



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-2021-00516-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: River Street Partners, LLC
45 Main Street
Brooklyn, New York 11201

ACTIVITY: Construction of a Public Waterfront Park referred to as "River Ring"

WATERWAY: East River

LOCATION: 87 & 105 River Street, Borough of Brooklyn, Kings 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 REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

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 no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

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. 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

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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, River Street Partners, LLC, has requested Department of the Army (DA) authorization for the construction of a public access waterfront park in conjunction with upland development in the East River at 87 & 105 River Street, Borough of Brooklyn, Kings County, City of New York, New York.

The proposed work would involve the following:

Removal:

Remove all of the existing pile supported waterfront structures, including but not limited to the existing wharves, aprons, fendering system, fixed piers, walkways, catwalks, and platforms, totaling approximately 20,938 square feet. All piles would be removed or cut at the mudline, and the existing southernmost caisson (approximately 805 square feet) would be removed. Approximately 600 linear feet of existing steel sheet pile bulkhead and timber closure wall behind the existing wharf along the south side of the project area, and approximately 674 cubic yards of debris from the former North 3rd Street Pier would also be removed.

Caisson Maintenance:

The three (3) existing caissons would be encased with an approximately six-inch Fiber-Reinforced Polymer (FRP) Jacket and filled with approximately 245 cubic yards of flowable grout below the plane of Spring High Water (SHW) over approximately 194 square feet.

Southern Breakwater Platform:

Along the south side of the project area, the existing wharf structure would be removed including the closure wall. A new approximately 457 linear foot bulkhead would be installed approximately 12 feet landward of the existing closure wall, and approximately 6,076 cubic yards of material would be excavated, creating approximately 3,144 square feet of open water.

Construct an approximately 34,832-square foot partially submerged, irregularly shaped, pile supported pre-cast concrete "tub" platform. The platform would be supported by approximately 176 30-inch diameter steel piles (Piles will be filled with about 479 cubic yards of concrete below SHW). The bottom of the pre-cast tubs would be set at elevation -6.0 feet NAVD88 for the eastern portion of the southern platform and elevation -9.0 feet NAVD88 for the western portion of the southern platform. The southern breakwater platform would have a minimum width of 37 ft. The top of the precast concrete tubs would be set at elevation -3.0 feet NAVD88. The platform would consist of EConcrete precast panels to support biological growth along the vertical surface. The platform would be filled with clean fill and geofoam to create a berm with a walkway on top. The side slopes of the berm would incorporate ecological armoring. In total, approximately 7,735 cubic yards of material including soil, geofoam and ecological armoring would be placed below the plane of SHW over approximately 20,513-square feet. The total height of the breakwater structures would reach approximately 10.0 feet NAVD88.

The eastern section of the southern platform constructed from the landward end of the replaced bulkhead would be approximately 12,090-square feet. A beach area (get-down) approximately 620-square feet would be created on top of the platform with an approximately 370-foot-long by 10-foot-wide cobble sill.

The western section of the southern breakwater structure would extend to the southernmost caisson measuring approximately 48-foot in diameter.

Western Platform Breakwater:

Along the west side of the project area, construct an approximately 17,335-square foot partially submerged, irregularly shaped, pile supported pre-cast concrete “tub” platform to create a western breakwater. The breakwater would incorporate the two (2) northern caissons into its structure. The platform would be supported by approximately 95 30-inch diameter steel piles (piles would be filled with about 259 cubic yards of concrete below SHW). The platform would consist of EConcrete precast panels to support biological growth along the vertical surface. The platform would be filled with clean fill and geofoam to create a berm with a walkway on top. A precast concrete box would be installed on top of the platform to support a portion of the walkway. Additional material including ecological paneling and modular walls would be installed on each side of the walkway. In total, approximately 4,912 cubic yards of material including soil, geofoam and ecological armoring would be placed below the plane of SHW over approximately 7,263-square feet. The bottom of the pre-cast tubs would be set at elevation -9.0 feet NAVD88 and would be a minimum of 26-feet wide. The top of the precast concrete tubs would be set at elevation -3.0 feet NAVD88. The total height of the breakwater structures would reach approximately 10.0 feet NAVD88.

Cove:

To create a new cove, excavate from the upland area landward of the current SHW approximately 12,989 cubic yards of historic fill material to create approximately 18,838 square feet of open waters. Within the cove, an approximately 8,440 square foot beach would be created along the northeastern side of which approximately 520 cubic yards of clean sand would be discharged below the plane of SHW over approximately 4,685 square feet. In front of the beach area and extending south, an approximately 12,473 square foot cobble sill would be constructed by placing approximately 462 cubic yards of riprap below the plane of SHW.

Groin:

Along the north side of the cove, approximately 2,474 cubic yards of clean material would be placed below the plane of SHW over approximately 6,803 square feet to create a soil fill and riprap groin along the northern portion of the “ring.”

Tidal Marsh & Pools:

Behind the northern-most portion of the southern platform and behind the cobble sill within the cove, establish an approximately 19,452 square foot tidal marsh with tidal pools by excavating 4,219 cubic yards of historic fill from below SHW. The tidal marsh would incorporate approximately 18,532 square feet of salt marsh and approximately 920 square feet of tidal pools. Approximately 457 cubic yards of clean fill would be placed below the plane of SHW as planting medium for the marsh. Approximately 11,893 square feet would be planted with *Spartina alterniflora* as low marsh; approximately 472 square feet would be planted with *Spartina patens* and *Distichlis spicata* as high marsh. Beyond the SHW, approximately 1,069 square feet would be planted with *Baccharis halimifolia*, *Iva frutescens*, *Panicum virgatum*, *Solidago sempervirens*, and *Juncus gerardii* as transitional upland salt tolerant zone and approximately 22,815 square feet would be planted with *Rhus copallinum*, *Rhus glabra*, *Rhus aromatica*, *Myrica pensylvanica*, *Schizachyrium scoparium*, *Andropogon gerardii*, *Panicum virgatum* and *Juncus tenuis* as coastal scrub shrub.

Walkways:

To connect the breakwaters and create a “ring,” open-grate walkways would be constructed between the two breakwaters, around the cove, and over the tidal marsh. The approximately 8'-foot-wide by 135-foot-long walkway between the breakwaters would connect the walkways atop the breakwaters. The approximately 14.5-foot-wide by 1,290-foot-long circular open-grate

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walkway would extend from the seaward end of the groin, connect with the eastern side of the western breakwater, continue circularly, split to connect with the southern platform and over the tidal marsh area, and continue to the upland. The approximately 14.5-foot-wide by 225-foot-long portion of the open-grate walkway that crosses over the tidal marsh has been designed to be located above the tidal pools to minimize coverage of tidal vegetation. In total, approximately 8,351 square feet of open-grate walkway would be installed over existing and created Waters of the United States.

Oysters:

Construct oyster reefs along the eastern sides of the breakwater structures, on the northwestern side of the southern platform, seaward of the tidal marsh, and on the southern side of the groin. Approximately 21,996 square feet of oyster reefs consisting of oyster cages and reef balls would be installed.

Submerged Aquatic Vegetation Pilot Program:

Approximately 389 cubic yards of sandy planting medium would be discharged below the plane of SHW over approximately 10,501 square feet and planted with *Zostera marina* to establish an eelgrass pilot program.

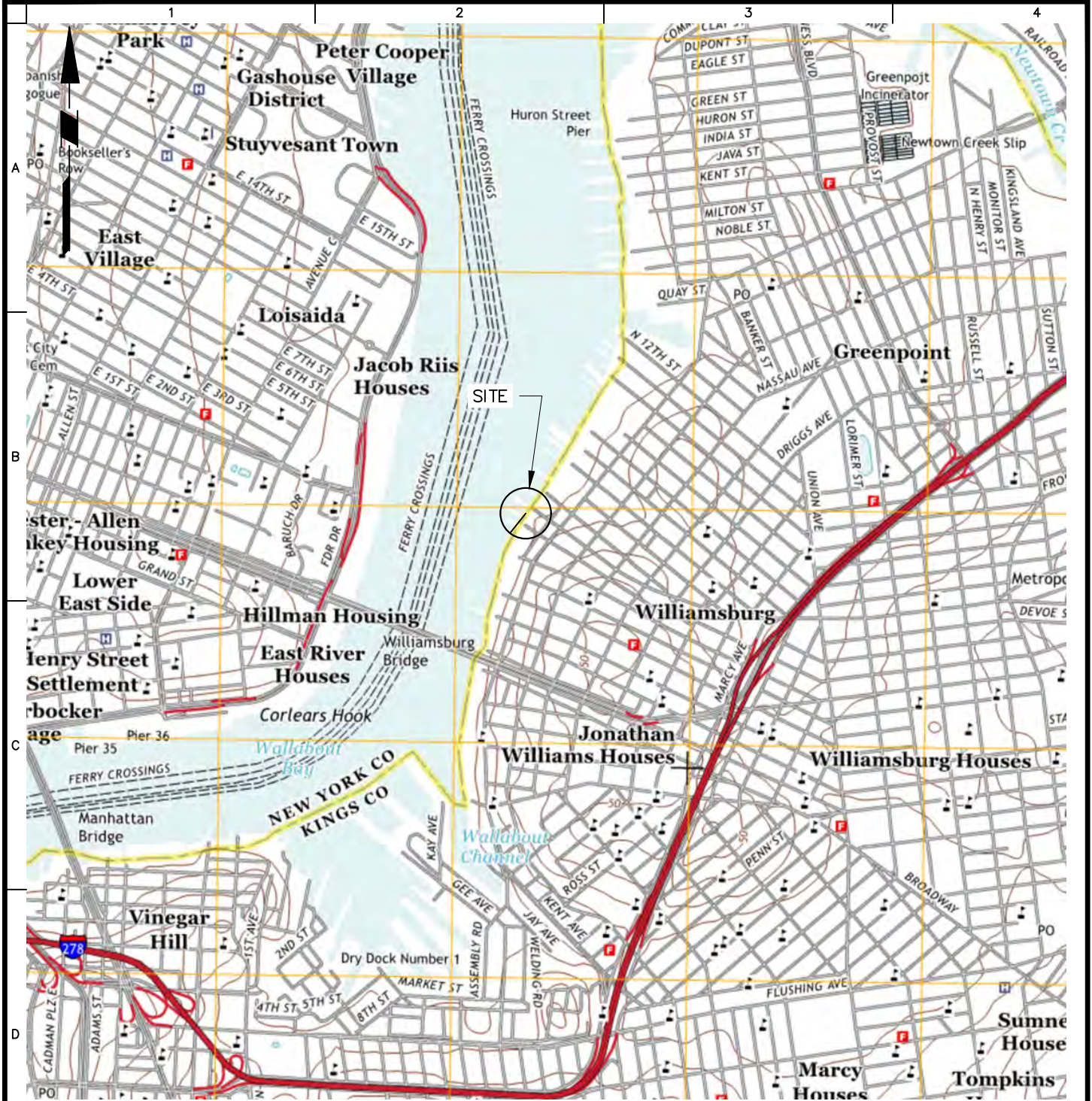
Outfalls:

The existing combined sewer outfall (CSO) would be relocated from Metropolitan Avenue to North 3rd Street north of the groin. Two (2) 24-inch diameter outfalls would be installed. One would be located on the north side of the cove, and the other would be located along the south side of the southern breakwater.

The applicant has stated that they have avoided, minimized, and mitigated for potential impacts proposed to the maximum extent practicable by utilizing Best Management Practices including but not limited to, utilizing a soft start and vibratory hammer, as practicable during pile driving and bulkhead installation and by using a turbidity curtain around the project area during in-water construction activities. The project will result in a net creation of open waters in addition to establishing tidal wetlands, oyster reef structures, and submerged aquatic vegetation within the project area.

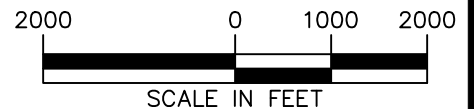
The applicant's stated purpose of the project is to expand public waterfront access along the East River north from Domino Park and the Grand Ferry Park esplanade, while enhancing and sustaining habitat and increasing the resilience of the site and upland areas, in a manner that recognizes the constraints imposed by the busy navigational waterway.

The regulated work is in conjunction with an upland residential development at the site, which is outside of the jurisdiction of this office.

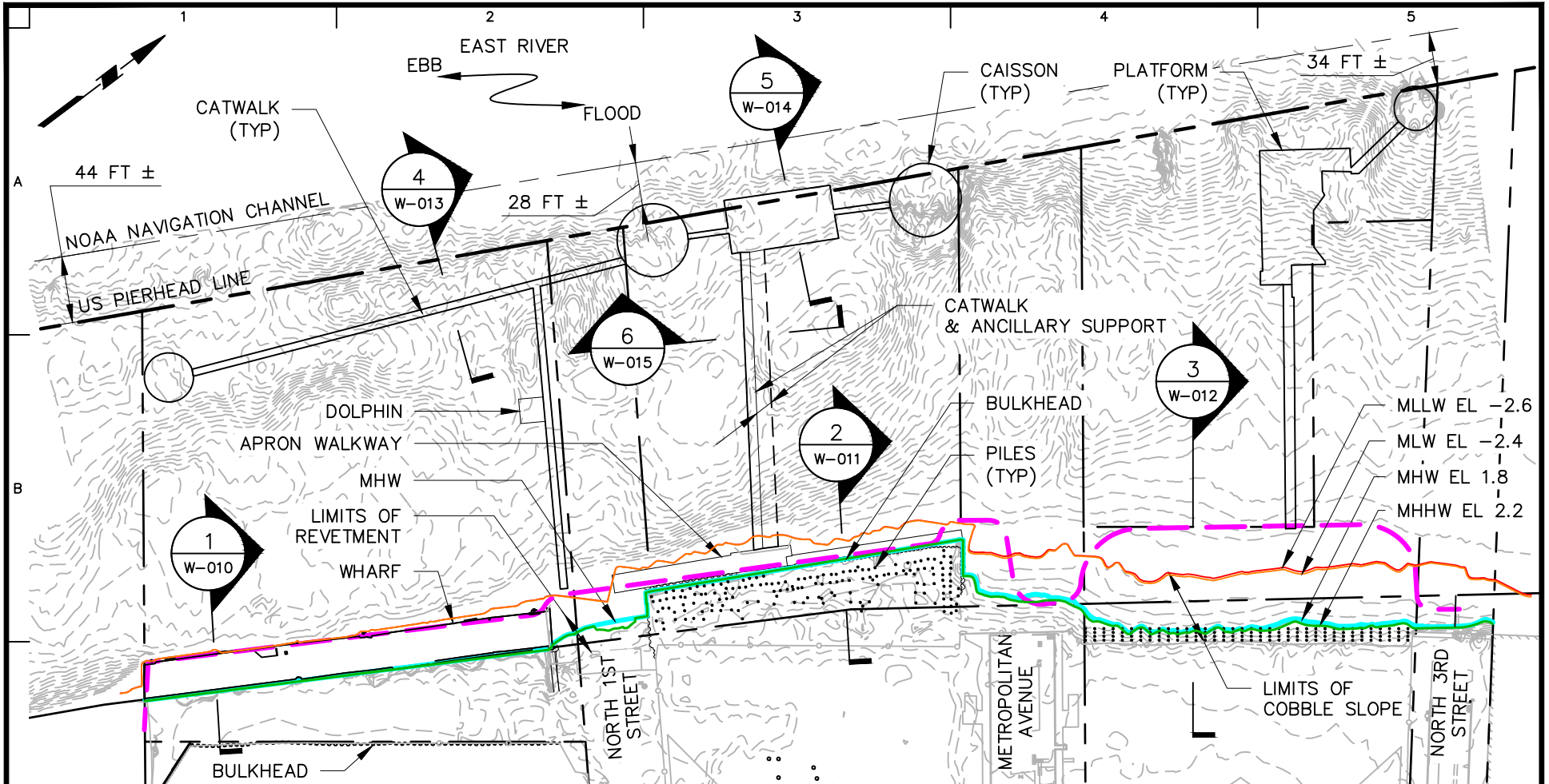


SOURCE: "BROOKLYN NEW YORK 7.5-MINUTE SERIES", U.S. GEOLOGICAL SURVEY, 2013

NOTE: ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).



<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	Project	Figure Title	Project No.	Figure No.
	RIVER RING	SITE VICINITY MAP	170594401	1
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Date 03/15/2021	
	KINGS NEW YORK		Drawn By KRW	
			Checked By KH	Sheet 1 of 11

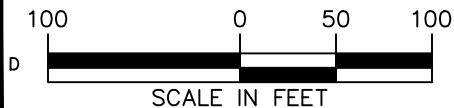


C NOTES:

1. BACKGROUND REFERENCED FROM "ALTA/NSPS LAND TITLE SURVEY, RIVER STREET & NORTH 1ST STREET", BY CONTROL POINT ASSOC. INC., REVISED 27 MARCH 2020.
2. 1974 TIDAL WETLAND BOUNDARY REFERENCED FROM "TIDAL WETLANDS MAP - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION - MAP 856-506, INDEX MAP NUMBER 1".
3. SHW IS EQUIVALENT TO MHHW AT THIS SITE.

LEGEND:

- 1974 TIDAL WETLAND BOUNDARY
- MEAN HIGHER HIGH WATER (MHHW)
- MEAN HIGH WATER (MHW)
- MEAN LOW WATER (MLW)
- MEAN LOWER LOW WATER (MLLW)



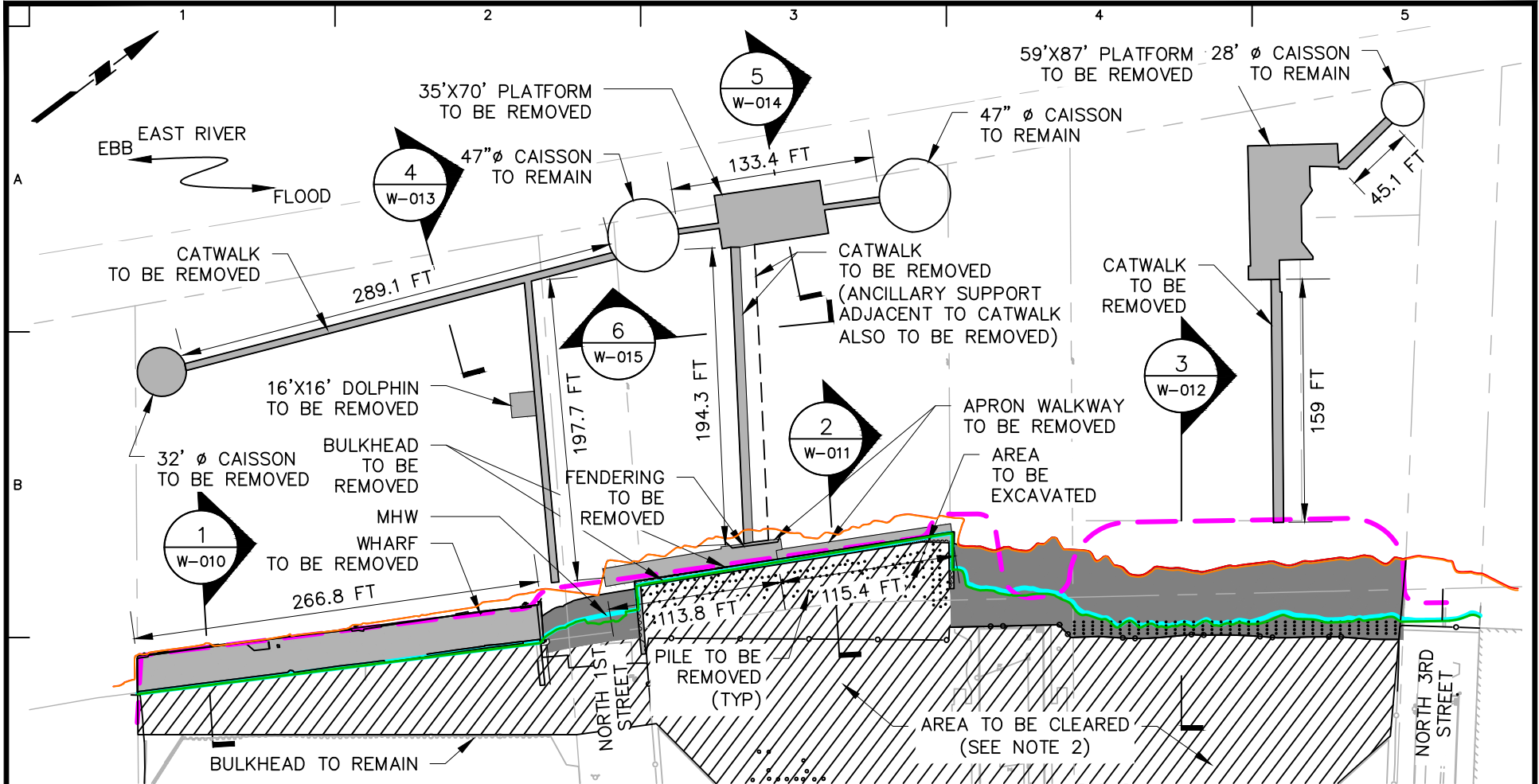
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Project
RIVER RING
 BLOCK No. 2355, LOT No. 1
 BLOCK No. 2361, LOT No. 1, 21
 BLOCK No. 2376, LOT No. 6, 50
 BROOKLYN
 KINGS NEW YORK

Drawing Title
EXISTING WATERFRONT STRUCTURES

Project No.
170594401
 Date
03/18/2022
 Drawn By
KRW
 Checked By
KH

Drawing No.
W-001
 Sheet 1 of 43

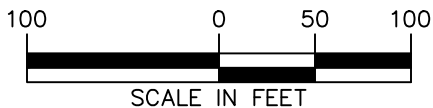


C NOTES:

1. BACKGROUND REFERENCED FROM "ALTA/NSPS LAND TITLE SURVEY, RIVER STREET & NORTH 1ST STREET", BY CONTROL POINT ASSOC. INC., REVISED 27 MARCH 2020.
2. WORK IN AREA TO BE CLEARED INCLUDES BUT IS NOT LIMITED TO REMOVAL OF STONE, VEGETATION, TOPSOIL, AND PAVEMENT.
3. ALL PILES SHOWN TO BE REMOVED OR CUT AT SUBGRADE.

