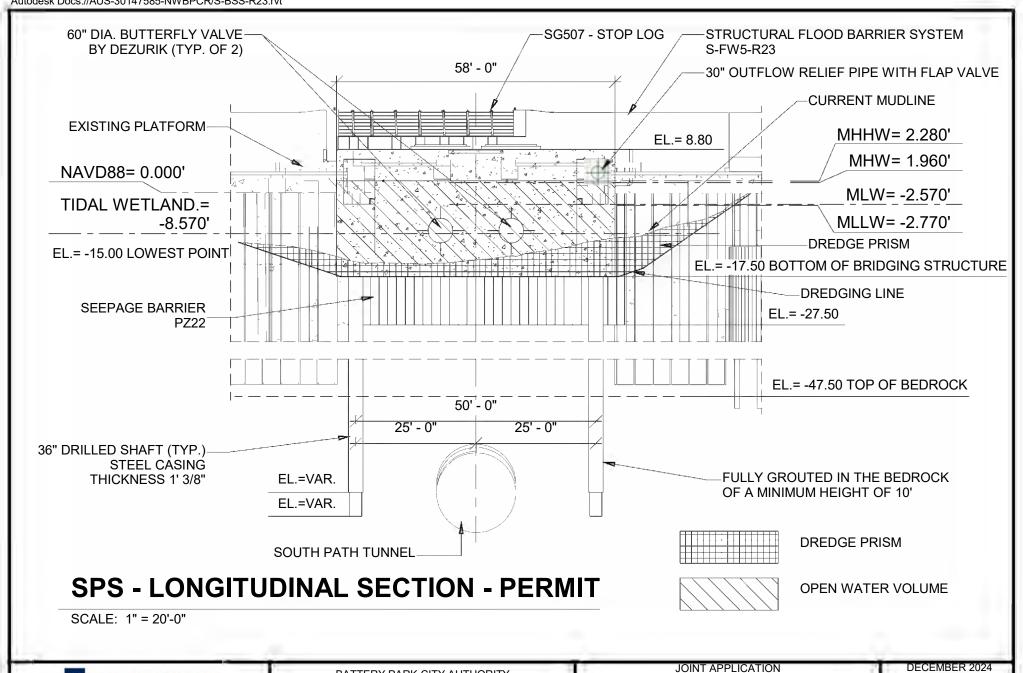


HUDSON RIVER BOROUGH OF MANHATTAN. NEW YORK STRUCTURE - REACH 5 SCALE: As indicated

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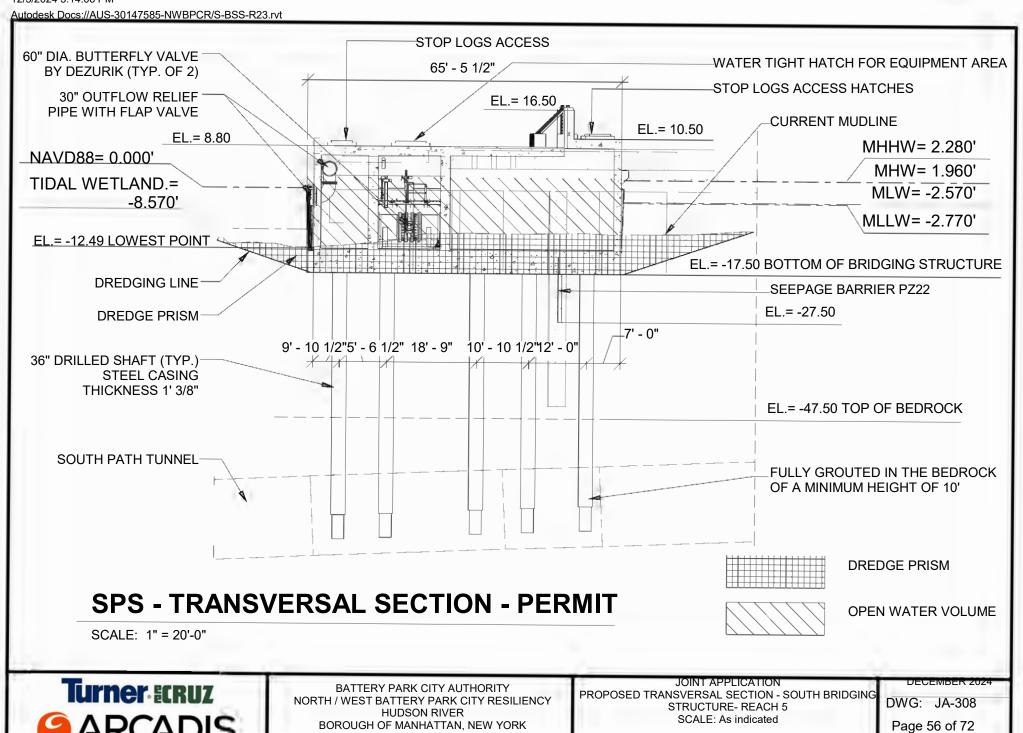