LEGEND:

- 1974 TIDAL WETLAND BOUNDARY
- MEAN HIGHER HIGH WATER (MHHW)
- MEAN HIGH WATER (MHW)
- MEAN LOW WATER (MLW)
- MEAN LOWER LOW WATER (MLLW)



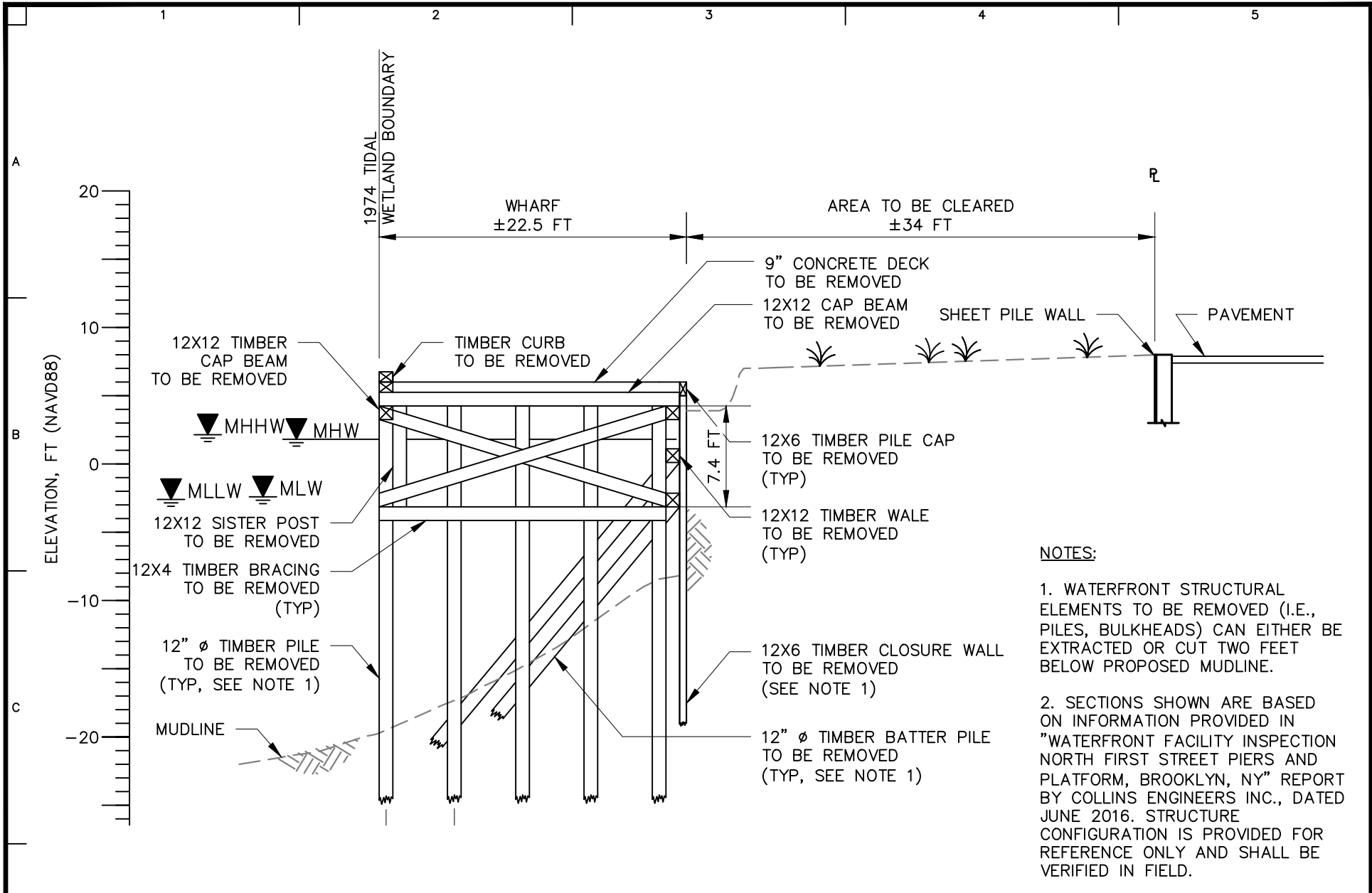
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Project
RIVER RING
 BLOCK No. 2355, LOT No. 1
 BLOCK No. 2361, LOT No. 1, 21
 BLOCK No. 2376, LOT No. 6, 50
 BROOKLYN
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Drawing Title
REMOVALS PLAN

Project No.
170594401
 Date
03/18/2022
 Drawn By
KRW
 Checked By
KH

Drawing No.
W-002
 Sheet 2 of 43



NOTES:

1. WATERFRONT STRUCTURAL ELEMENTS TO BE REMOVED (I.E., PILES, BULKHEADS) CAN EITHER BE EXTRACTED OR CUT TWO FEET BELOW PROPOSED MUDLINE.
2. SECTIONS SHOWN ARE BASED ON INFORMATION PROVIDED IN "WATERFRONT FACILITY INSPECTION NORTH FIRST STREET PIERS AND PLATFORM, BROOKLYN, NY" REPORT BY COLLINS ENGINEERS INC., DATED JUNE 2016. STRUCTURE CONFIGURATION IS PROVIDED FOR REFERENCE ONLY AND SHALL BE VERIFIED IN FIELD.

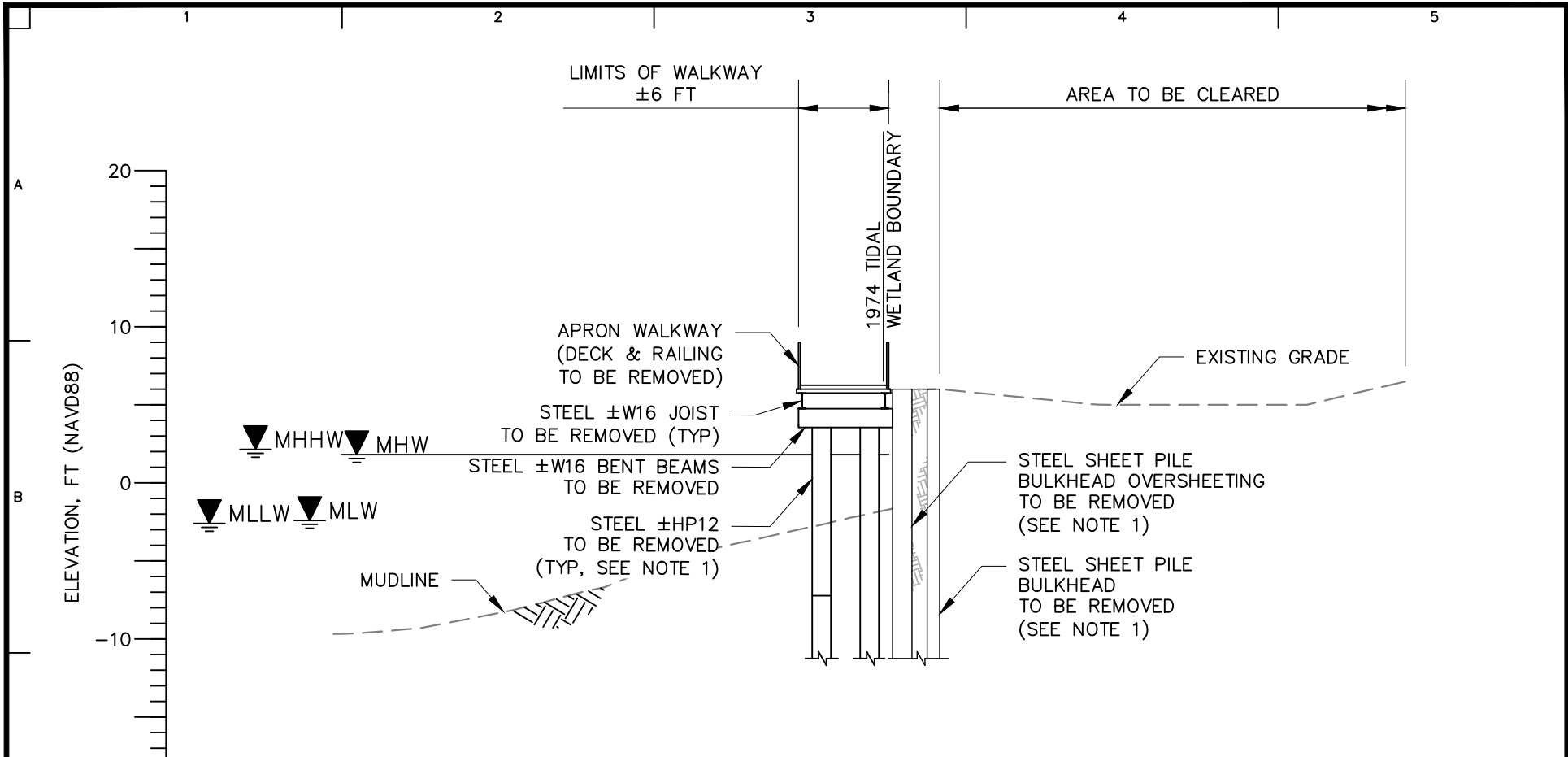


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Project
RIVER RING
 BLOCK No. 2355, LOT No. 1
 BLOCK No. 2361, LOT No. 1, 21
 BLOCK No. 2376, LOT No. 6, 50
 BROOKLYN
 KINGS NEW YORK

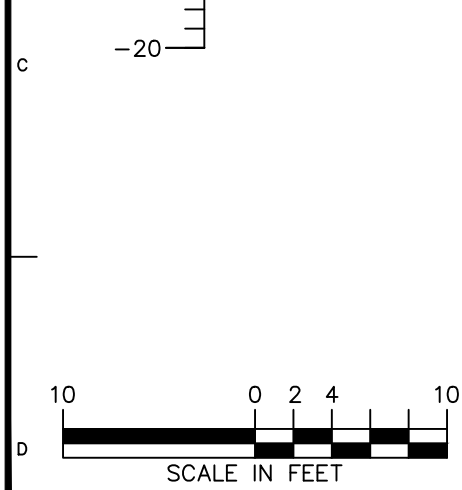
Drawing Title
EXISTING SECTION 1

Project No. 170594401	W-010
Date 03/18/2022	
Drawn By KRW	
Checked By KH	
Sheet 3 of 43	

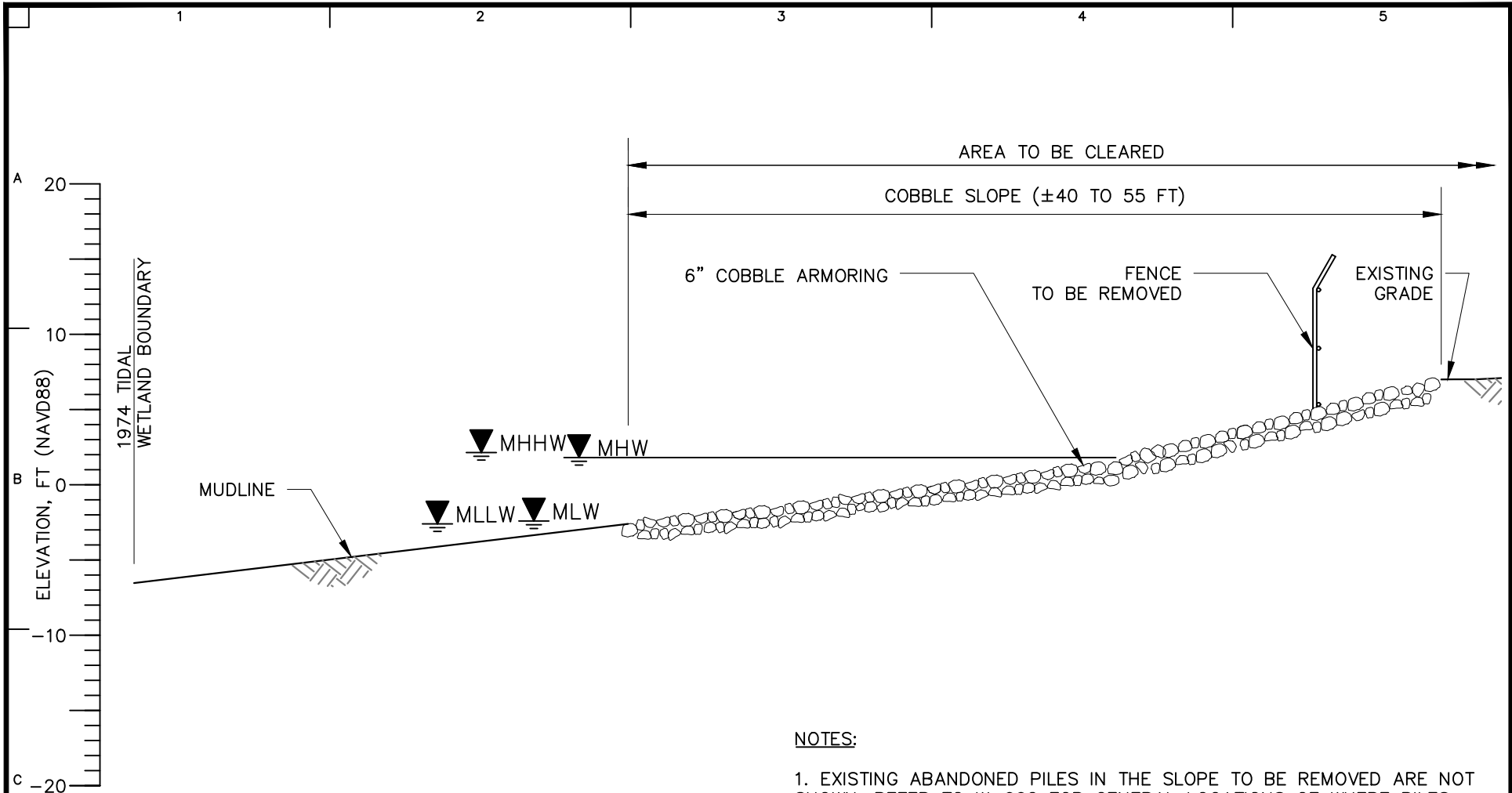


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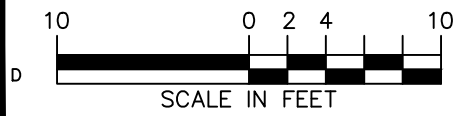


<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	Project	Drawing Title	Project No. 170594401	Drawing No.
	RIVER RING	EXISTING SECTION 2	Date 03/18/2022	W-011
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Drawn By KRW	
	KINGS NEW YORK		Checked By KH	
				Sheet 4 of 43

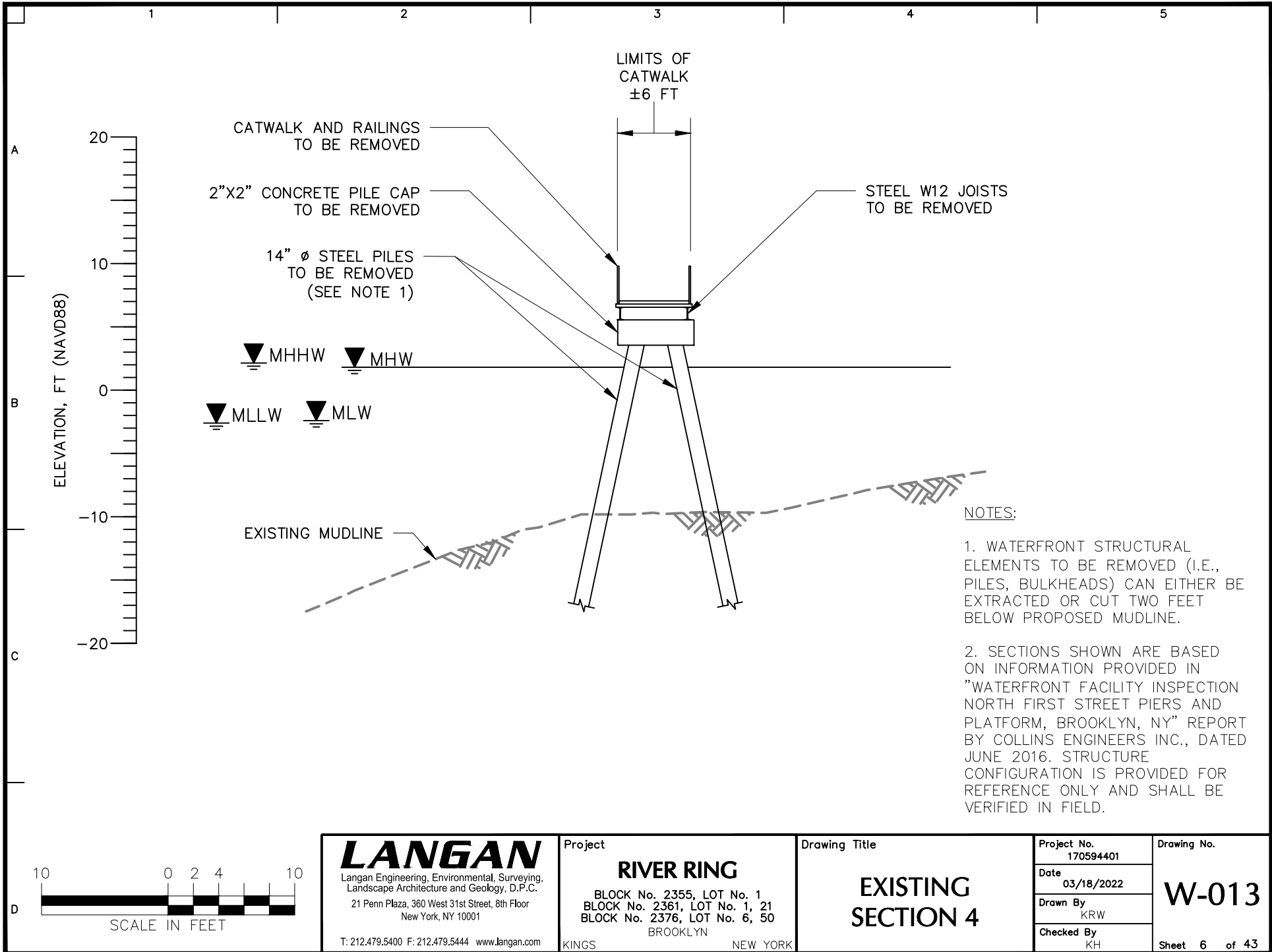


NOTES:

1. EXISTING ABANDONED PILES IN THE SLOPE TO BE REMOVED ARE NOT SHOWN. REFER TO W-002 FOR GENERAL LOCATIONS OF WHERE PILES MAY EXIST.
2. SECTIONS SHOWN ARE BASED ON INFORMATION PROVIDED IN "WATERFRONT FACILITY INSPECTION NORTH FIRST STREET PIERS AND PLATFORM, BROOKLYN, NY" REPORT BY COLLINS ENGINEERS INC., DATED JUNE 2016. STRUCTURE CONFIGURATION IS PROVIDED FOR REFERENCE ONLY AND SHALL BE VERIFIED IN FIELD.