BATTERY PARK CITY AUTHORITY NORTH / WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK JOINT APPLICATION
PROPOSED LONGITUDINAL SECTION - SOUTH BRIDGING
STRUCTURE - REACH 5
SCALE: As indicated

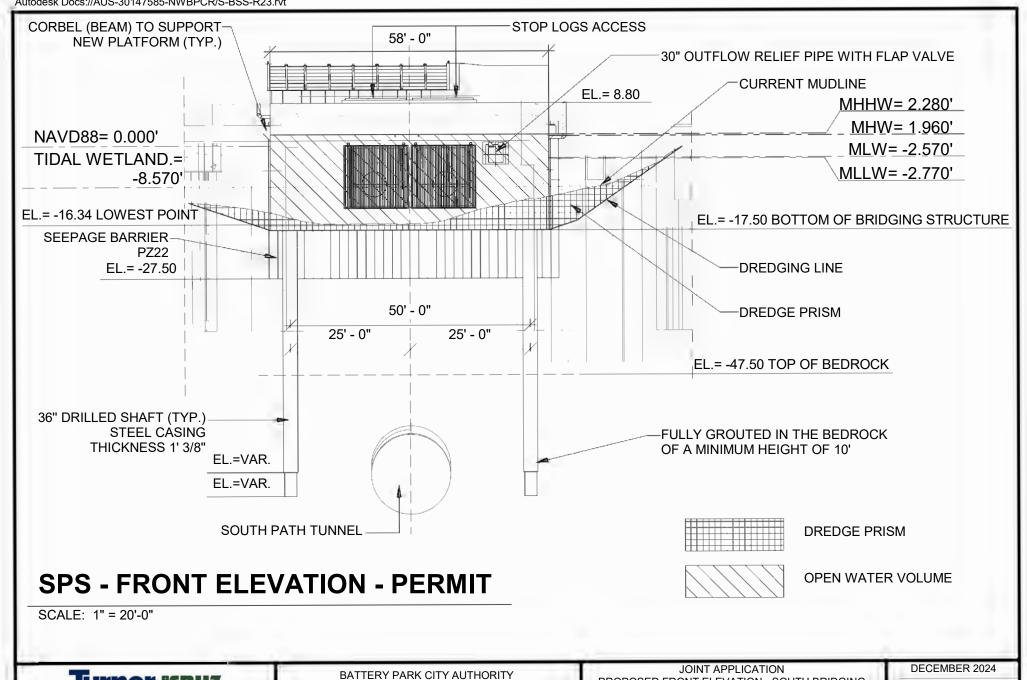
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NORTH / WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN. NEW YORK

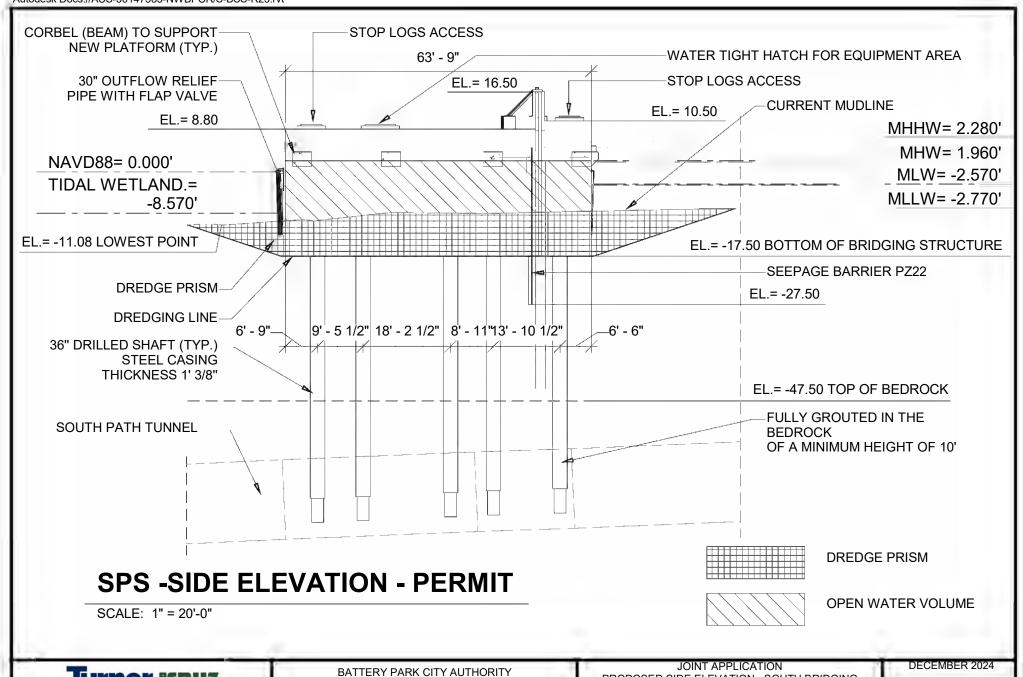
PROPOSED FRONT ELEVATION - SOUTH BRIDGING STRUCTURE - REACH 5 SCALE: As indicated

DWG: JA-309

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BATTERY PARK CITY AUTHORITY
NORTH / WEST BATTERY PARK CITY RESILIENCY
HUDSON RIVER
BOROUGH OF MANHATTAN, NEW YORK

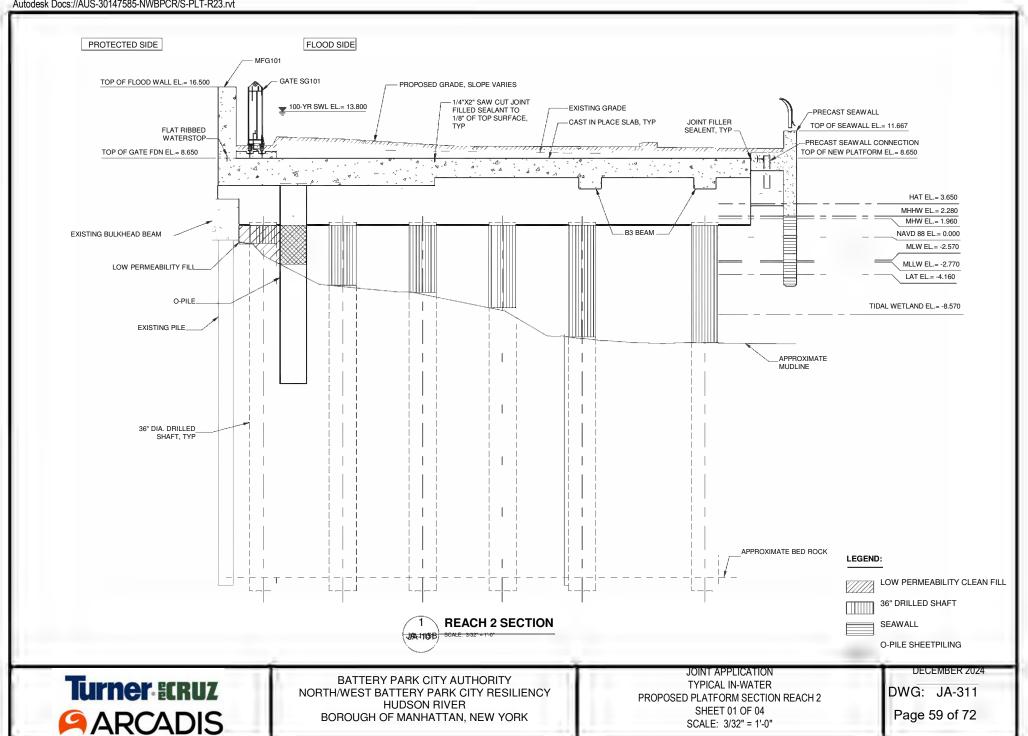
PROPOSED SIDE ELEVATION - SOUTH BRIDGING
STRUCTURE- REACH 5
SCALE: As indicated