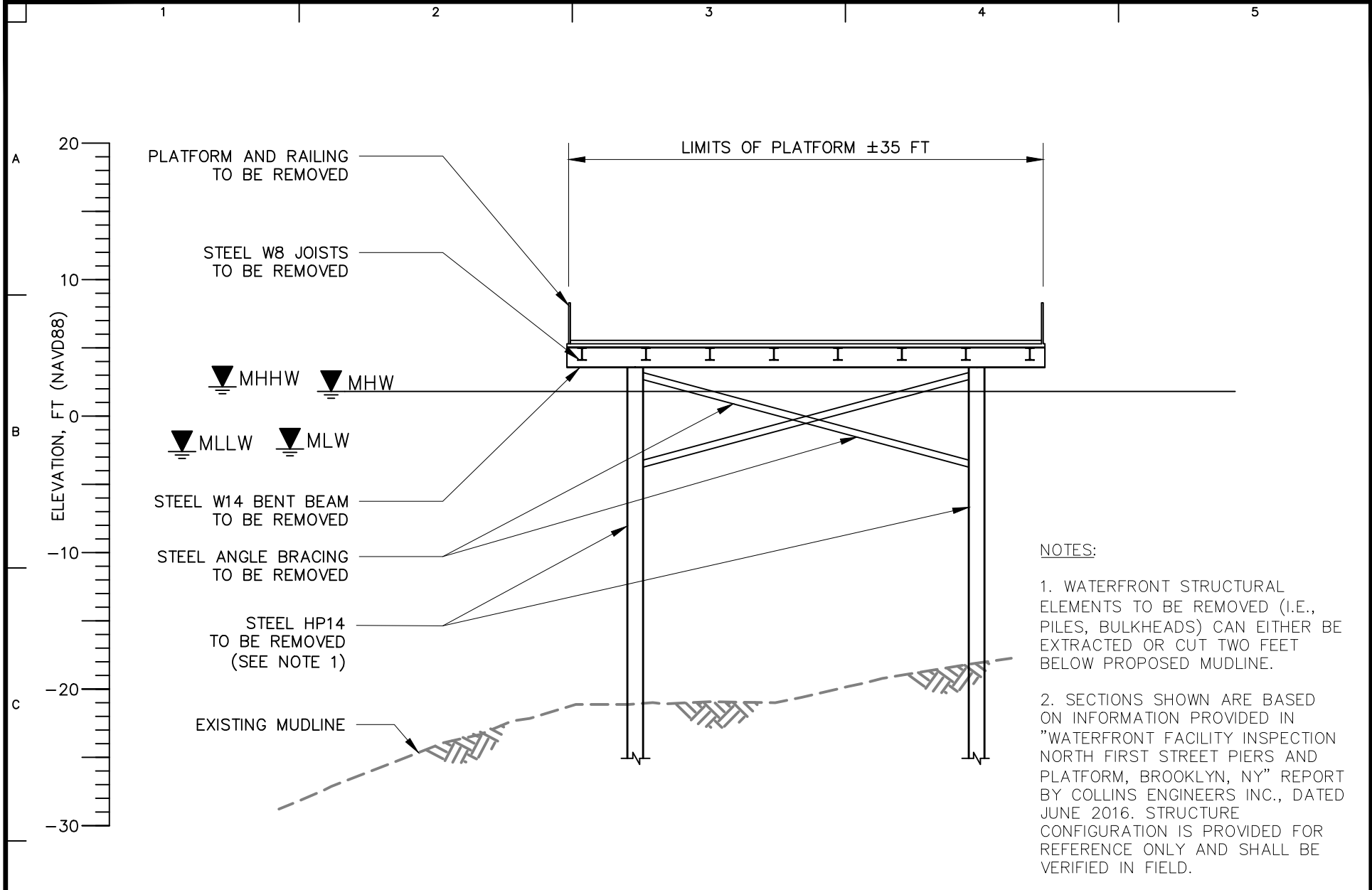
<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	Project	Drawing Title	Project No. 170594401	<p>Drawing No. W-012</p> <p>Sheet 5 of 43</p>
	RIVER RING	EXISTING SECTION 3	Date 03/18/2022	
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Drawn By KRW	
	KINGS NEW YORK		Checked By KH	



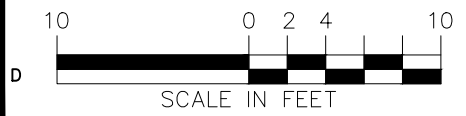
- NOTES:**
1. WATERFRONT STRUCTURAL ELEMENTS TO BE REMOVED (I.E., PILES, BULKHEADS) CAN EITHER BE EXTRACTED OR CUT TWO FEET BELOW PROPOSED MUDLINE.
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	<p>Date 03/18/2022</p>	<p>Drawn By KRW</p>	<p>Checked By KH</p>	

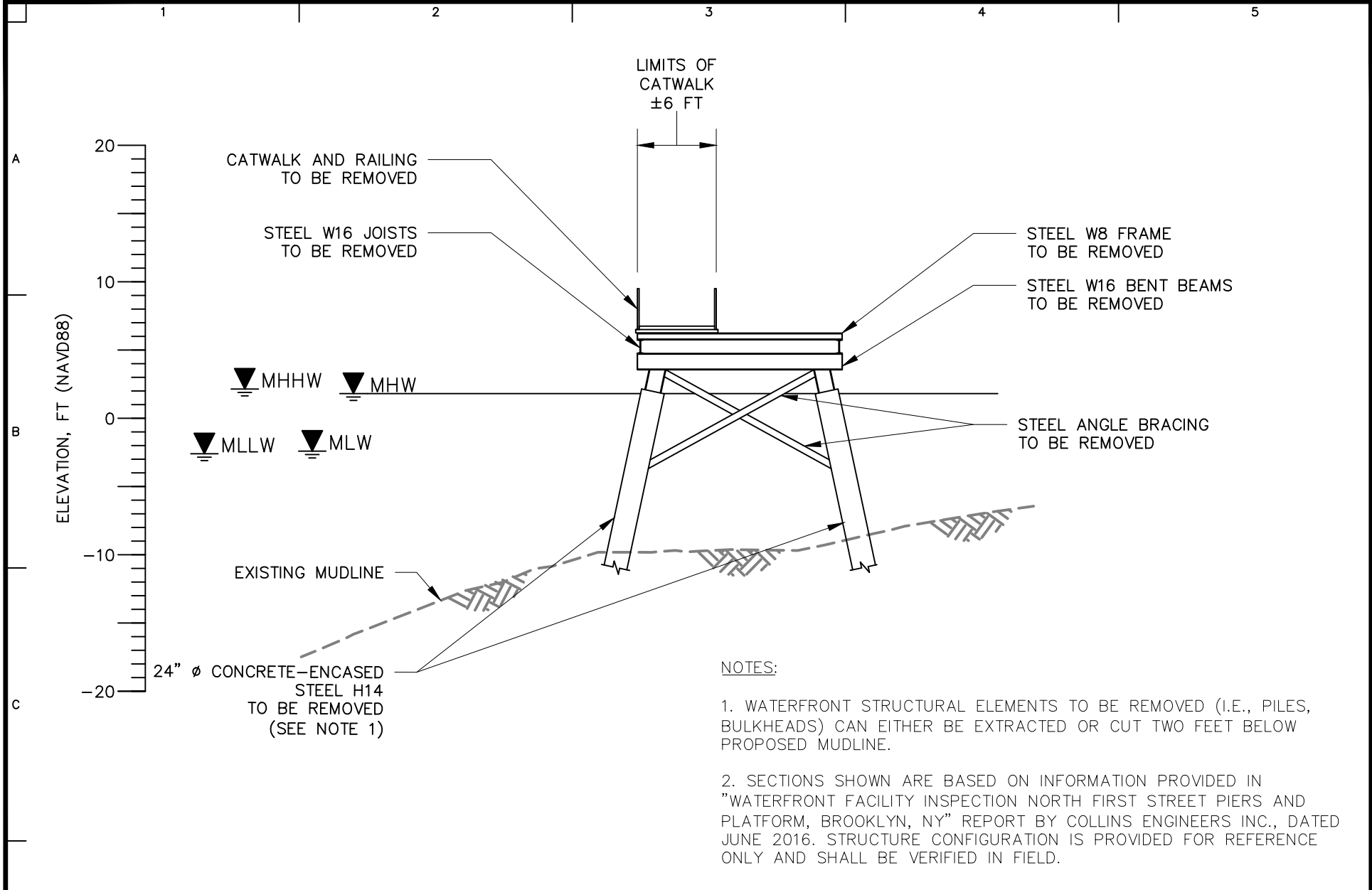


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	<p>T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Date 03/18/2022</p>	<p>Drawn By KRW</p>	

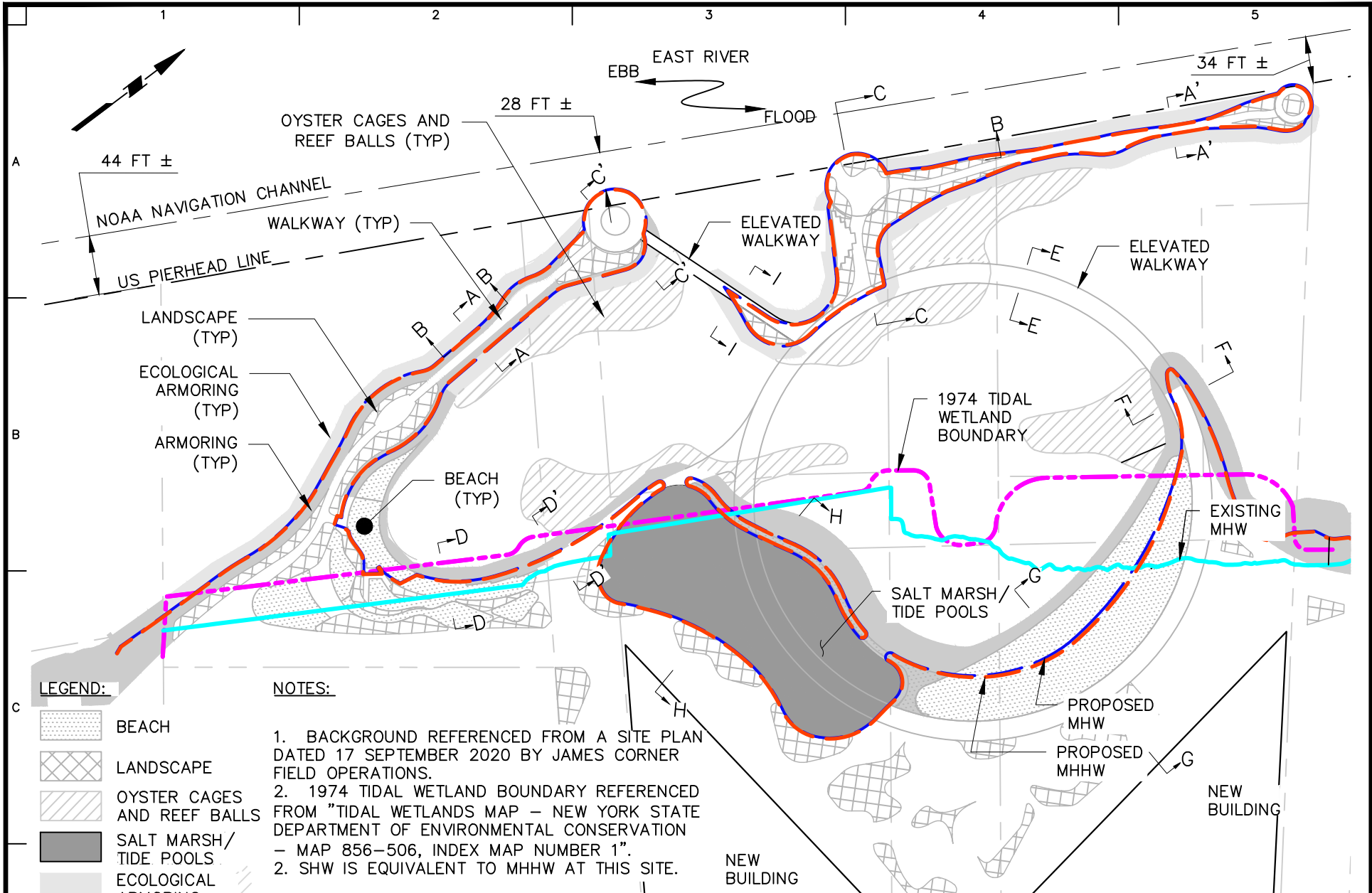
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- NOTES:**
1. WATERFRONT STRUCTURAL ELEMENTS TO BE REMOVED (I.E., PILES, BULKHEADS) CAN EITHER BE EXTRACTED OR CUT TWO FEET BELOW PROPOSED MUDLINE.
 2. SECTIONS SHOWN ARE BASED ON INFORMATION PROVIDED IN "WATERFRONT FACILITY INSPECTION NORTH FIRST STREET PIERS AND PLATFORM, BROOKLYN, NY" REPORT BY COLLINS ENGINEERS INC., DATED JUNE 2016. STRUCTURE CONFIGURATION IS PROVIDED FOR REFERENCE ONLY AND SHALL BE VERIFIED IN FIELD.

<p>SCALE IN FEET</p>	<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	Project	Drawing Title	Project No. 170594401	Drawing No. W-015
		RIVER RING	EXISTING SECTION 6	Date 03/18/2022	
		BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Drawn By KRW	
		KINGS NEW YORK		Checked By KH	
					Sheet 8 of 43

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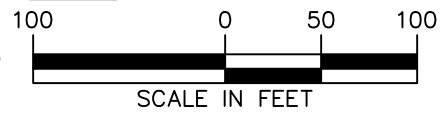


LEGEND:

- BEACH
- LANDSCAPE
- OYSTER CAGES AND REEF BALLS
- SALT MARSH/TIDE POOLS
- ECOLOGICAL ARMORING
- ARMORING

NOTES:

1. BACKGROUND REFERENCED FROM A SITE PLAN DATED 17 SEPTEMBER 2020 BY JAMES CORNER FIELD OPERATIONS.
2. 1974 TIDAL WETLAND BOUNDARY REFERENCED FROM "TIDAL WETLANDS MAP - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION - MAP 856-506, INDEX MAP NUMBER 1".
2. SHW IS EQUIVALENT TO MHHW AT THIS SITE.



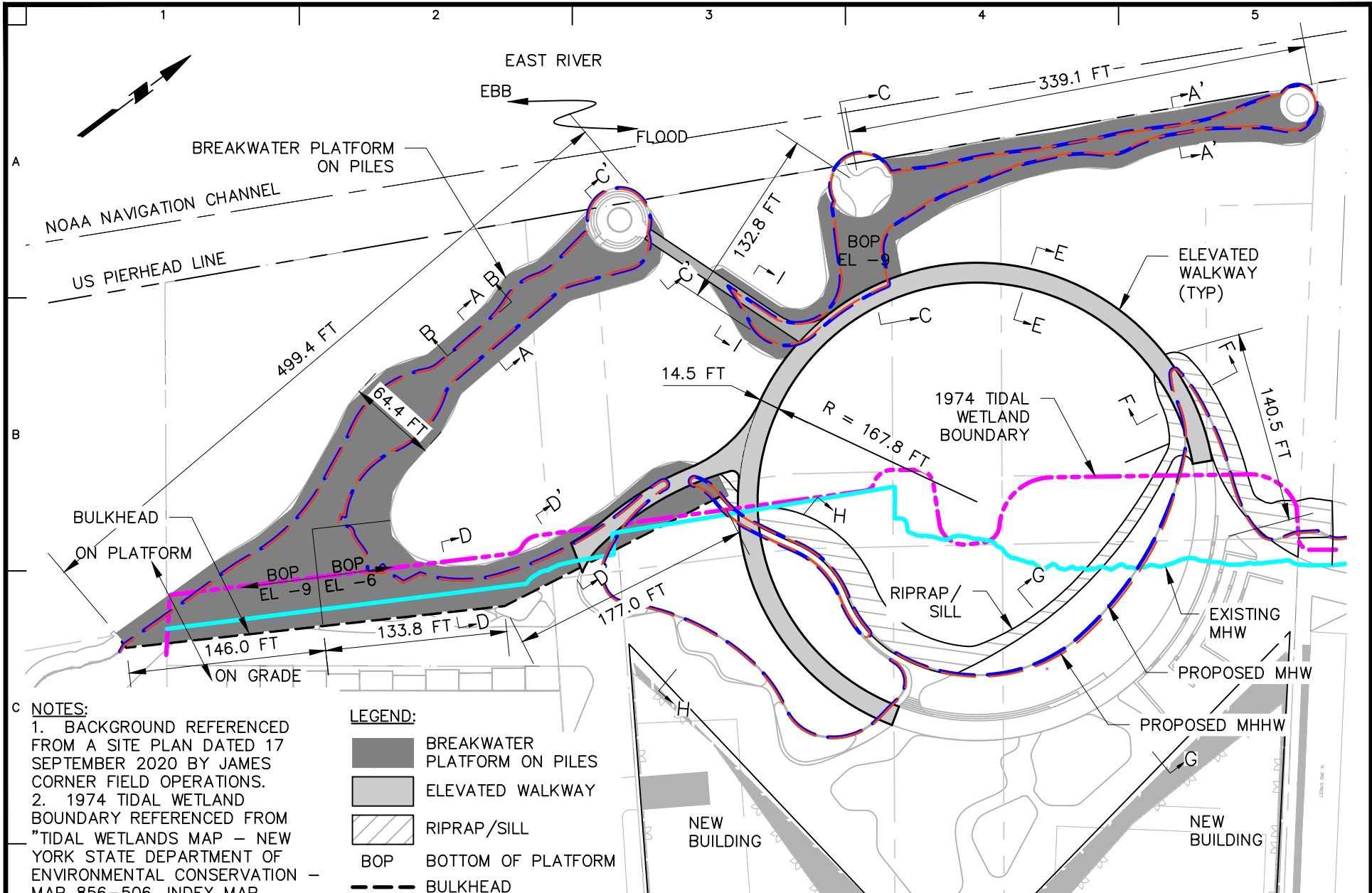
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Project
RIVER STREET
 BLOCK No. 2355, LOT No. 1
 BLOCK No. 2361, LOT No. 1, 21
 BLOCK No. 2376, LOT No. 6, 50
 BROOKLYN
 KINGS NEW YORK

Drawing Title
PROPOSED SITE PLAN

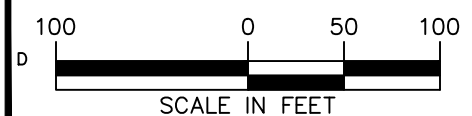
Project No.
 170594401
 Date
 03/18/2022
 Drawn By
 KRW
 Checked By
 KH

Drawing No.
W-100
 Sheet 9 of 43



NOTES:
 1. BACKGROUND REFERENCED FROM A SITE PLAN DATED 17 SEPTEMBER 2020 BY JAMES CORNER FIELD OPERATIONS.
 2. 1974 TIDAL WETLAND BOUNDARY REFERENCED FROM "TIDAL WETLANDS MAP - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION - MAP 856-506, INDEX MAP NUMBER 1".

- LEGEND:**
- BREAKWATER PLATFORM ON PILES
 - ELEVATED WALKWAY
 - RIPRAP/SILL
 - BOP BOTTOM OF PLATFORM
 - BULKHEAD



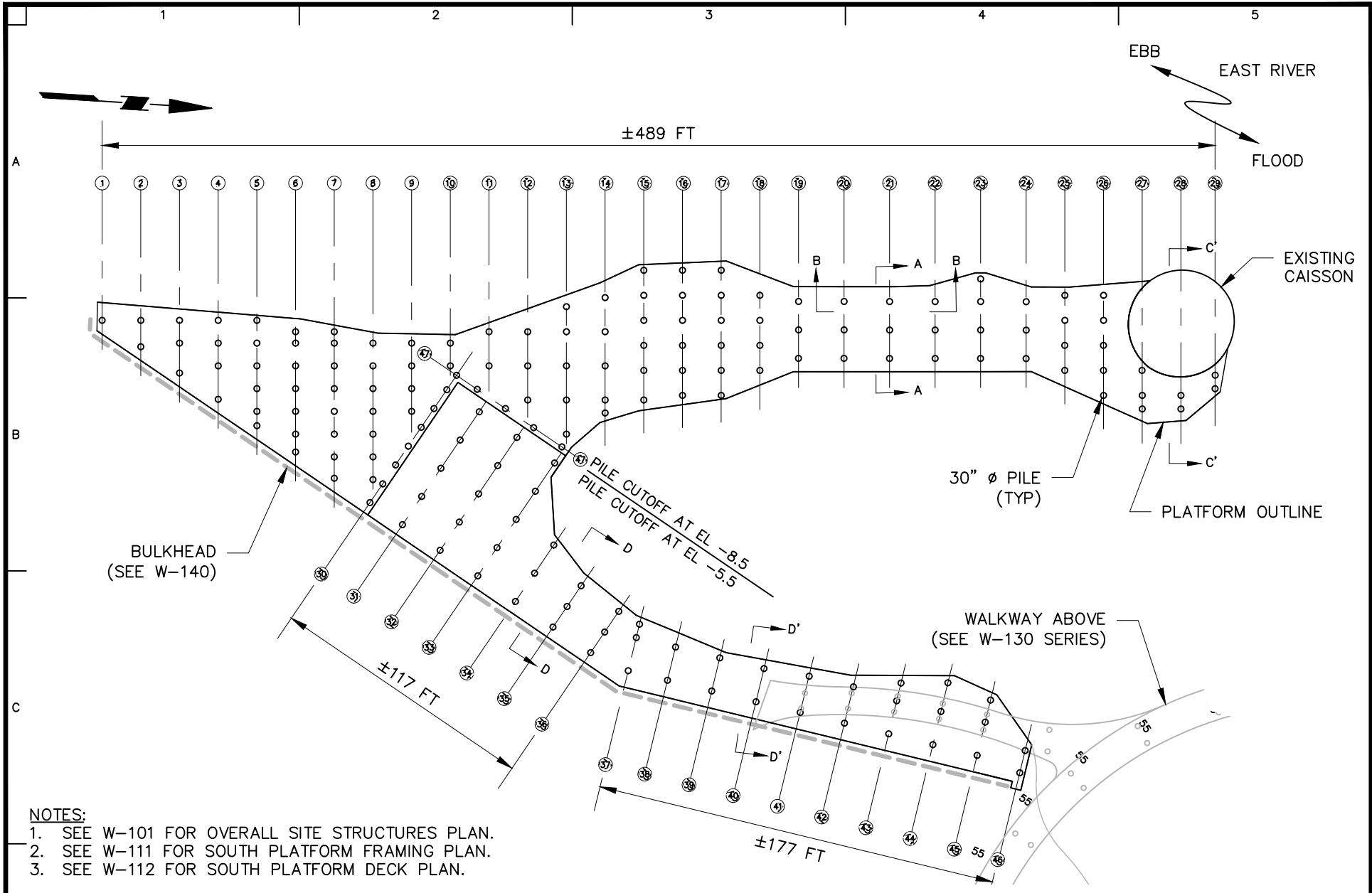
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Project
RIVER RING
 BLOCK No. 2355, LOT No. 1
 BLOCK No. 2361, LOT No. 1, 21
 BLOCK No. 2376, LOT No. 6, 50
 BROOKLYN
 KINGS NEW YORK

Drawing Title
PROPOSED WATERFRONT STRUCTURES

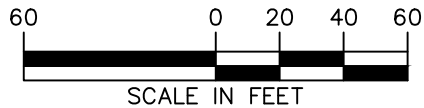
Project No.
 170594401
 Date
 03/18/2022
 Drawn By
 KRW
 Checked By
 KH

Drawing No.
W-101
 Sheet 10 of 43



NOTES:

1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. SEE W-111 FOR SOUTH PLATFORM FRAMING PLAN.
3. SEE W-112 FOR SOUTH PLATFORM DECK PLAN.



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Project

RIVER RING

BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN

KINGS

NEW YORK

Drawing Title

**SOUTH PLATFORM
FOUNDATION
PLAN**

Project No.

170594401

Date

03/18/2022

Drawn By

KRW

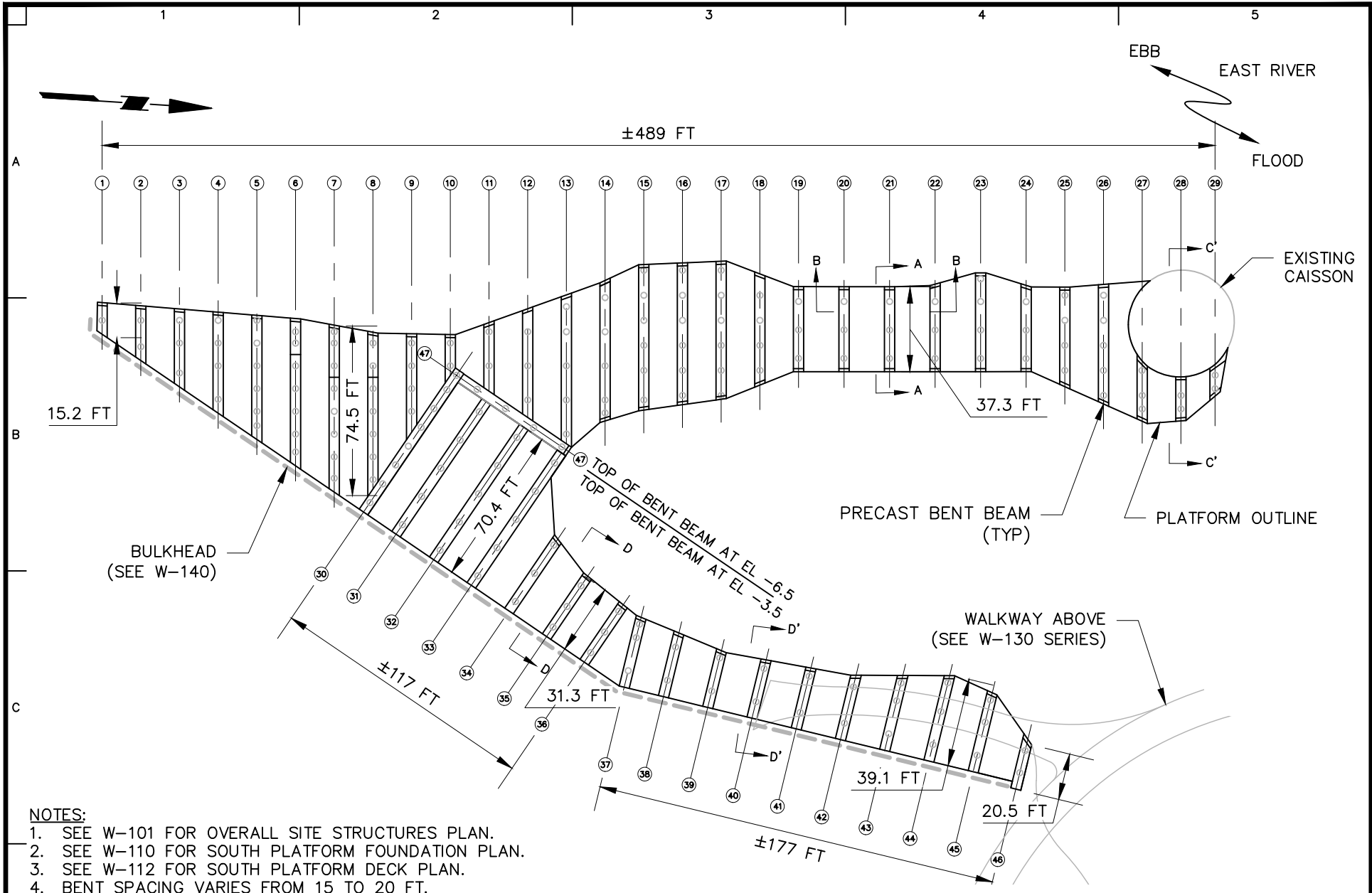
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KH

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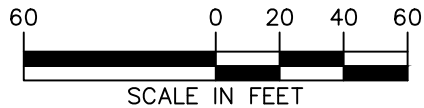
W-110

Sheet 11 of 43



NOTES:

1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. SEE W-110 FOR SOUTH PLATFORM FOUNDATION PLAN.
3. SEE W-112 FOR SOUTH PLATFORM DECK PLAN.
4. BENT SPACING VARIES FROM 15 TO 20 FT.



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Project

RIVER RING

BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN

KINGS

NEW YORK

Drawing Title

**SOUTH PLATFORM
FRAMING PLAN**

Project No.
170594401

Date
03/18/2022

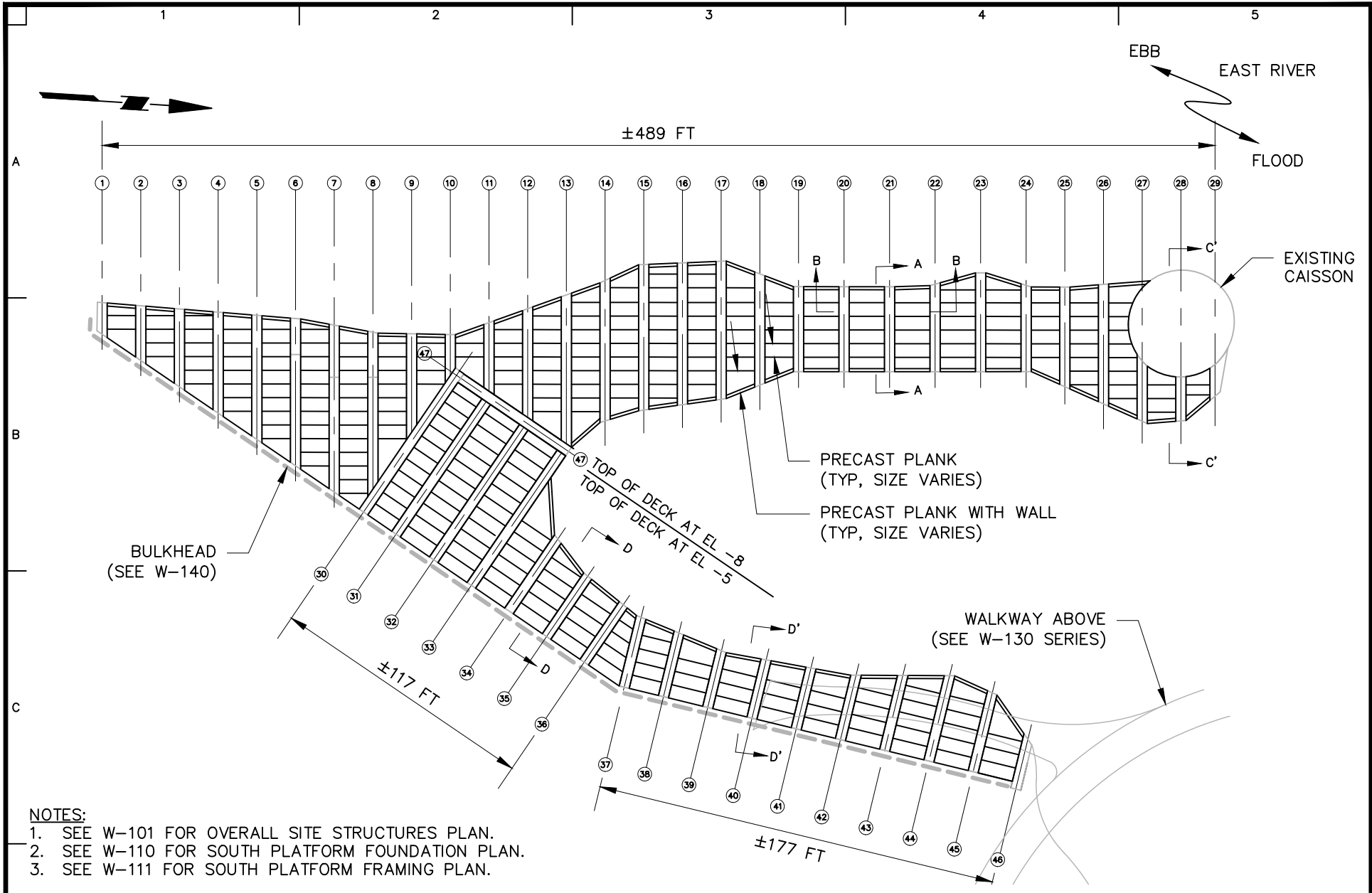
Drawn By
KRW

Checked By
KH

Drawing No.

W-111

Sheet 12 of 43

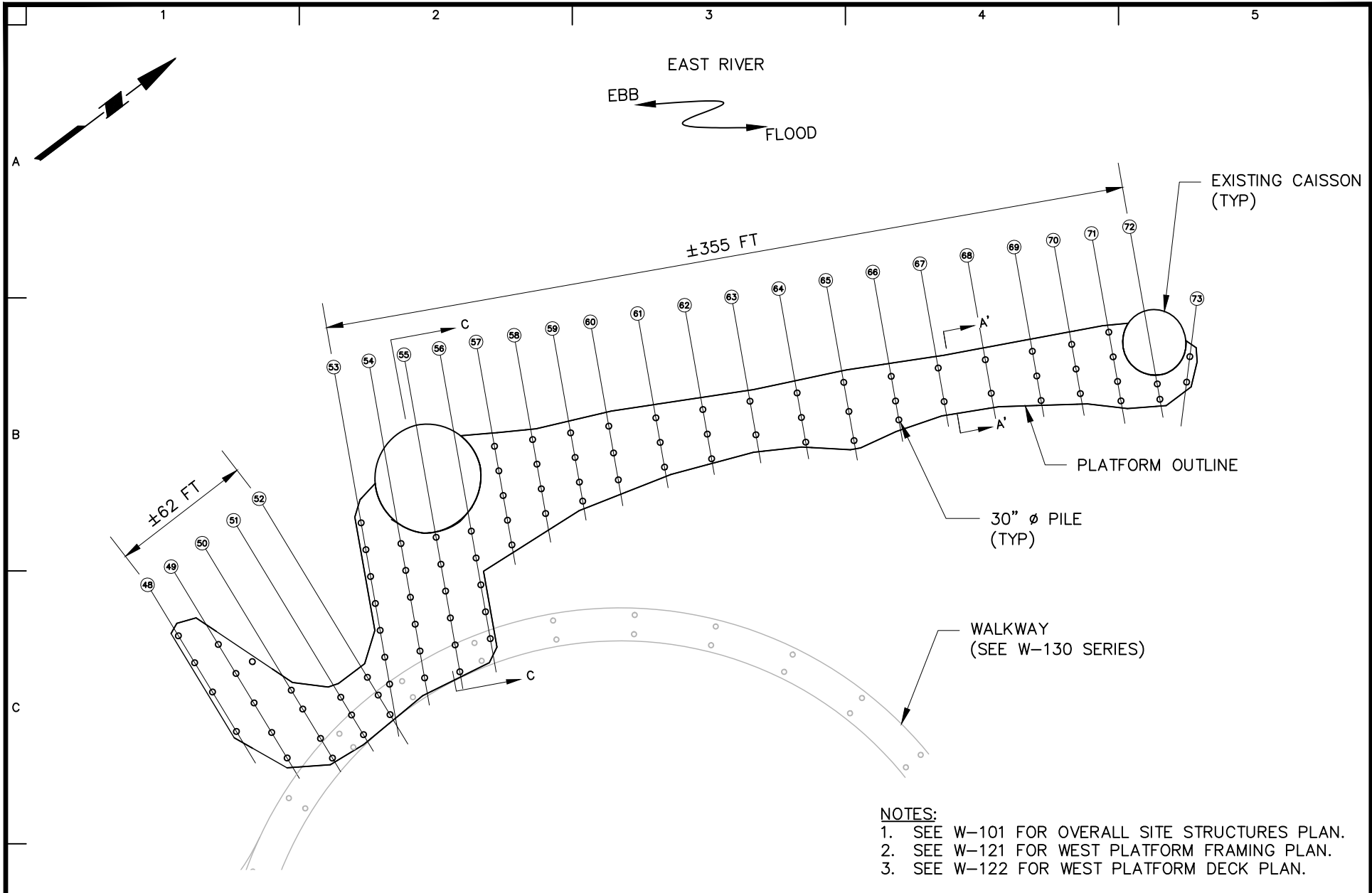


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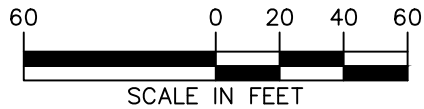
1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. SEE W-110 FOR SOUTH PLATFORM FOUNDATION PLAN.
3. SEE W-111 FOR SOUTH PLATFORM FRAMING PLAN.



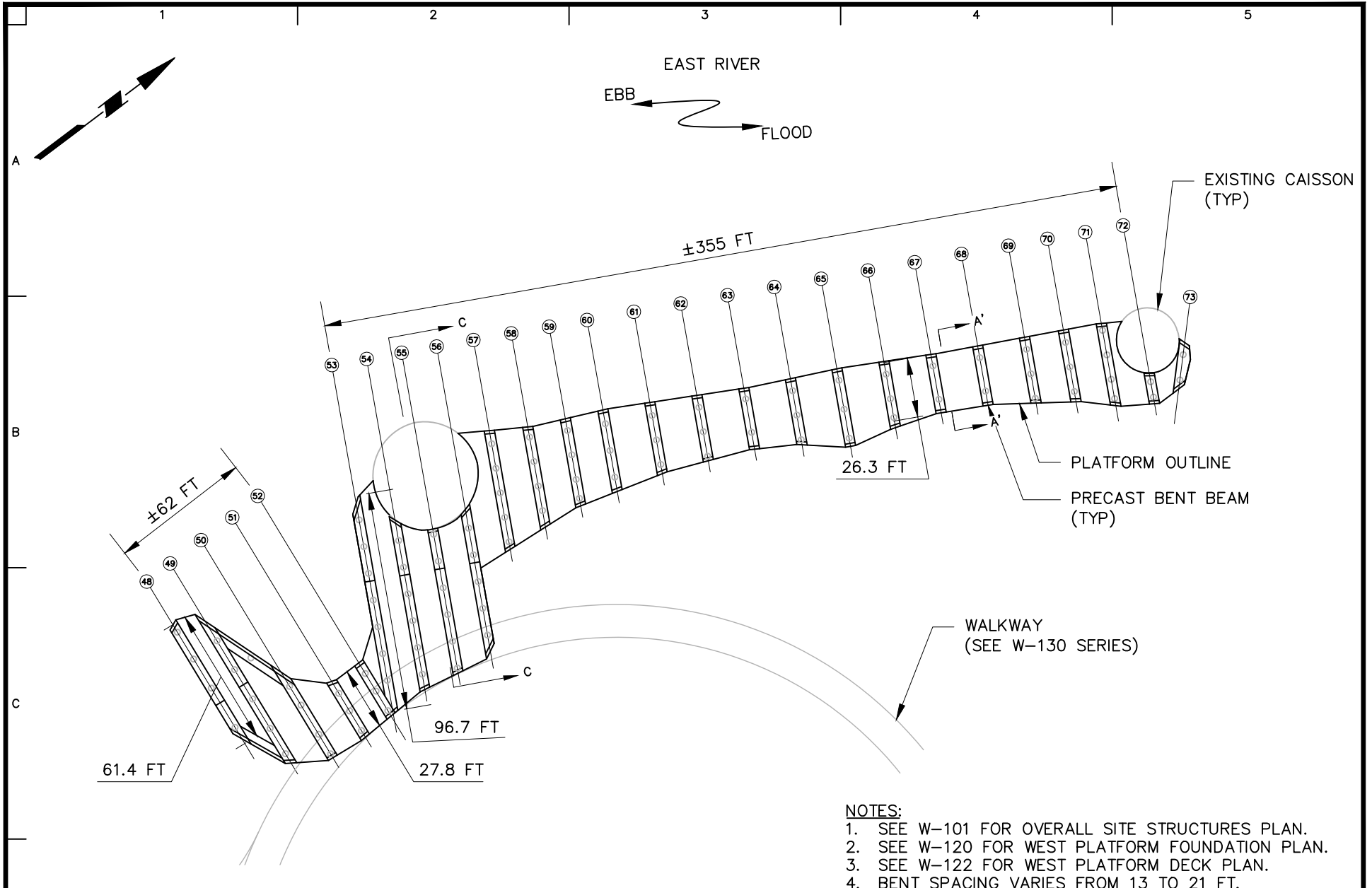
<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	Project	Drawing Title	Project No. 170594401	Drawing No.
	<p>RIVER RING BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN NEW YORK</p>	<p>SOUTH PLATFORM DECK PLAN</p>	Date 03/18/2022	<p>W-112</p>
KINGS	NEW YORK	Drawn By KRW	Sheet 13 of 43	
			Checked By KH	



- NOTES:**
1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
 2. SEE W-121 FOR WEST PLATFORM FRAMING PLAN.
 3. SEE W-122 FOR WEST PLATFORM DECK PLAN.



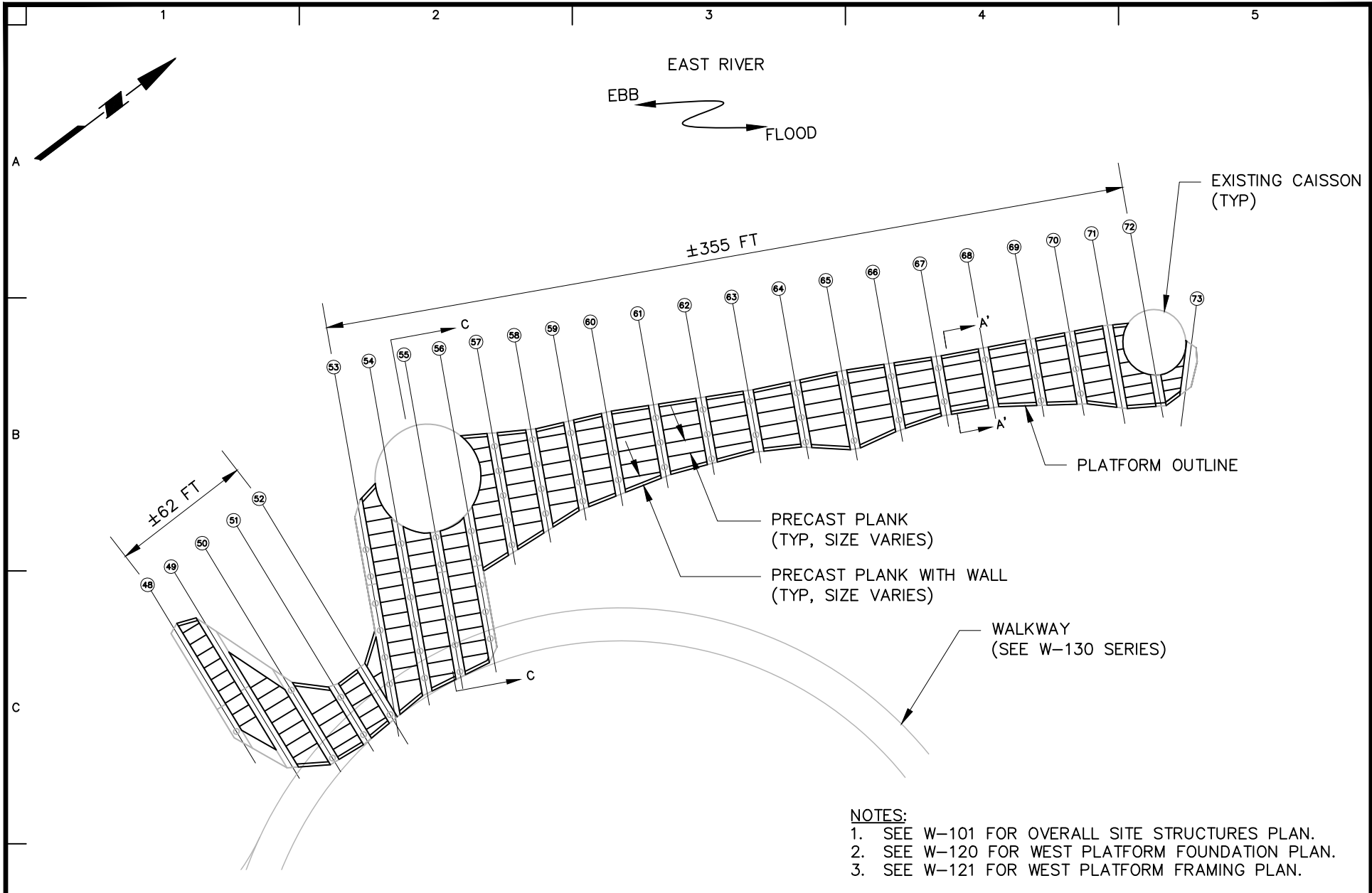
<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Project RIVER RING BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN KINGS NEW YORK</p>	<p>Drawing Title WEST PLATFORM FOUNDATION PLAN</p>	<p>Project No. 170594401</p>	<p>Drawing No. W-120 Sheet 14 of 43</p>
	<p>T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Date 03/18/2022</p>	<p>Drawn By KRW</p>	
			<p>Checked By KH</p>	



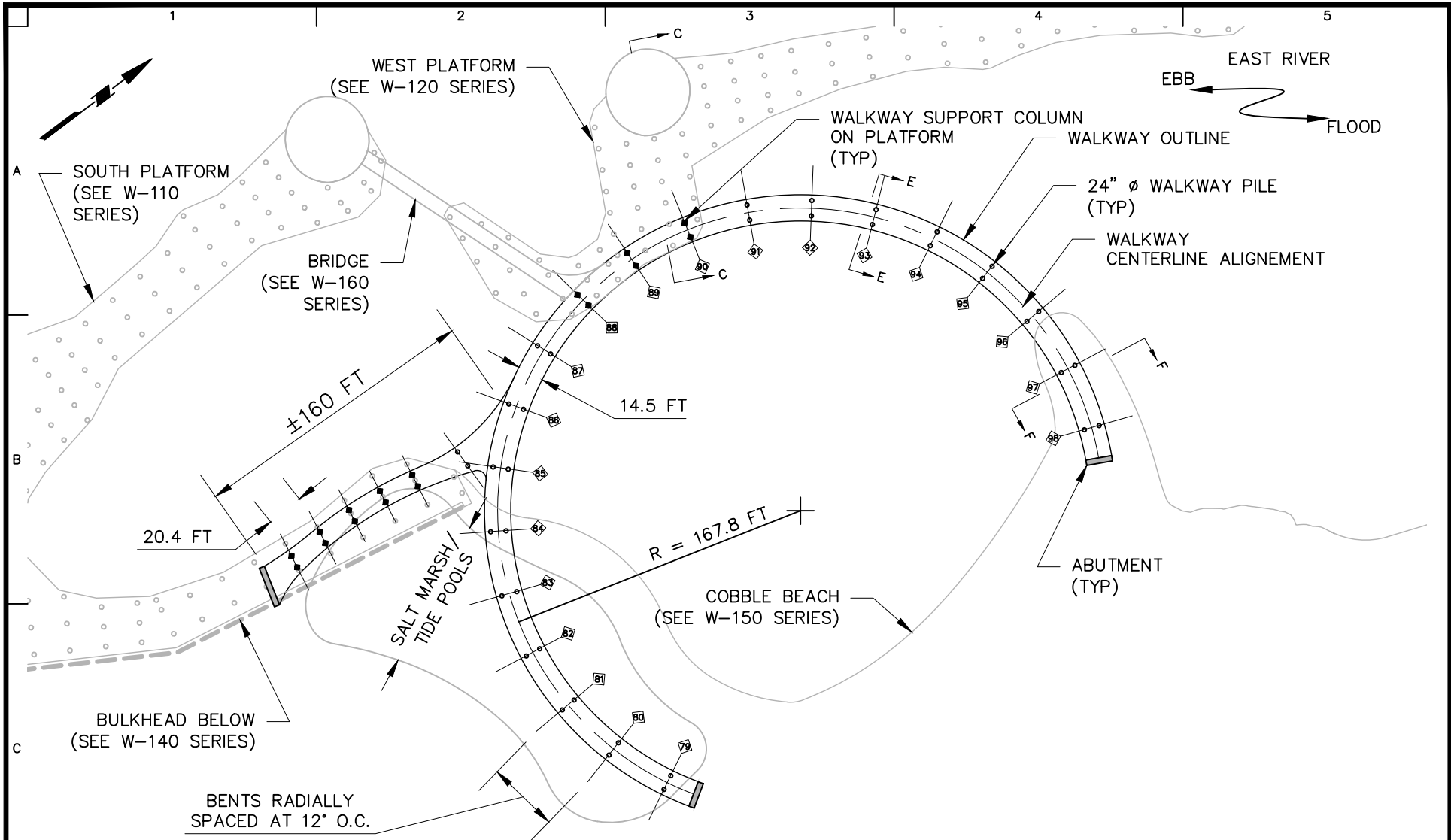
- NOTES:**
1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
 2. SEE W-120 FOR WEST PLATFORM FOUNDATION PLAN.
 3. SEE W-122 FOR WEST PLATFORM DECK PLAN.
 4. BENT SPACING VARIES FROM 13 TO 21 FT.