DWG: JA-310

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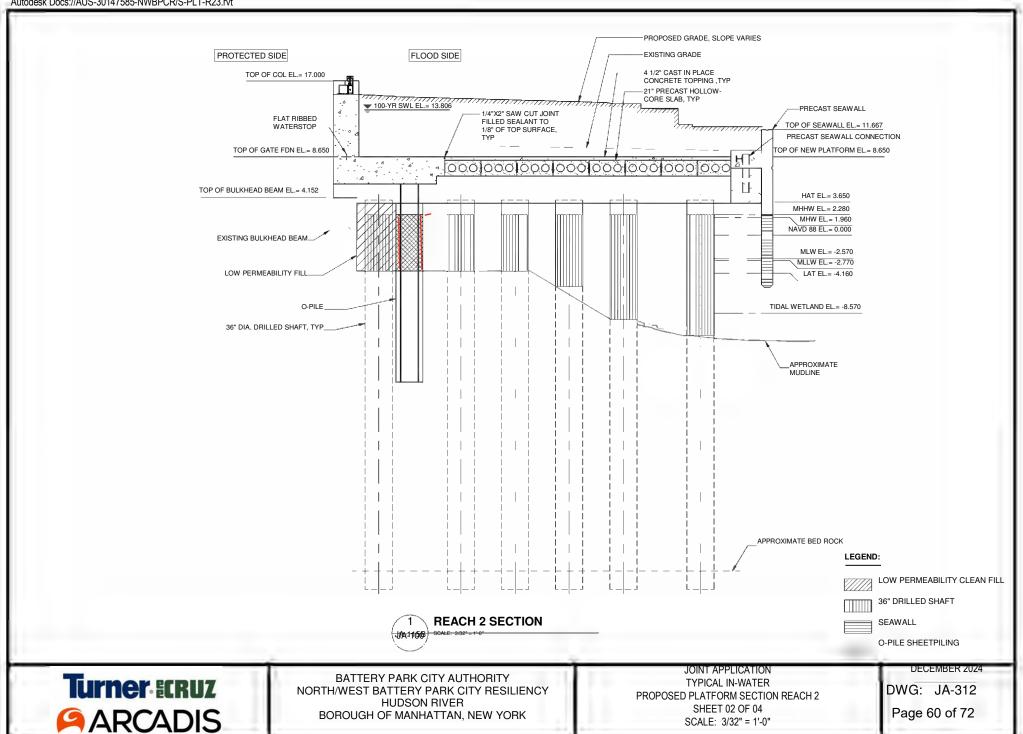
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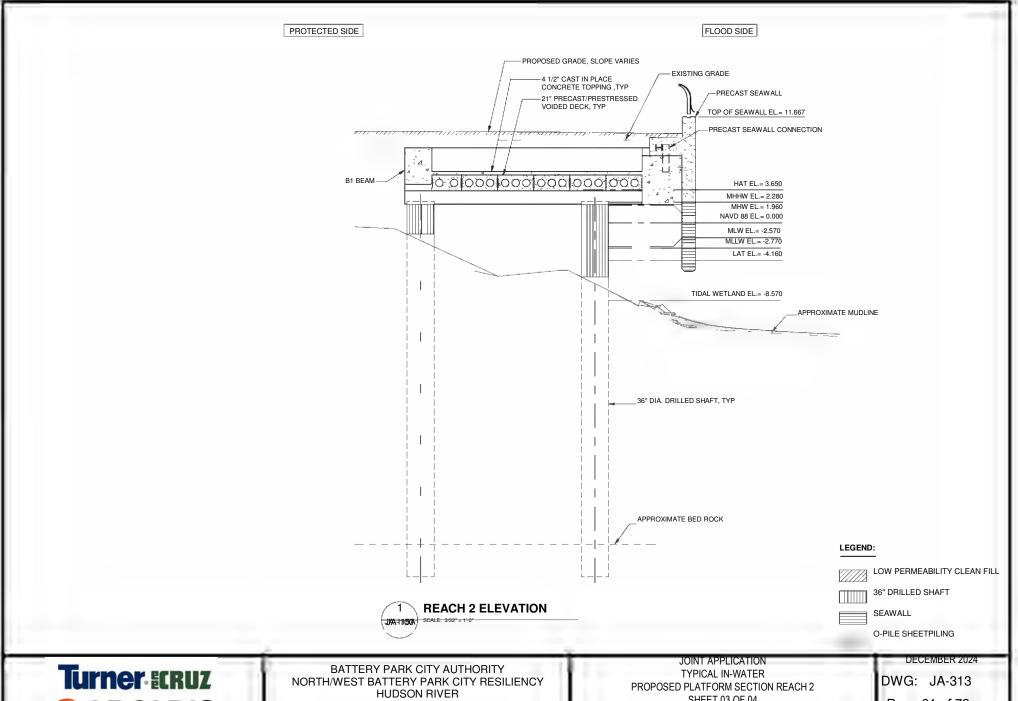
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SCALE: 3/32" = 1'-0"

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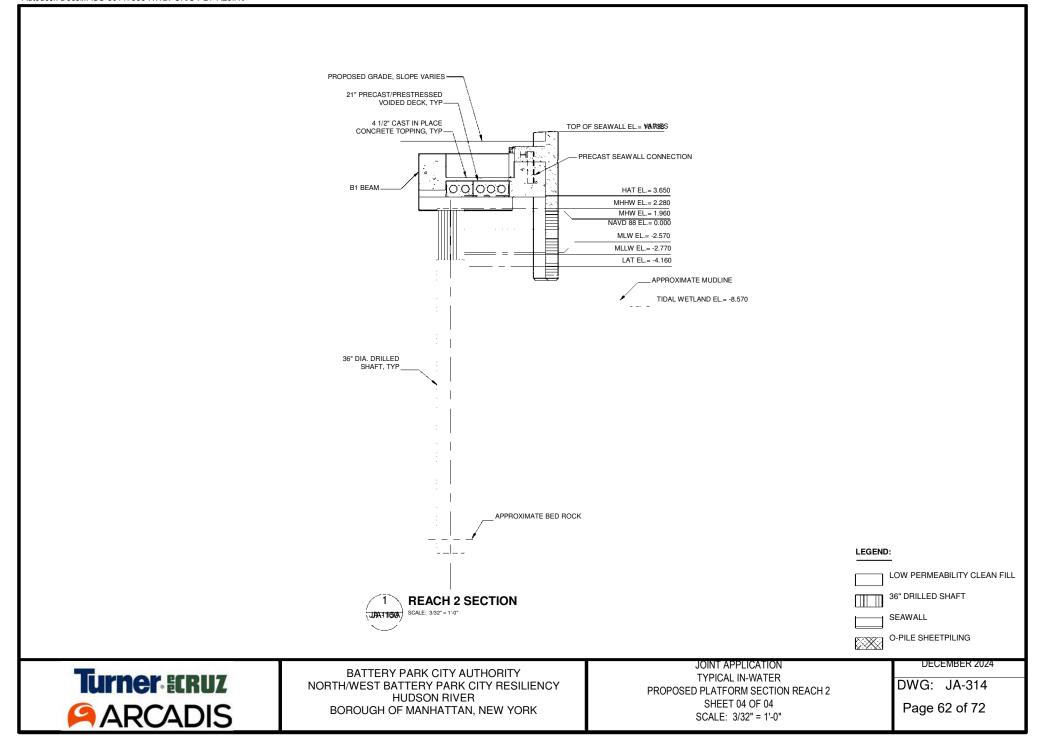
BOROUGH OF MANHATTAN, NEW YORK