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	<p>© 2022 Langan</p>			

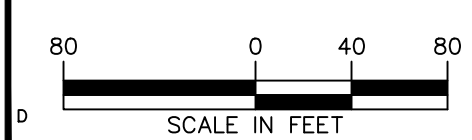


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	<p>KINGS NEW YORK</p>	<p>Date 03/18/2022</p>	<p>Drawn By KRW</p>	
			<p>Sheet 16 of 43</p>	



NOTES:

1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. SEE W-131 FOR WALKWAY FRAMING PLAN.
3. SEE W-132 FOR WALKWAY DECK PLAN.

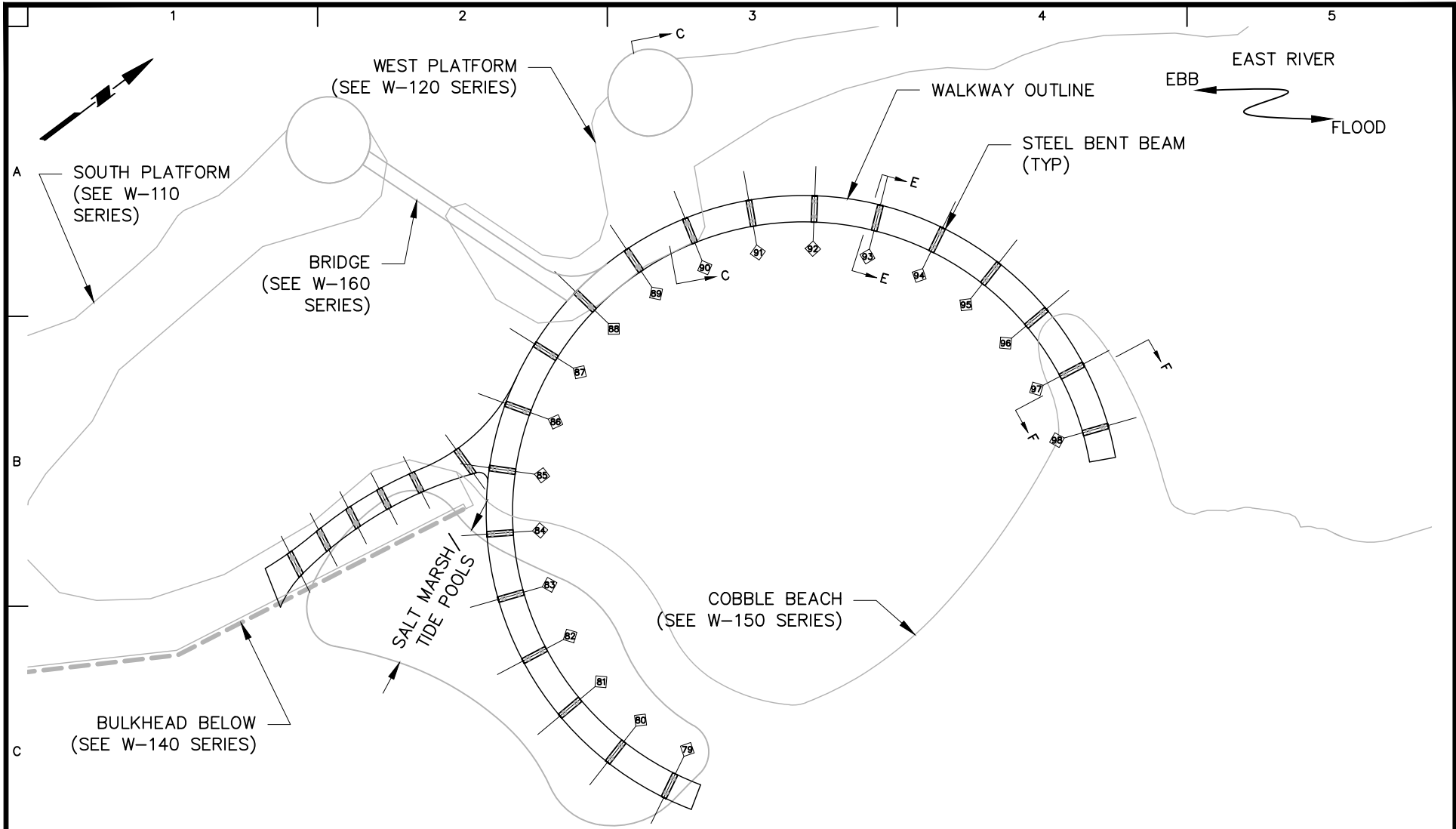


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RIVER RING
 BLOCK No. 2355, LOT No. 1
 BLOCK No. 2361, LOT No. 1, 21
 BLOCK No. 2376, LOT No. 6, 50
 BROOKLYN
 KINGS NEW YORK

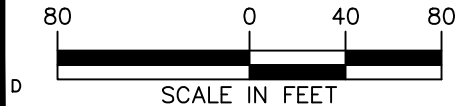
Drawing Title
**WALKWAY
 FOUNDATION
 PLAN**

Project No. 170594401	W-130
Date 03/18/2022	
Drawn By KRW	
Checked By KH	
Sheet 17 of 43	



NOTES:

1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. SEE W-130 FOR WALKWAY FOUNDATION PLAN.
3. SEE W-132 FOR WALKWAY DECK PLAN.



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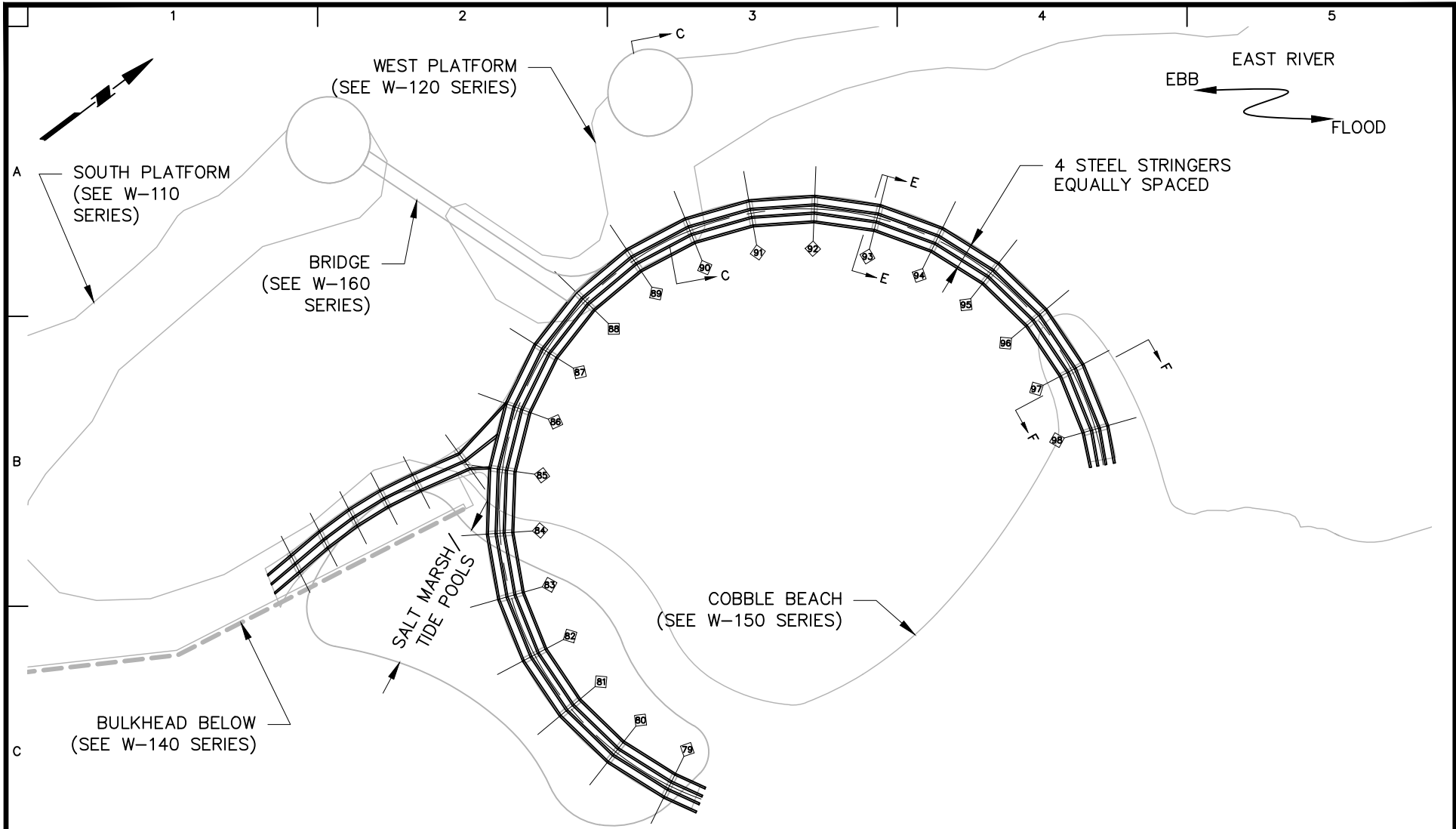
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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

Drawing Title
**WALKWAY
FRAMING PLAN**

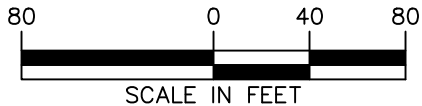
Project No.
170594401
Date
03/18/2022
Drawn By
KRW
Checked By
KH

Drawing No.
W-131
Sheet 18 of 43



NOTES:

1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. SEE W-130 FOR WALKWAY FOUNDATION PLAN.
3. SEE W-131 FOR WALKWAY FRAMING PLAN.



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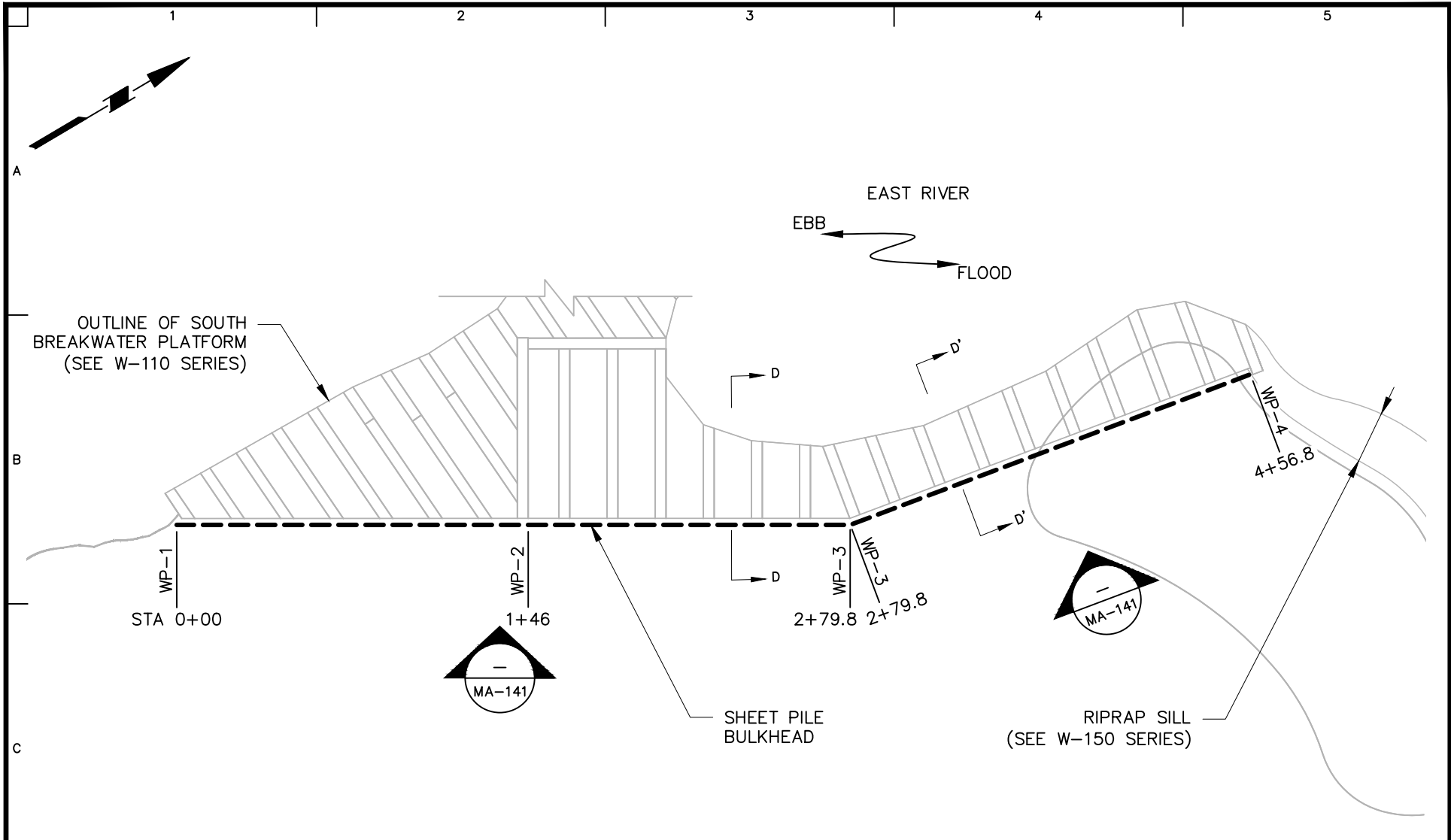
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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

Drawing Title
**WALKWAY
DECK PLAN**

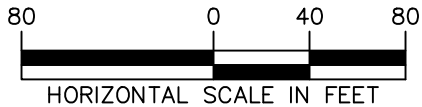
Project No.
170594401
Date
03/18/2022
Drawn By
KRW
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KH

Drawing No.
W-132
Sheet 19 of 43



NOTES:

1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. SEE W-141 FOR BULKHEAD PROFILE.



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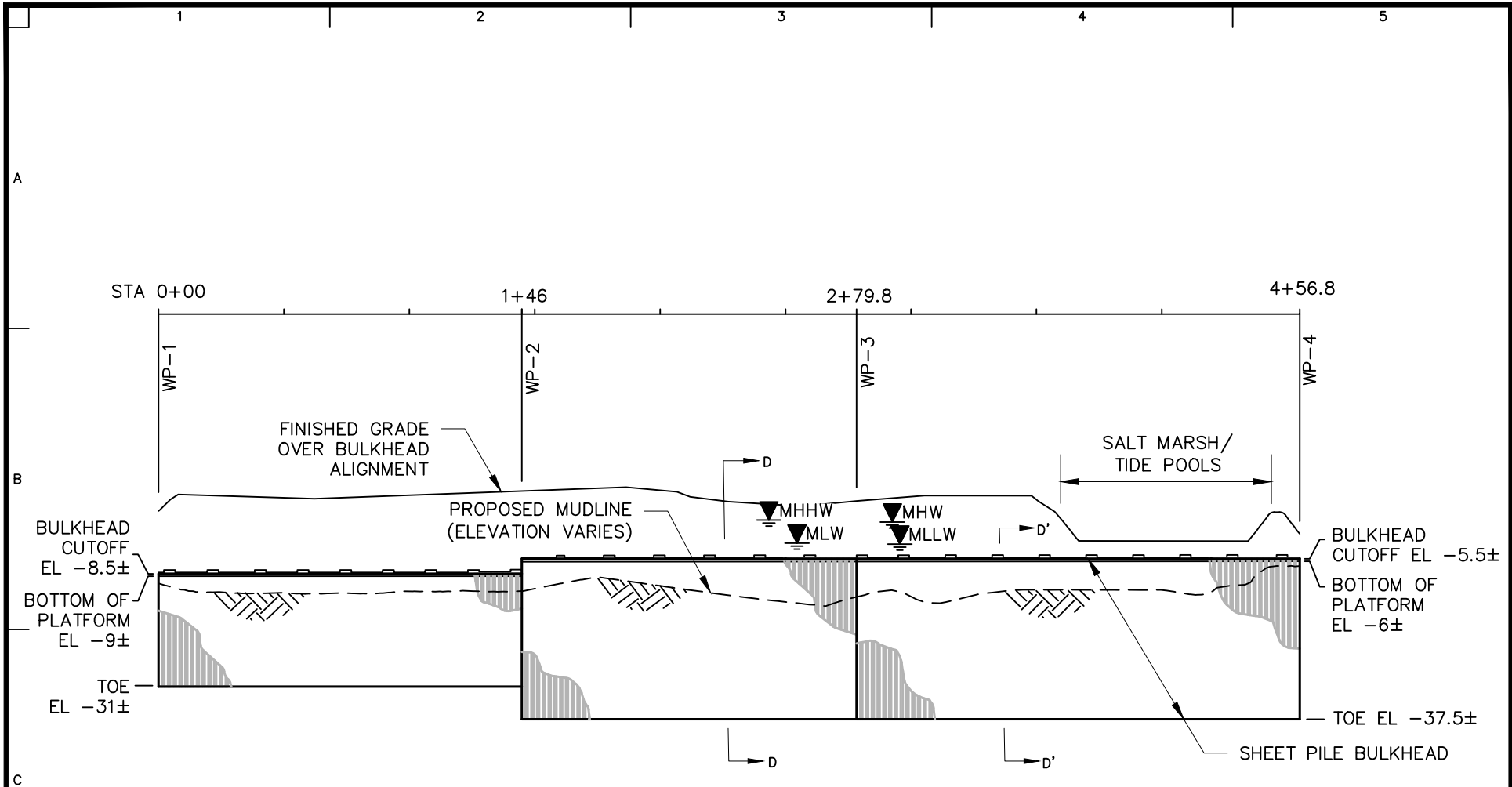
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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

Drawing Title
**BULKHEAD
PART PLAN**

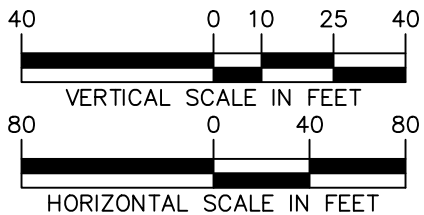
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170594401
Date
03/18/2022
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Checked By
KH

Drawing No.
W-140
Sheet 20 of 43

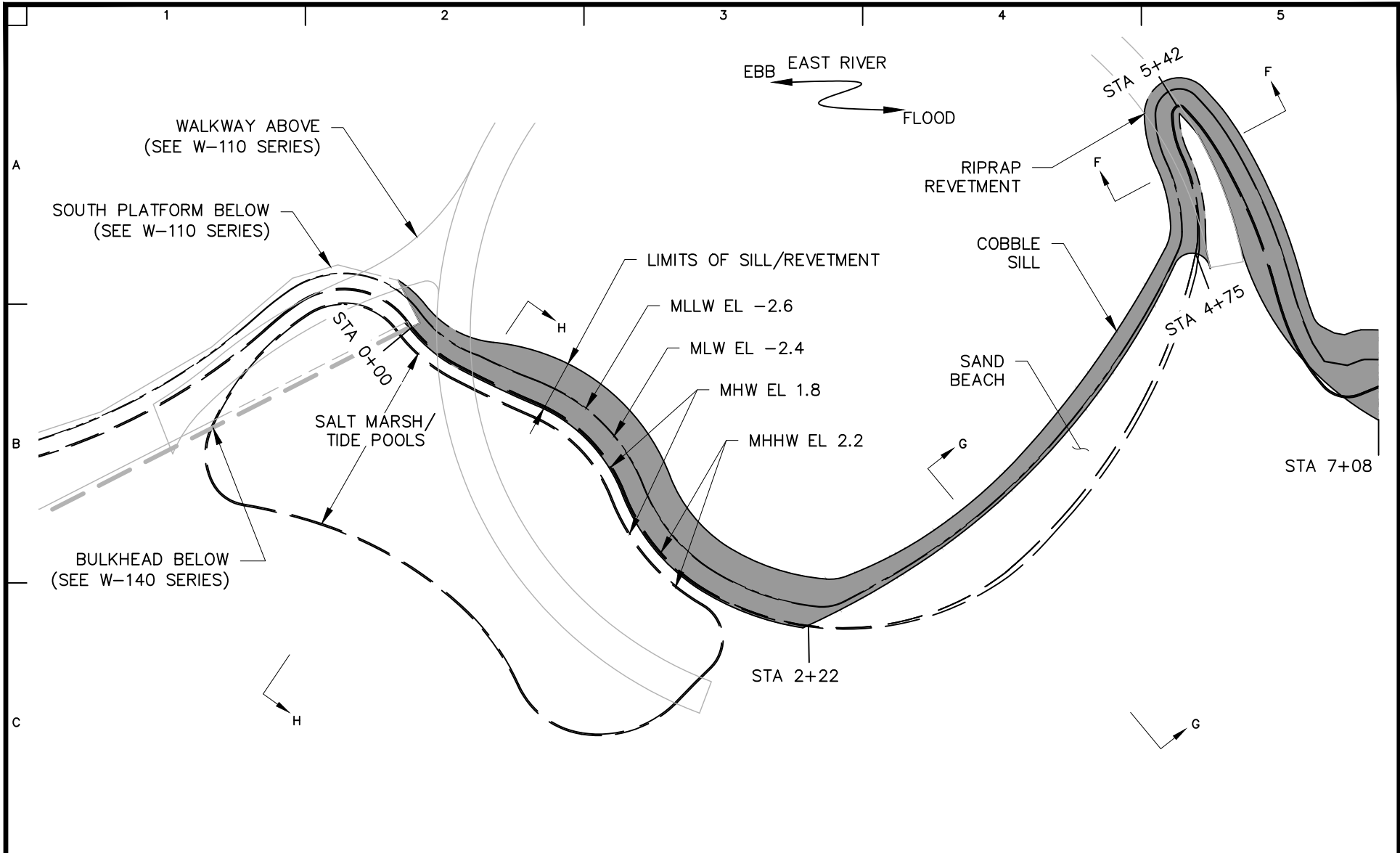


NOTES:

1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. SEE W-142 FOR BULKHEAD PART PLAN.
3. ELEVATION SHOWS BACK FACE OF BULKHEAD.

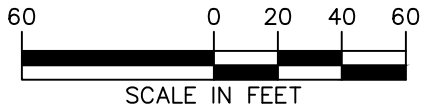


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	RIVER RING	BULKHEAD PROFILE	170594401	W-141
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Date	
	KINGS NEW YORK		03/18/2022	
			Drawn By	
			KRW	
			Checked By	
			KH	Sheet 21 of 43



NOTES:

1. SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.
2. STATIONS ARE MEASURED ALONG MHHW LINE.



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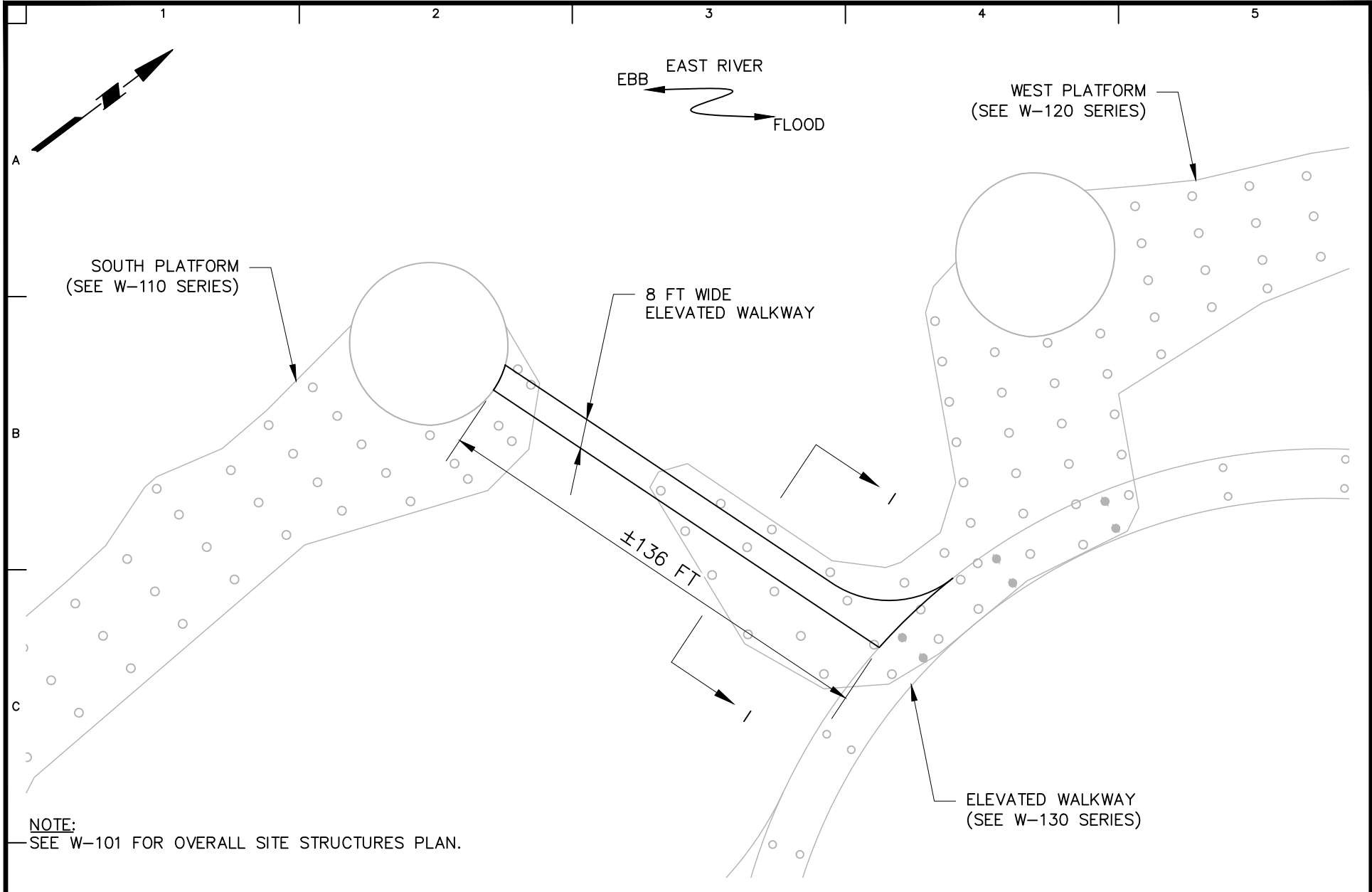
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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

Drawing Title
**SHORELINE
PART PLAN**

Project No.
170594401
Date
03/18/2022
Drawn By
KRW
Checked By
KH

Drawing No.
W-150
Sheet 22 of 43



NOTE:
SEE W-101 FOR OVERALL SITE STRUCTURES PLAN.



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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

Drawing Title
BRIDGE PLAN

Project No.
170594401
Date
03/18/2022
Drawn By
KRW
Checked By
KH

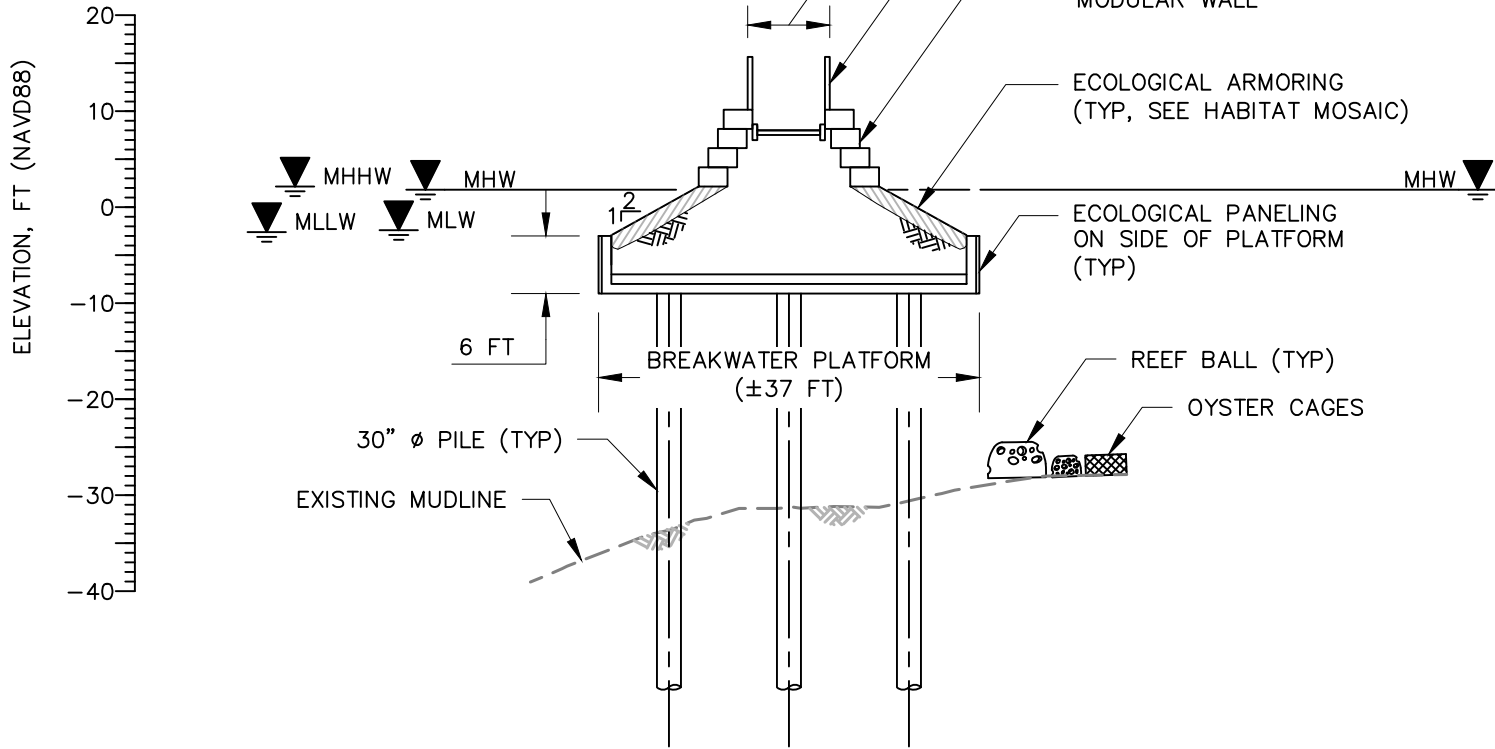
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W-160
Sheet 23 of 43

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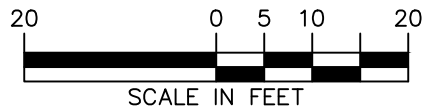
A

B

C



NOTE:
PLATFORM WIDTH VARIES FROM 15 TO 75 FT.



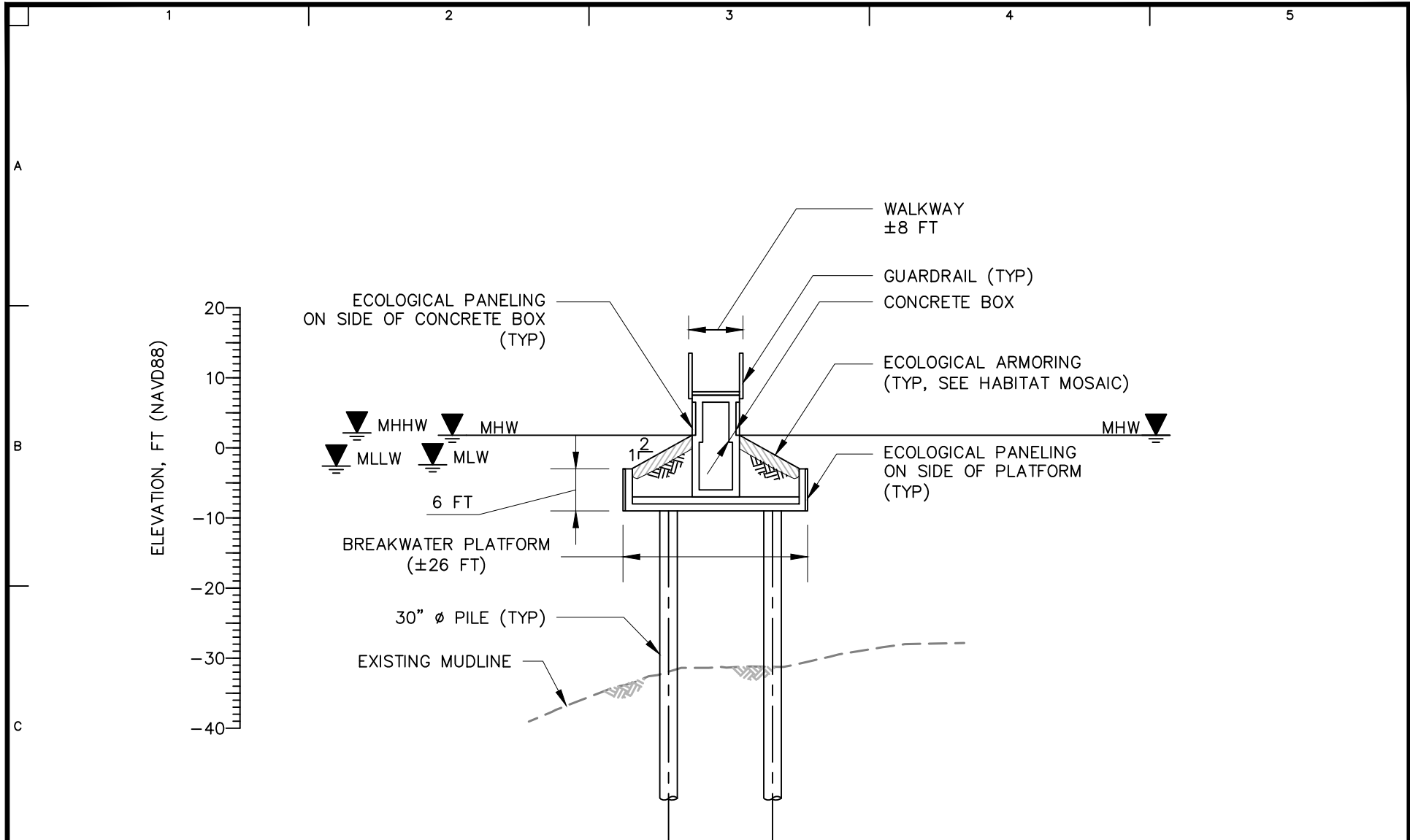
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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

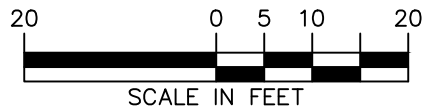
Drawing Title
PROPOSED SECTION A

Project No.
170594401
Date
03/18/2022
Drawn By
KRW
Checked By
KH

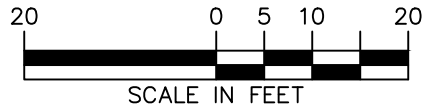
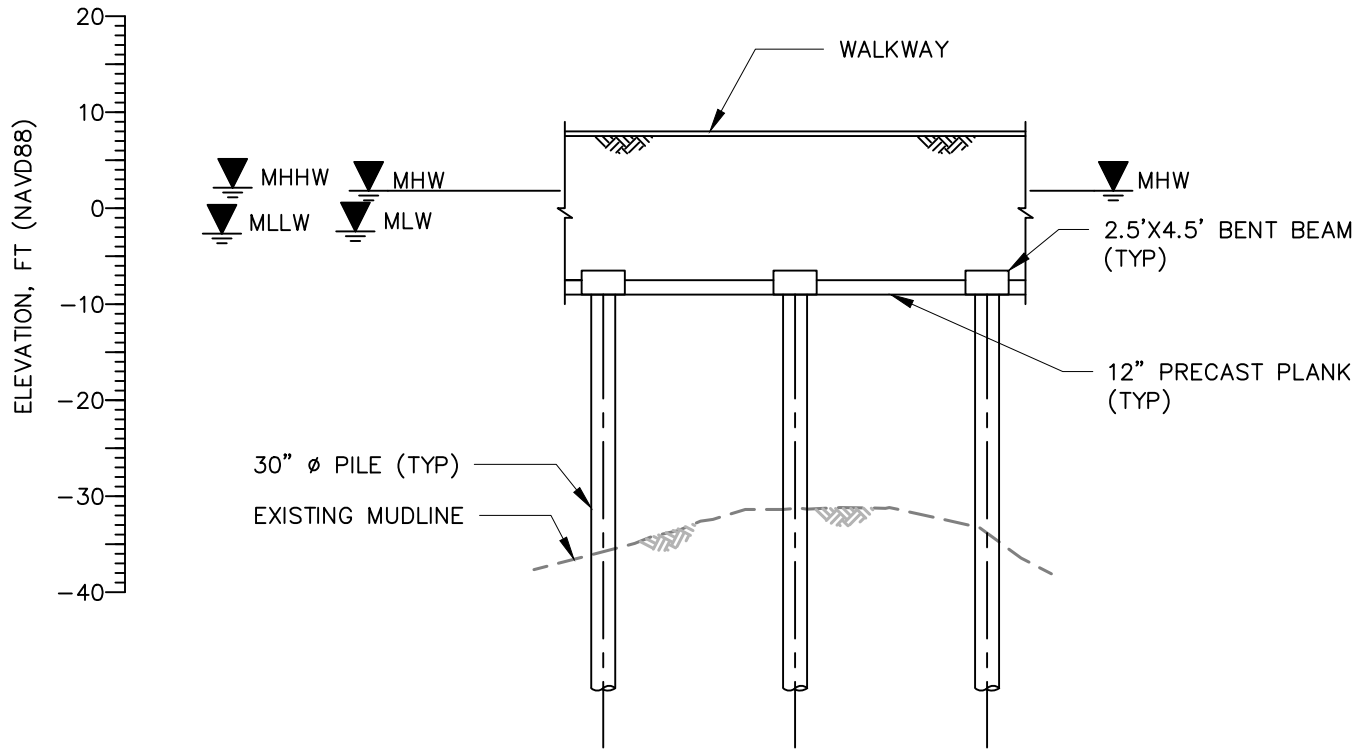
Drawing No.
W-300
Sheet 24 of 43



NOTE:
PLATFORM WIDTH VARIES FROM 26 TO 96 FT.



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	RIVER RING	PROPOSED SECTION A'	Date 03/18/2022	
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Drawn By KRW	
	KINGS NEW YORK		Checked By KH	
			Sheet 25 of 43	



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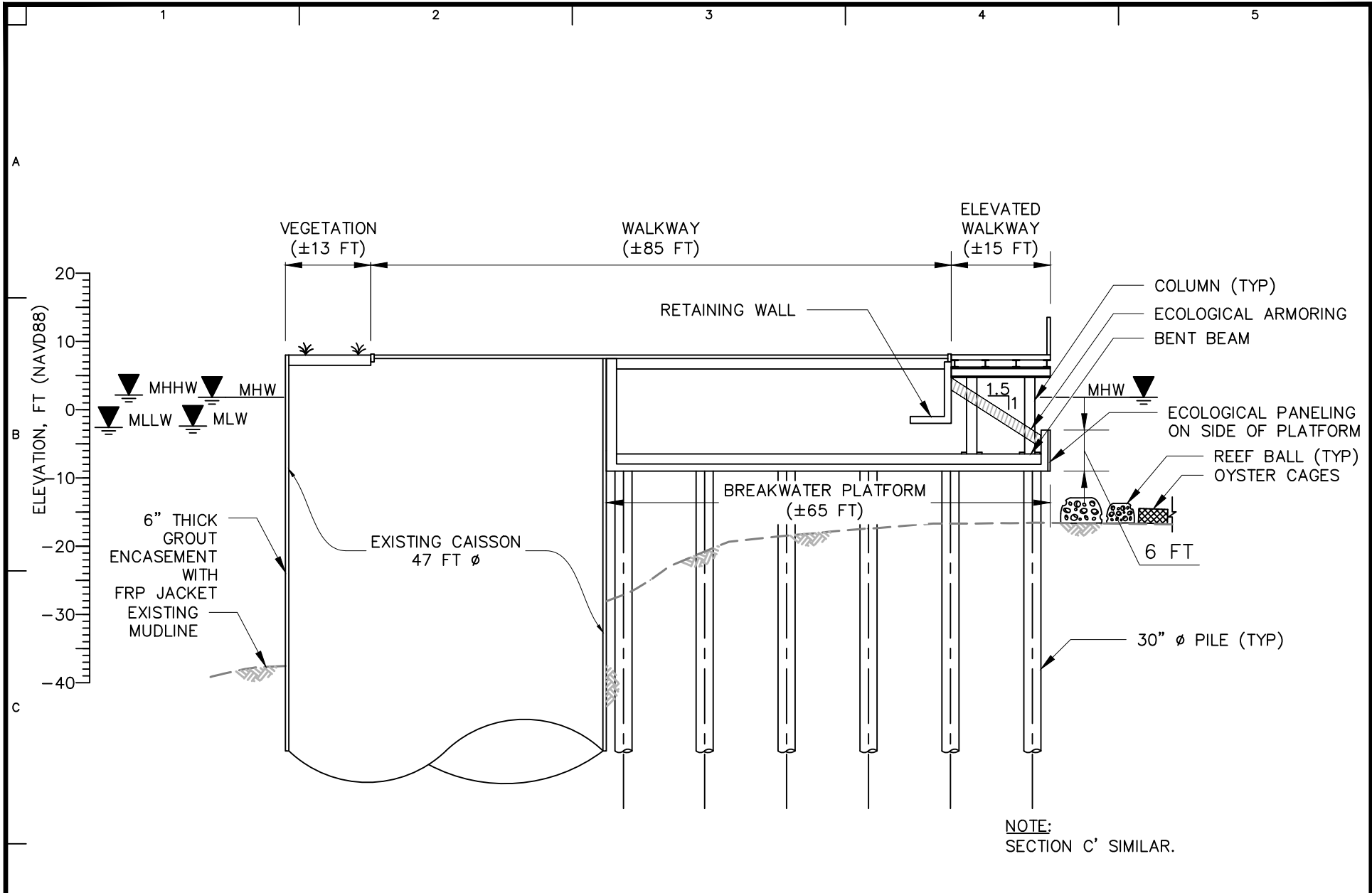
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Project
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BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