SHEET 03 OF 04 SCALE: 3/32" = 1'-0"

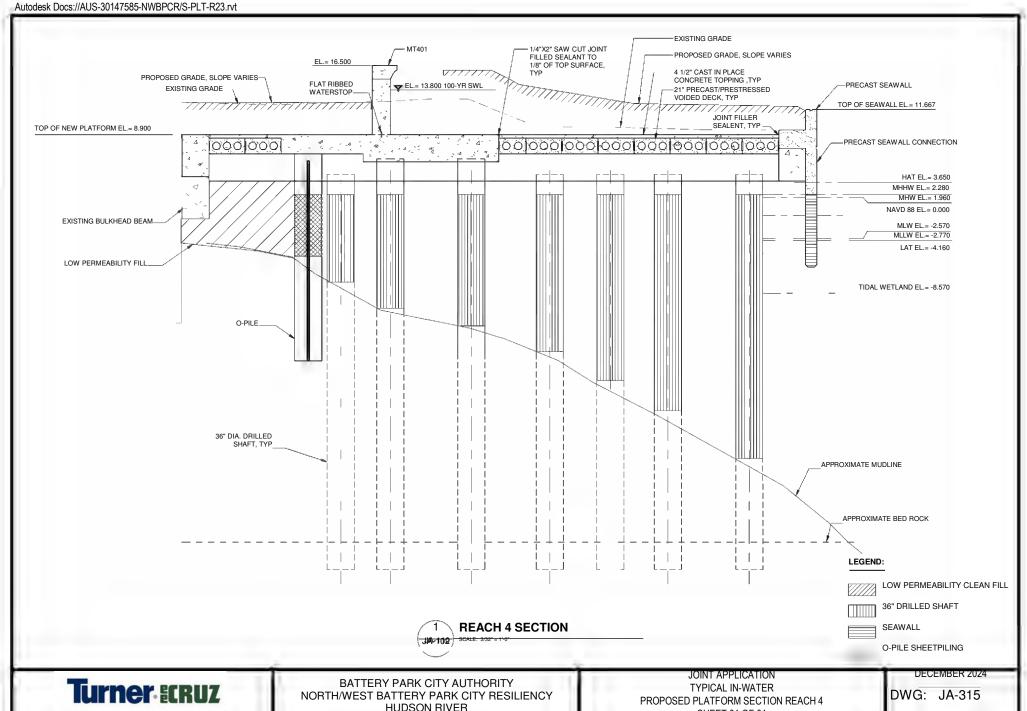
Page 61 of 72

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HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK