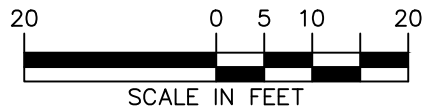
Drawing Title
PROPOSED SECTION B

Project No.
170594401
Date
03/18/2022
Drawn By
KRW
Checked By
KH

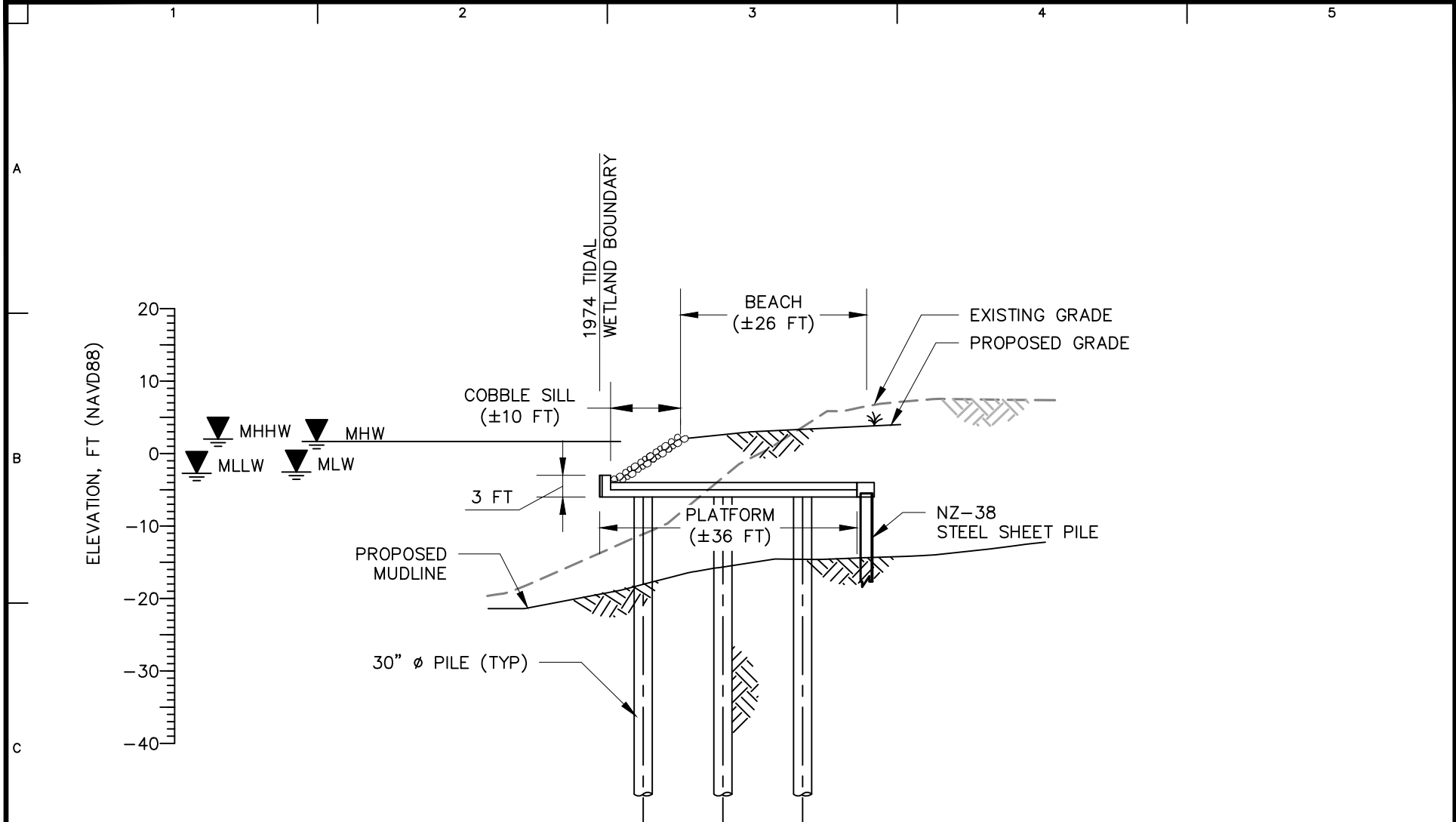
Drawing No.
W-302
Sheet 26 of 43



NOTE:
SECTION C' SIMILAR.

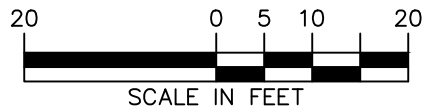


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	RIVER RING	PROPOSED SECTION C	170594401	W-303
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Date	
	KINGS NEW YORK		03/18/2022	
			Drawn By	Sheet 27 of 43
			KRW	
			Checked By	
			KH	

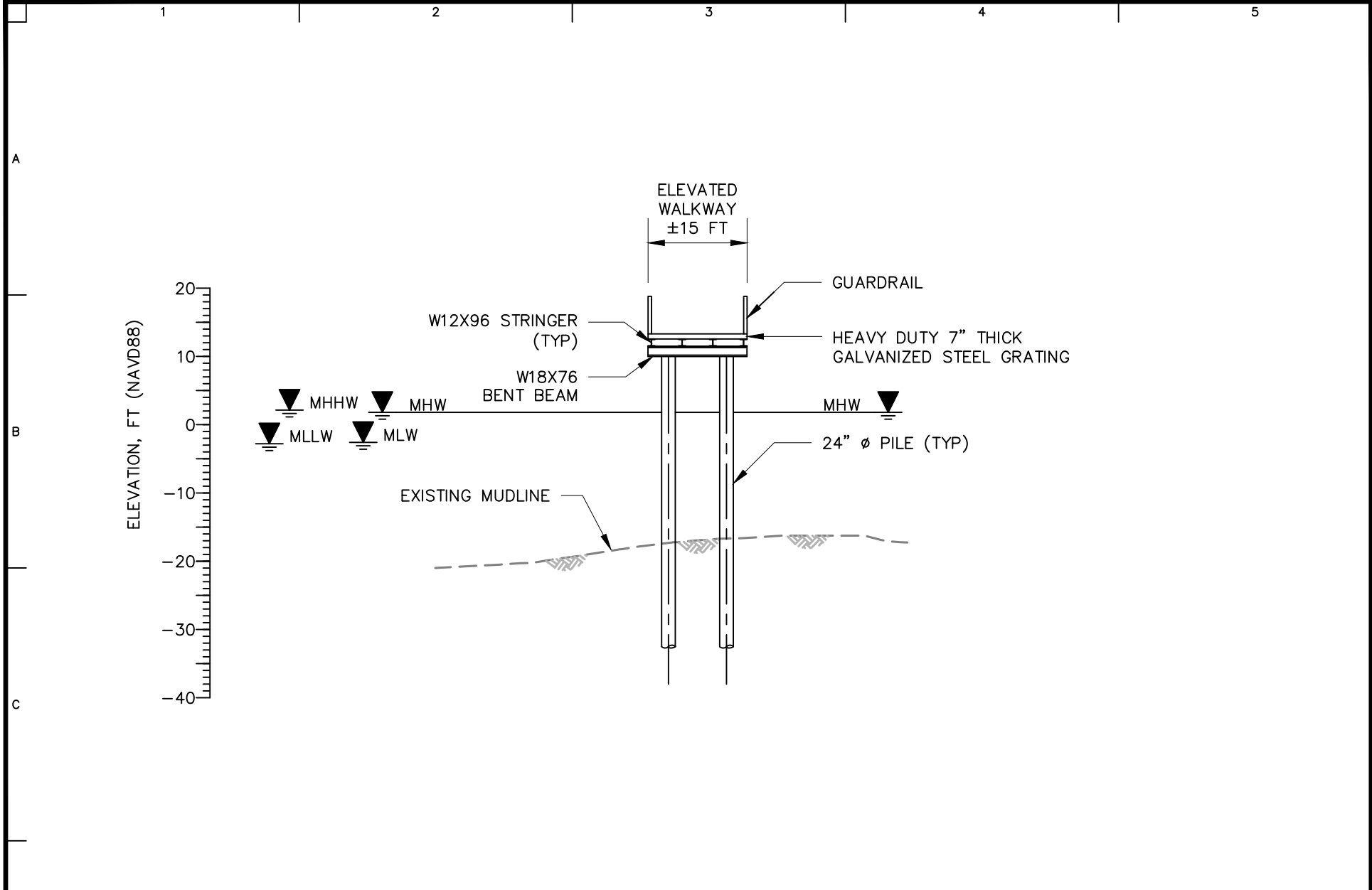


NOTES:

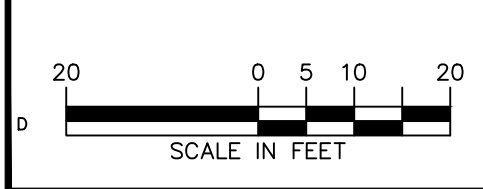
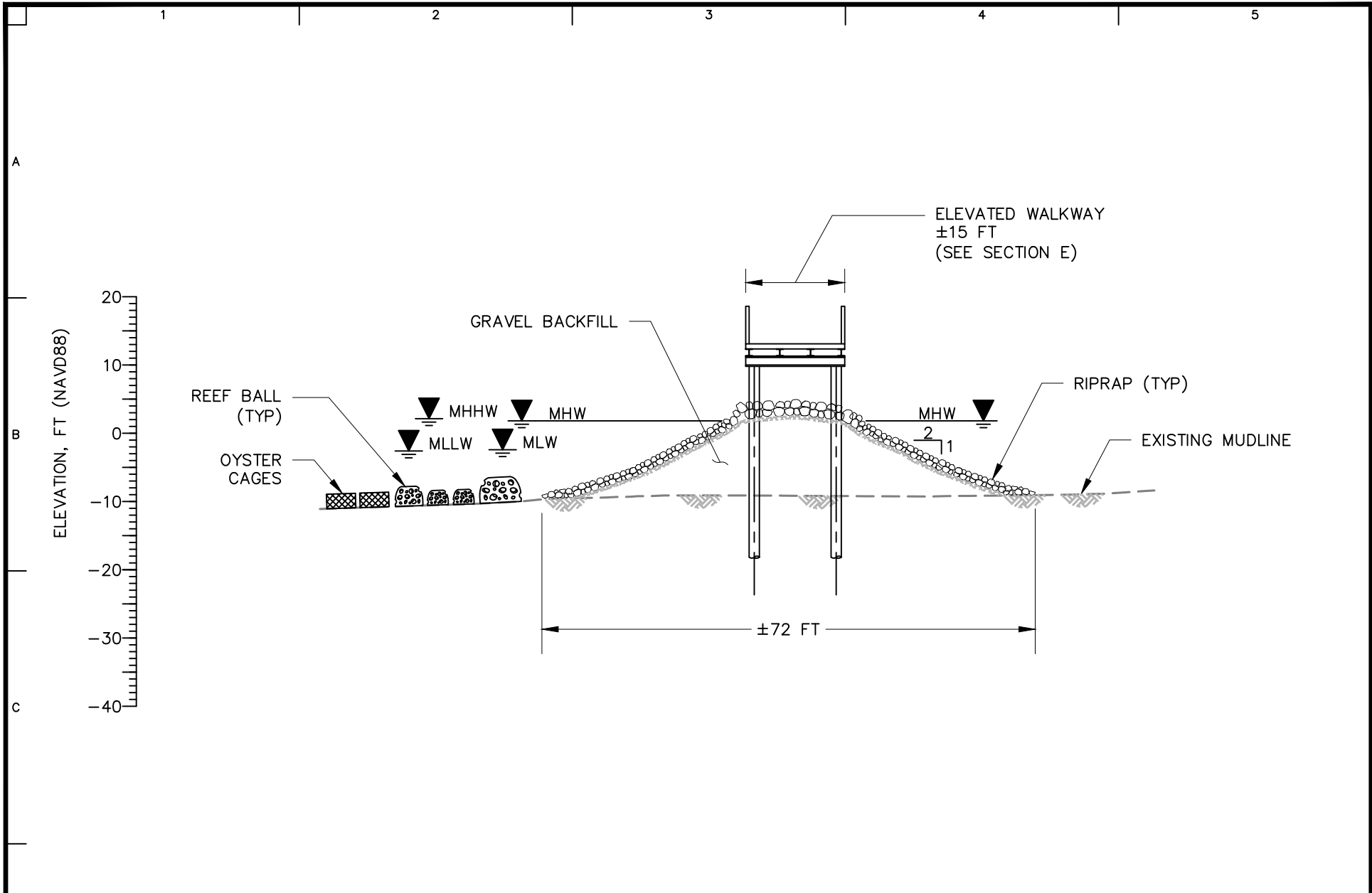
1. SECTION D' SIMILAR.
2. PLATFORM WIDTH VARIES FROM 20 TO 70 FT
3. COBBLE SILL WIDTH VARIES FROM 5 TO 15 FT.
4. BEACH WIDTH VARIES FROM 25 TO 35 FT.



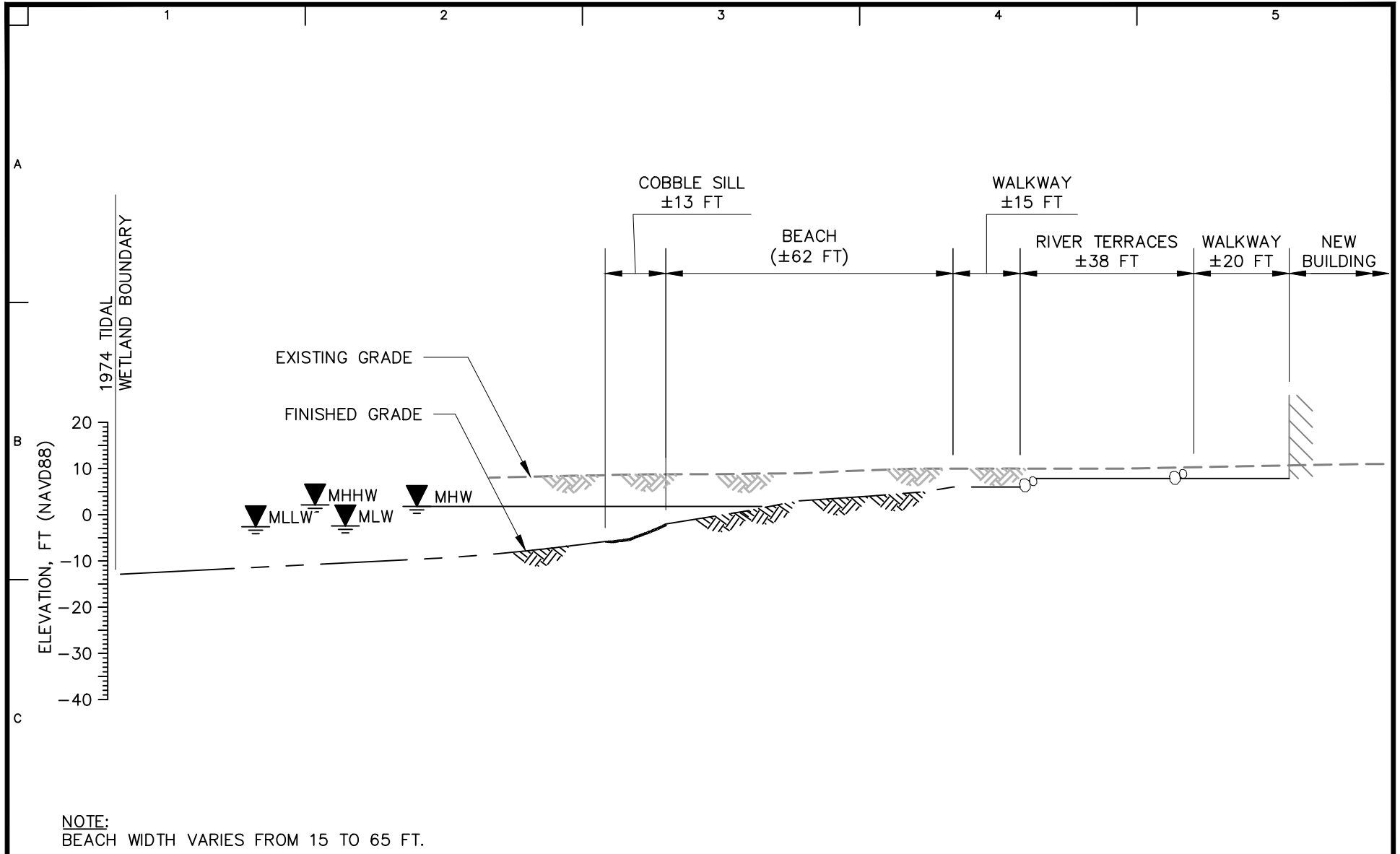
<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	Project	Drawing Title	Project No. 170594401	Drawing No. W-304 Sheet 28 of 43
	RIVER RING	PROPOSED SECTION D	Date 03/18/2022	
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Drawn By KRW	
	KINGS NEW YORK		Checked By KH	



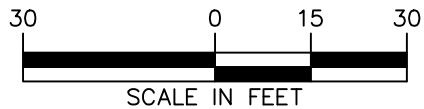
<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Project RIVER RING BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN KINGS NEW YORK</p>	<p>Drawing Title PROPOSED SECTION E</p>	<p>Project No. 170594401</p>	<p>Drawing No. W-305 Sheet 29 of 43</p>
			<p>Date 03/18/2022</p>	
			<p>Drawn By KRW</p>	
			<p>Checked By KH</p>	



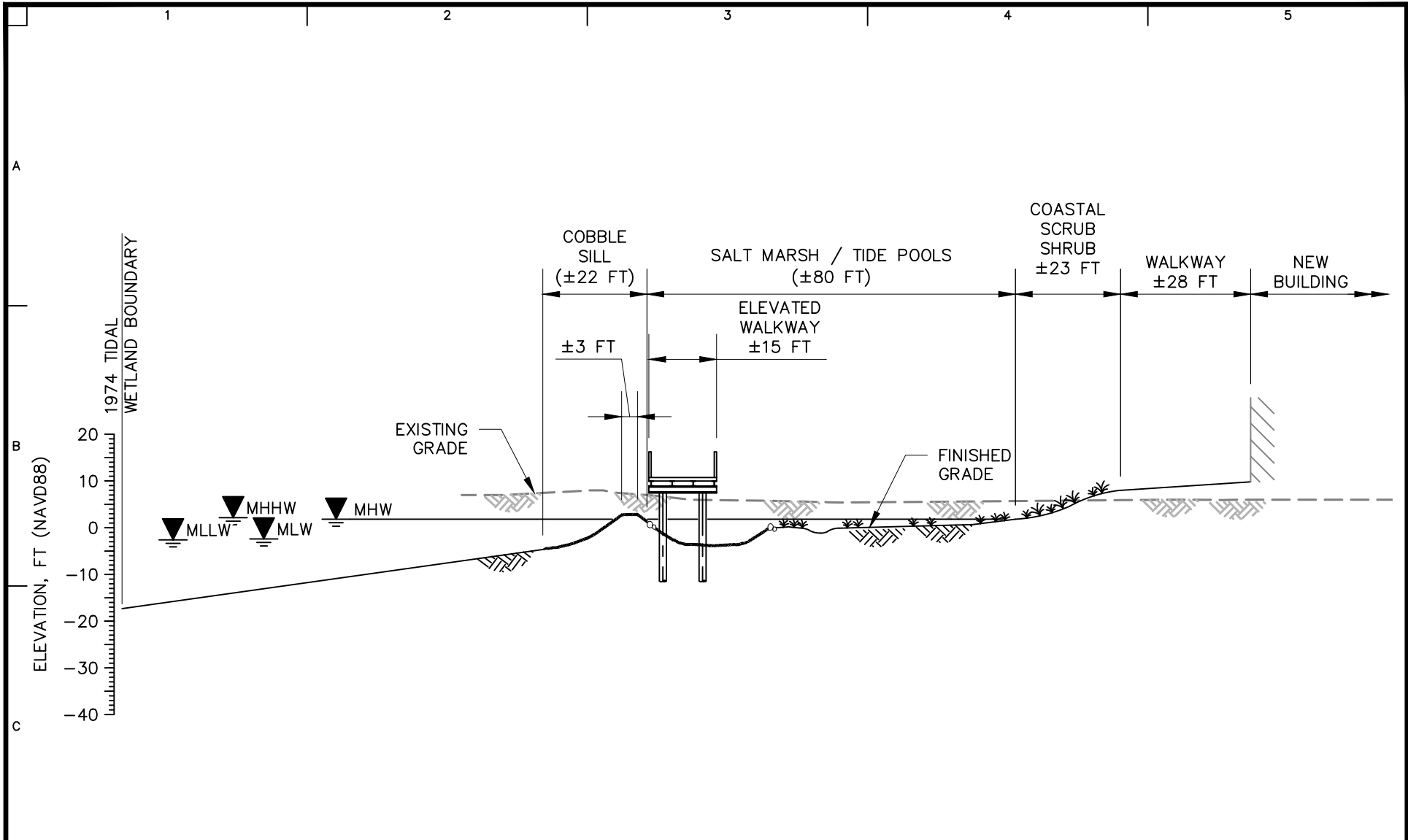
<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	Project	Drawing Title	Project No.	Drawing No.
	RIVER RING	PROPOSED SECTION F	170594401	W-306
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN NEW YORK		Date	
	KINGS		03/18/2022	
			Drawn By	Sheet 30 of 43
			KRW	
			Checked By	
			KH	



NOTE:
BEACH WIDTH VARIES FROM 15 TO 65 FT.