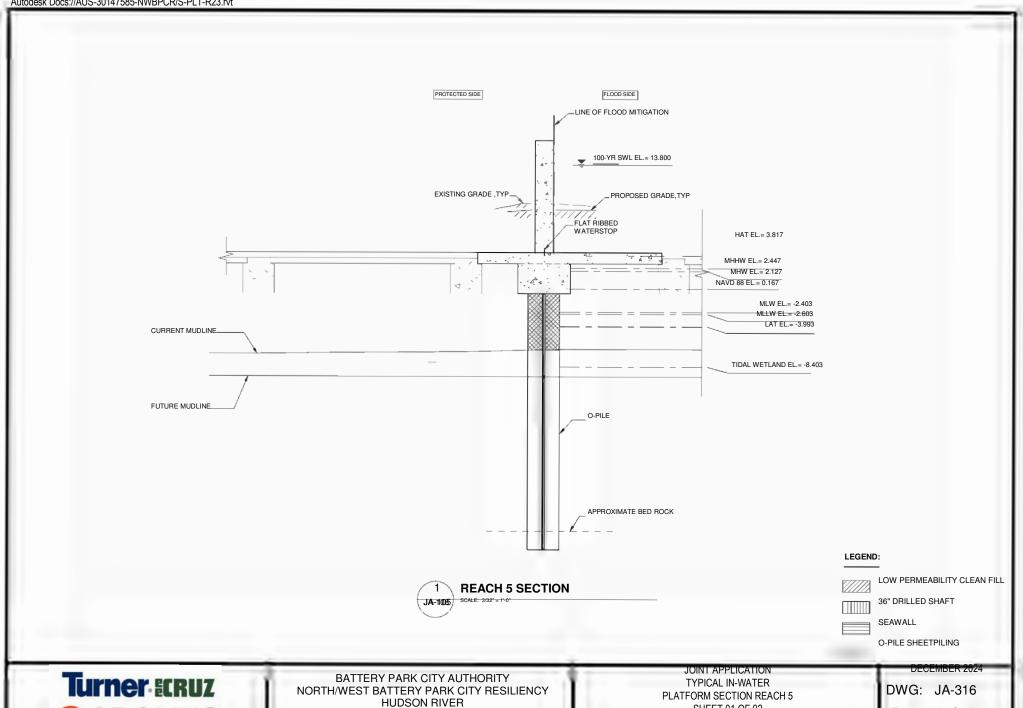
SHEET 01 OF 01 SCALE: 3/32" = 1'-0"

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BOROUGH OF MANHATTAN, NEW YORK

SHEET 01 OF 02

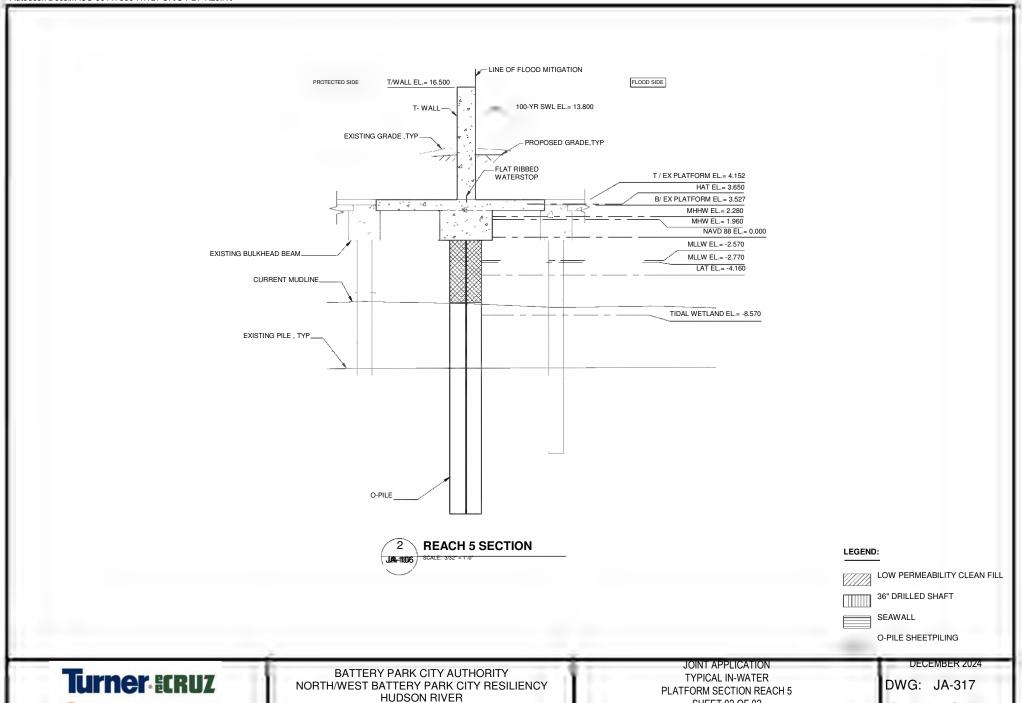
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ARCADIS

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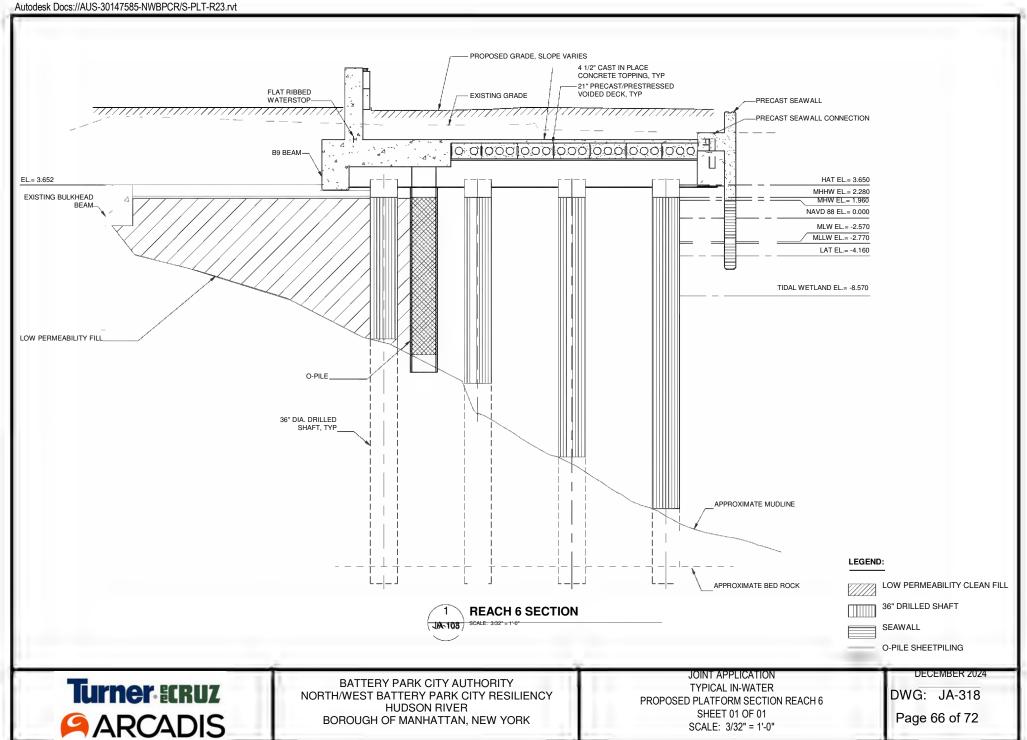
BOROUGH OF MANHATTAN, NEW YORK

SHEET 02 OF 02

SCALE: 3/32" = 1'-0"

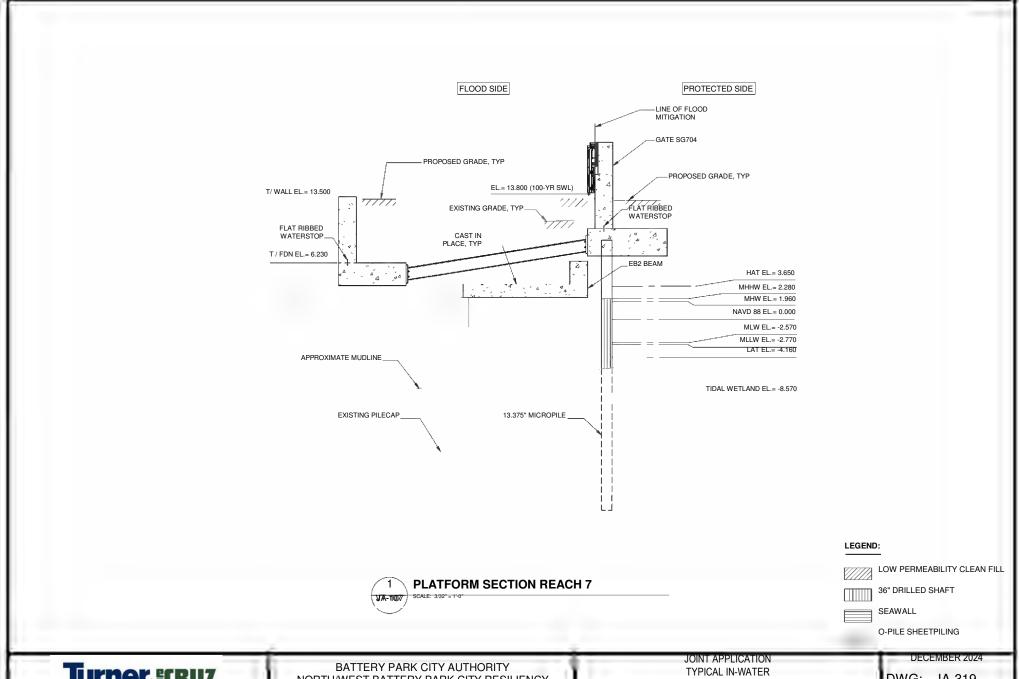
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NORTH/WEST BATTERY PARK CITY RESILIENCY **HUDSON RIVER** BOROUGH OF MANHATTAN, NEW YORK

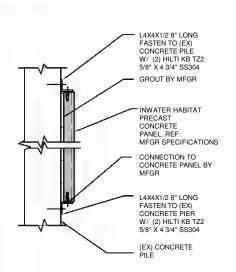
PLATFORM SECTION REACH 7 SHEET 01 OF 01 SCALE: 3/32" = 1'-0"

DWG: JA-319

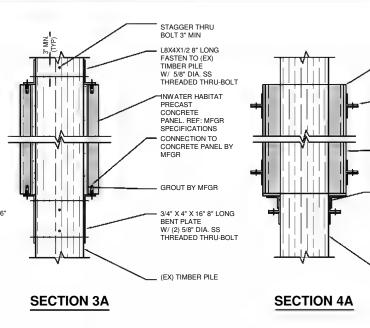
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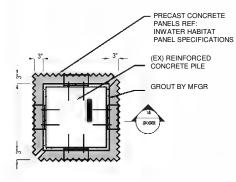
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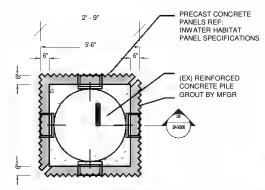


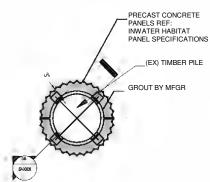
L4X4X1/2 8" LONG FASTEN TO (EX) CONCRETE PILÉ W/ (2) HILTI KB TZ2 5/8" X 4 3/4" SS304 GROUT BY MFGR INWATER HABITAT PRECAST CONCRETE PANEL. REF MFGRSPECIFICATIONS CONNECTION TO CONCRETE PANEL BY 3/4" X 4" X 12" 8" LONG BENT PLATE FASTEN TO (EX) CONCRETE PIER W/ (2) HILTI HAS-V-316 SS 1"X16" BOLTS IN HILTI RE 500 V3 MIN. EMBED 13 3/4" 3/4" STIFFENER PLATE (EX) CONCRETE **SECTION 2A**

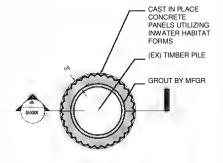


SECTION 1A









INWATER HABITAT PRECAST RECTANGULAR REINFORCED CONCRETE



INWATER HABITAT PRECAST CIRCULAR REINFORCED CONCRETE PILE



INWATER HABITAT PRECAST TIMBER PILE THROUGH BOLT



INWATER HABITAT CAST TIMBER PILE FORMWORK CLAMP





BATTERY PARK CITY AUTHORITY NORTH/WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK JOINT APPLICATION
TYPICAL INWATER
HABITAT DETAILS
SHEET 01 OF 01
SCALE: 3/8" = 1'-0"

DWG: JA-320

INWATER HABITAT

FORM WORK REF:

INWATER HABITAT

FORM CLAMPS BY

TIMBER FORM WORK

AFTER CONCRETE IS

SET REF: INHABITAT

TO BE REMOVED

SPECIFICATION

FORM CLAMPS BY

(EX) TIMBER PILE

MFGR

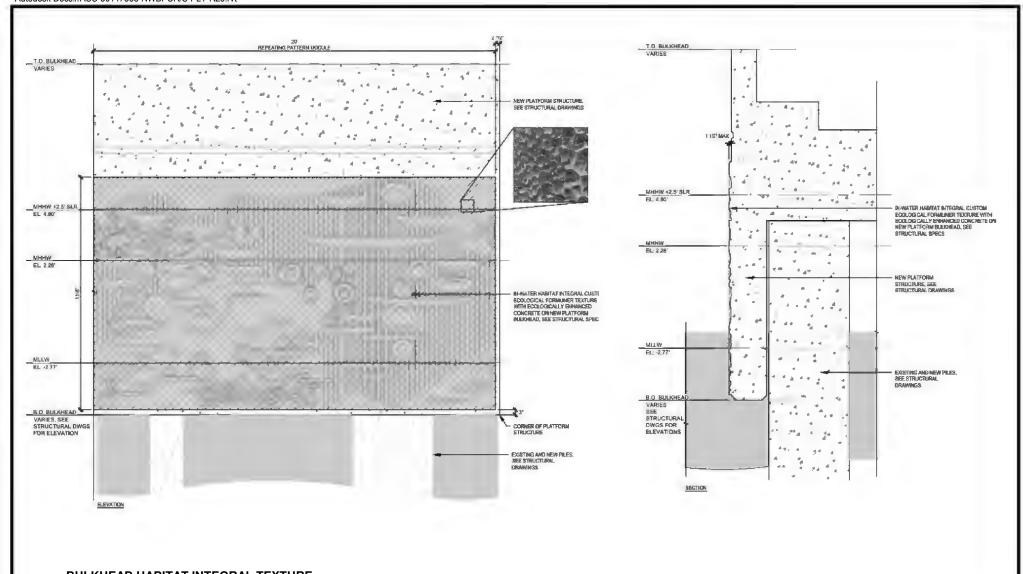
MFGR

SPECIFICATIONS

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SCALE: 1" = 40'-0



BATTERY PARK CITY AUTHORITY NORTH/WEST BATTERY PARK CITY RESILIENCY HUDSON RIVER BOROUGH OF MANHATTAN, NEW YORK JOINT APPLICATION TYPICAL IN-WATER HABITAT DETAILS SHEET 02 OF 02 SCALE: 1" = 40'-0" DECEMBER 2024
DWG: JA-320A

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