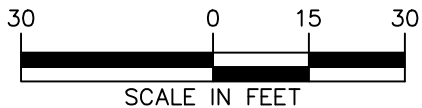


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	RIVER RING	PROPOSED SECTION G	Date 03/18/2022	W-307
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Drawn By KRW	
	KINGS NEW YORK		Checked By KH	
			Sheet 31 of 43	



NOTES:

1. COBBLE SILL WIDTH VARIES FROM 10 TO 20 FT.
2. SALT MARSH / TIDE POOLS WIDTH VARIES FROM 80 TO 100 FT.



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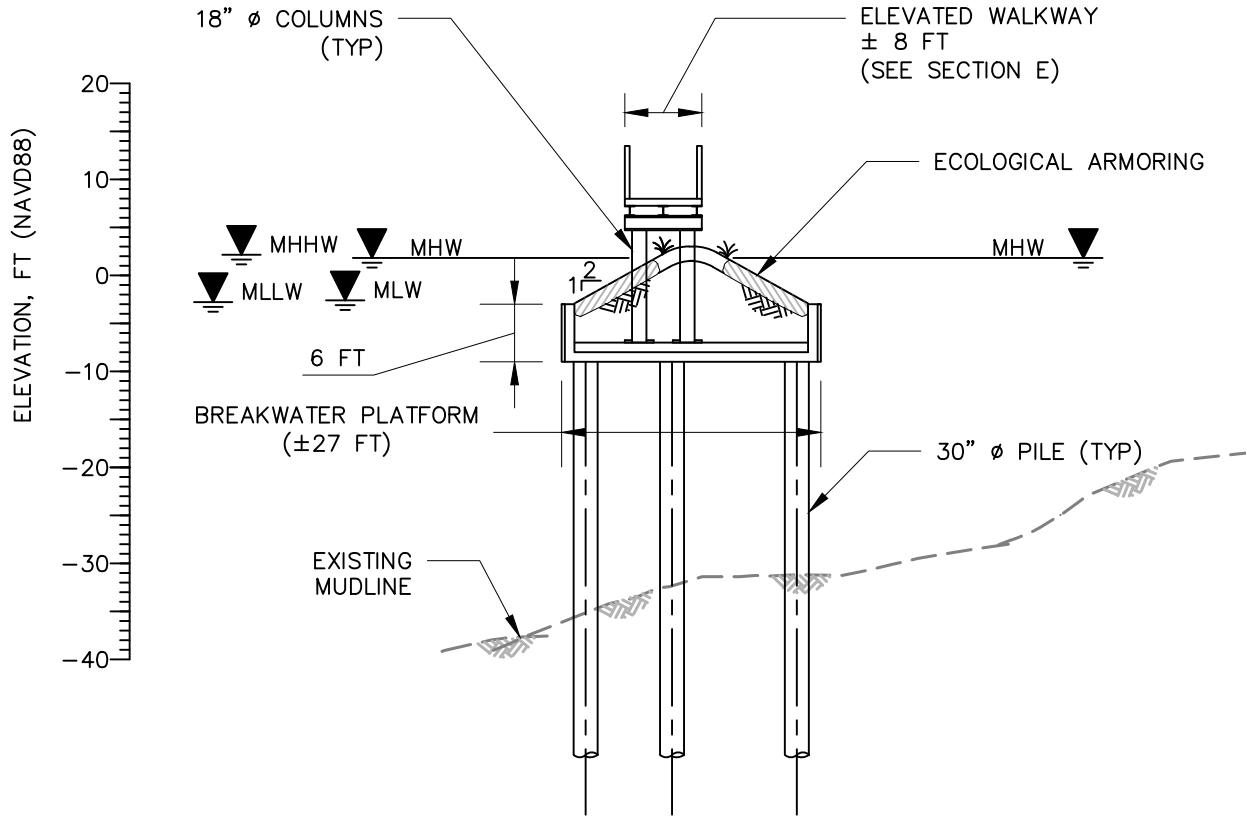
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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

Drawing Title
PROPOSED SECTION H

Project No.
170594401
Date
03/18/2022
Drawn By
KRW
Checked By
KH

Drawing No.
W-308
Sheet 32 of 43

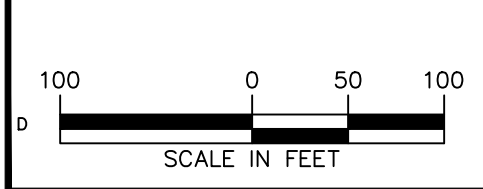
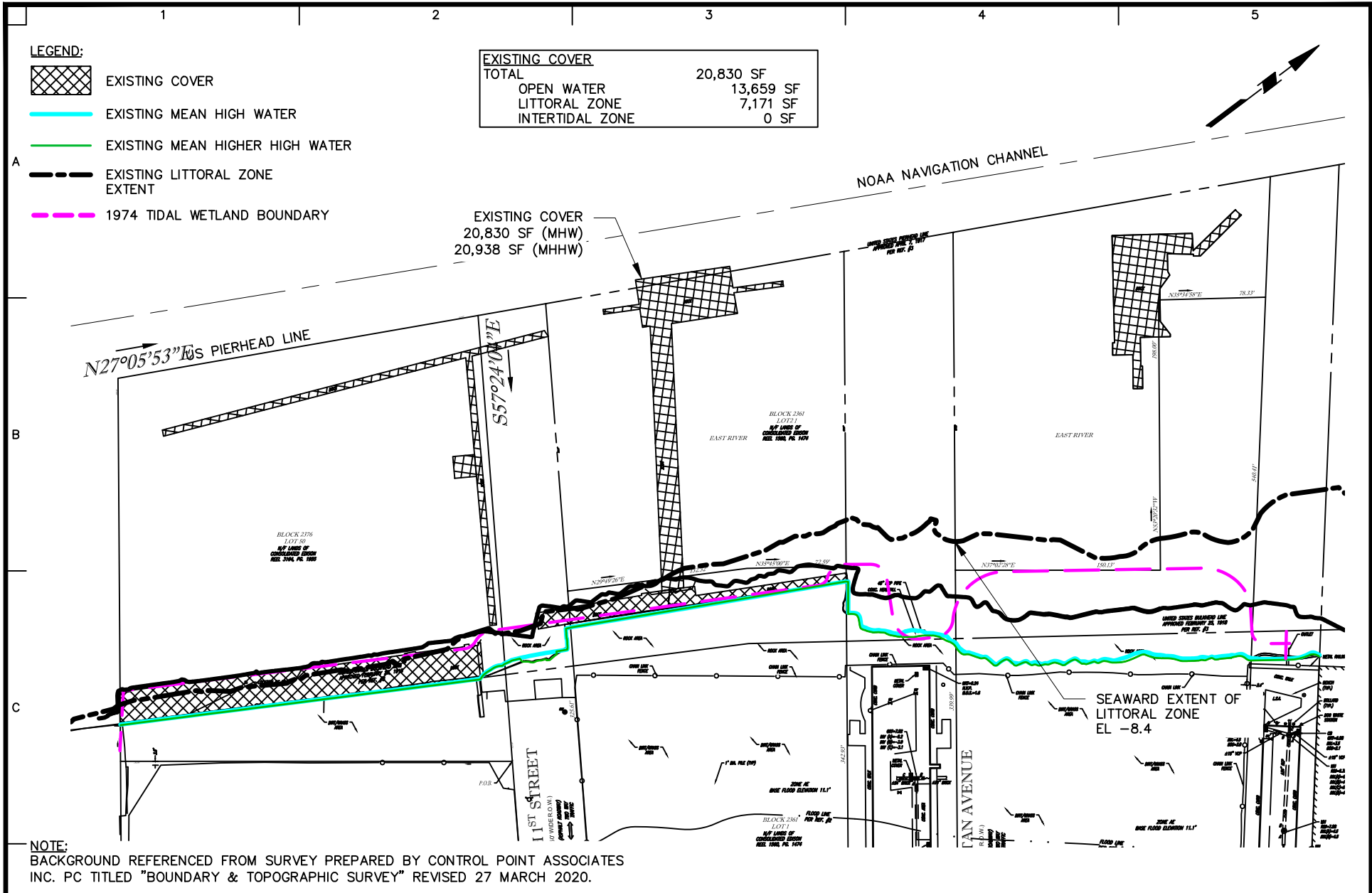


NOTE:
PLATFORM WIDTH VARIES FROM 15 TO 40 FT.



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	RIVER RING	PROPOSED SECTION I	Date 03/18/2022	
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Drawn By KRW	
	KINGS NEW YORK		Checked By KH	

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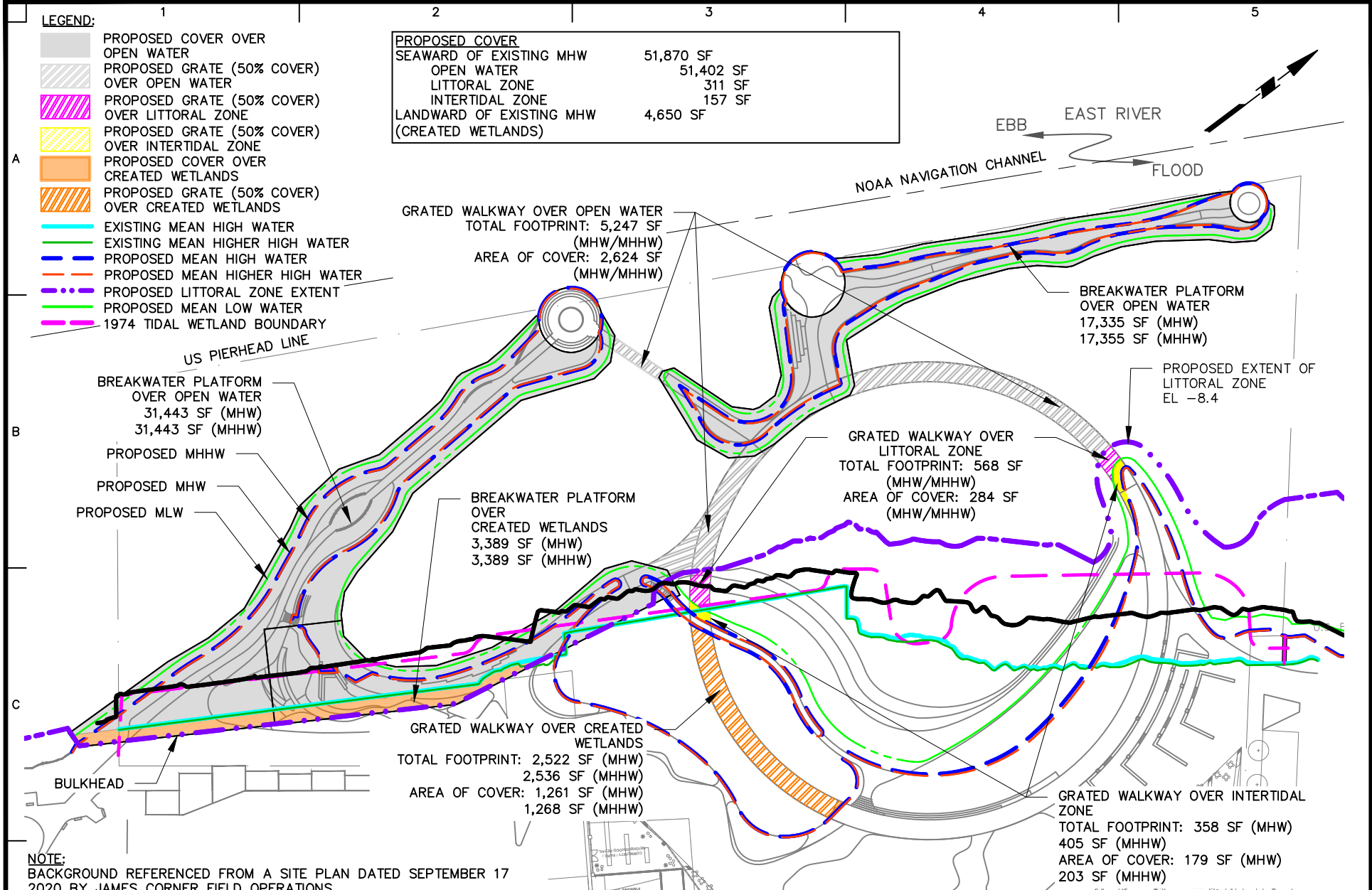
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Project
RIVER RING
 BLOCK No. 2355, LOT No. 1
 BLOCK No. 2361, LOT No. 1, 21
 BLOCK No. 2376, LOT No. 6, 50
 BROOKLYN
 NEW YORK

Drawing Title
EXISTING COVER

Project No. 170594401	Drawing No. W-501
Date 03/18/2022	
Drawn By CD	
Checked By KH	
Sheet 34 of 43	

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NOTE:
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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

Drawing Title
PROPOSED COVER

Project No. 170594401	W-502
Date 03/18/2022	
Drawn By CD	
Checked By KH	
Sheet 35 of 43	

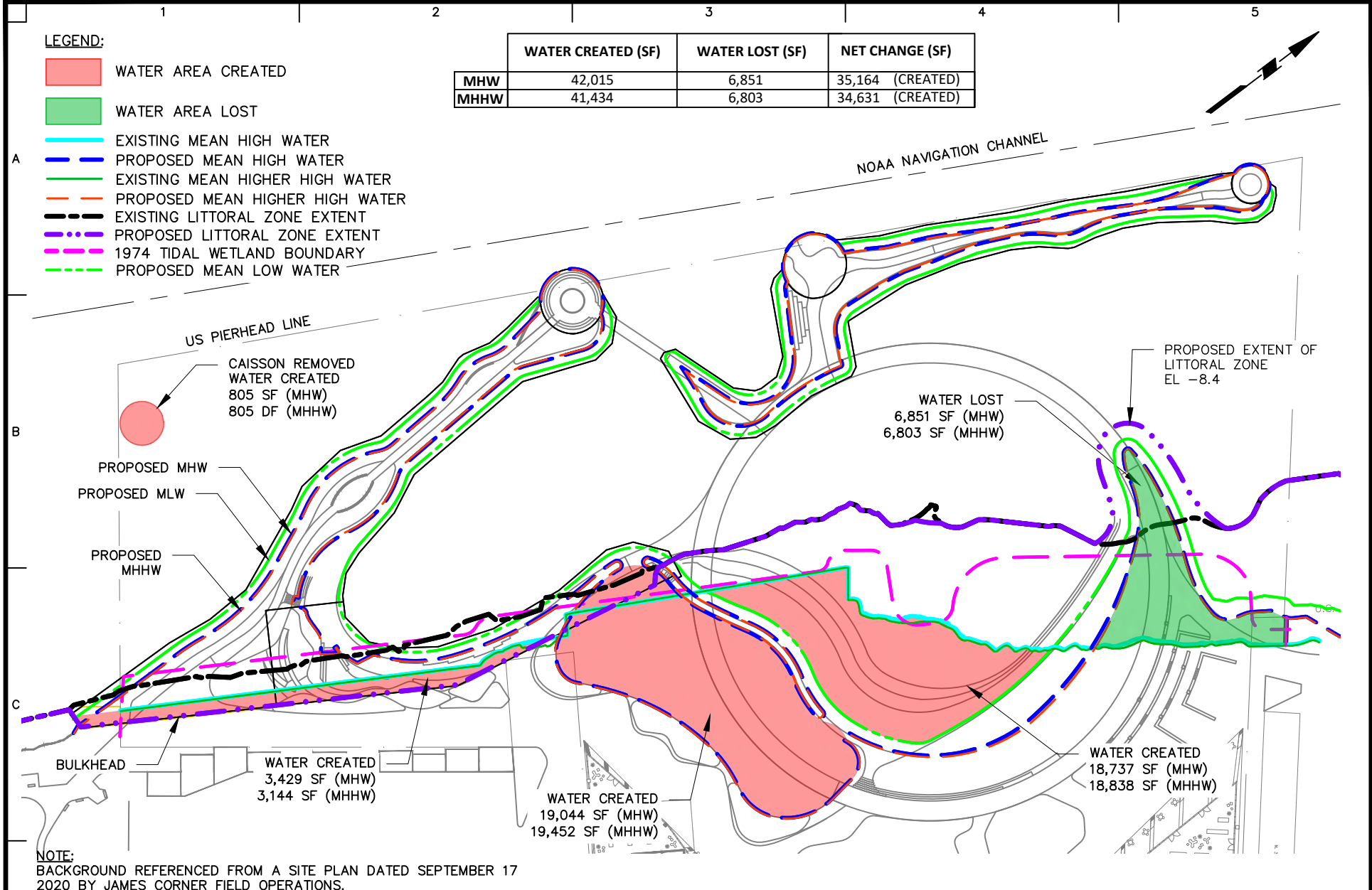
NET COVER WITH RESPECT TO MEAN HIGH WATER			
WETLAND ZONE	EXISTING (SF)	PROPOSED (SF)	NET CHANGE (SF)
OPEN WATER	13,659	51,402	37,743 (INCREASE)
LITTORAL ZONE	7,171	284	(6,887) (DECREASE)
INTERTIDAL ZONE	0	179	179 (INCREASE)
TOTAL	20,830	51,865	31,035 (INCREASE)
CREATED WETLANDS		4,650	4,650 (INCREASE)

NET COVER WITH RESPECT TO MEAN HIGHER HIGH WATER			
WETLAND ZONE	EXISTING (SF)	PROPOSED (SF)	NET CHANGE (SF)
OPEN WATER	13,659	51,402	37,743 (INCREASE)
LITTORAL ZONE	7,279	284	(6,995) (DECREASE)
INTERTIDAL ZONE	0	203	203 (INCREASE)
TOTAL	20,938	51,889	30,951 (INCREASE)
CREATED WETLANDS		4,657	4,657 (INCREASE)

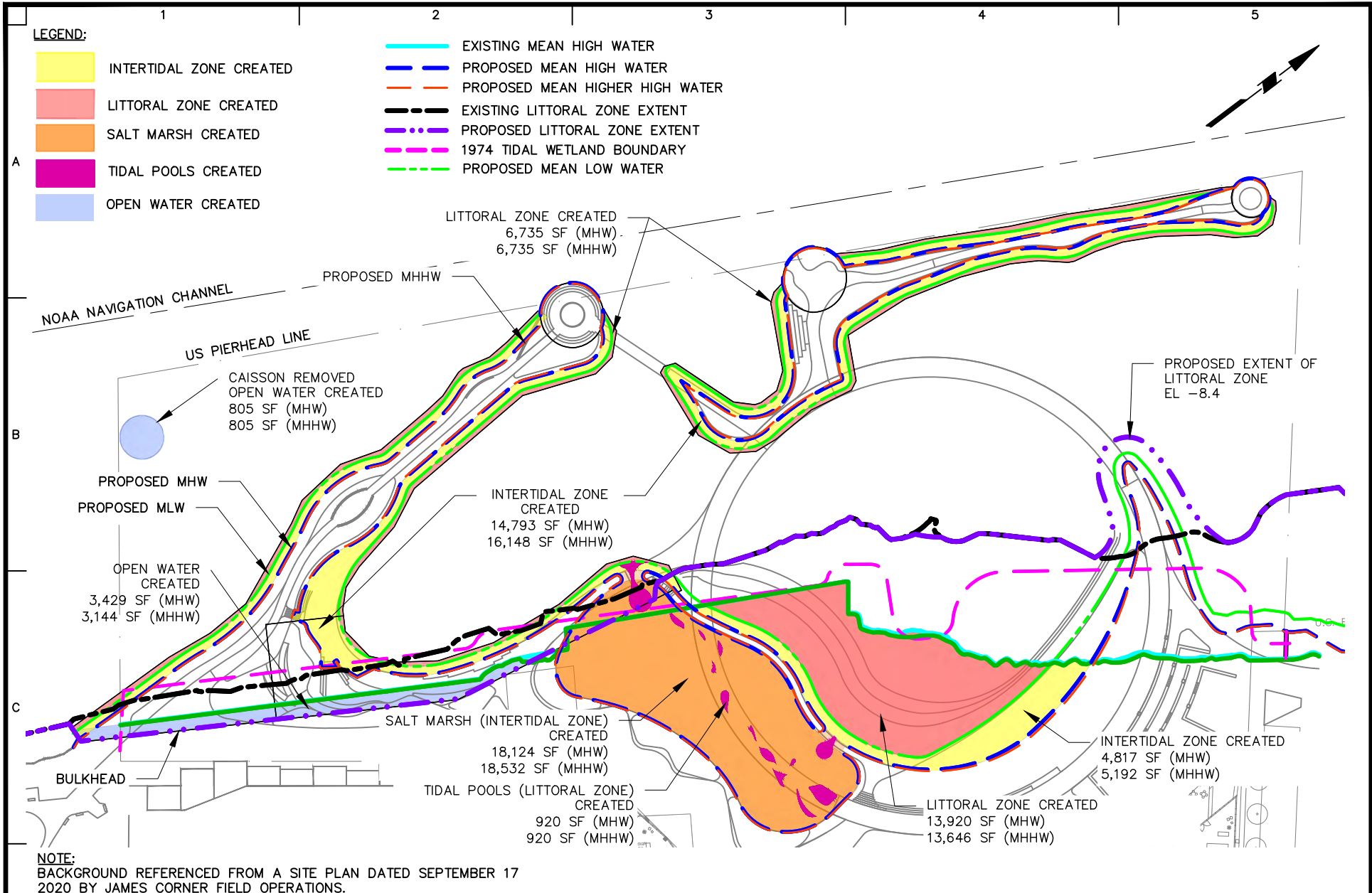
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	RIVER RING	NET COVER	170594401	W-503
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Date	
	KINGS NEW YORK		03/18/2022	
			Drawn By	Sheet 36 of 43
			CD	
			Checked By	
			KH	

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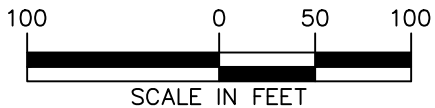
USACE FILE: NAN-2021-00531-EMI



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		<p>KINGS</p> <p>NEW YORK</p>			



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Project

RIVER RING

BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN

KINGS

NEW YORK

Drawing Title

**NEW WETLAND
ZONES CREATED
PLAN**

Project No.
170594401

Date
03/18/2022

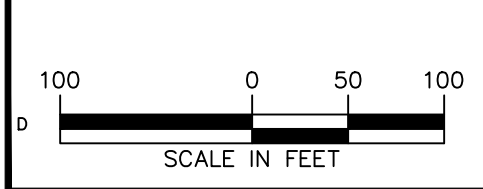
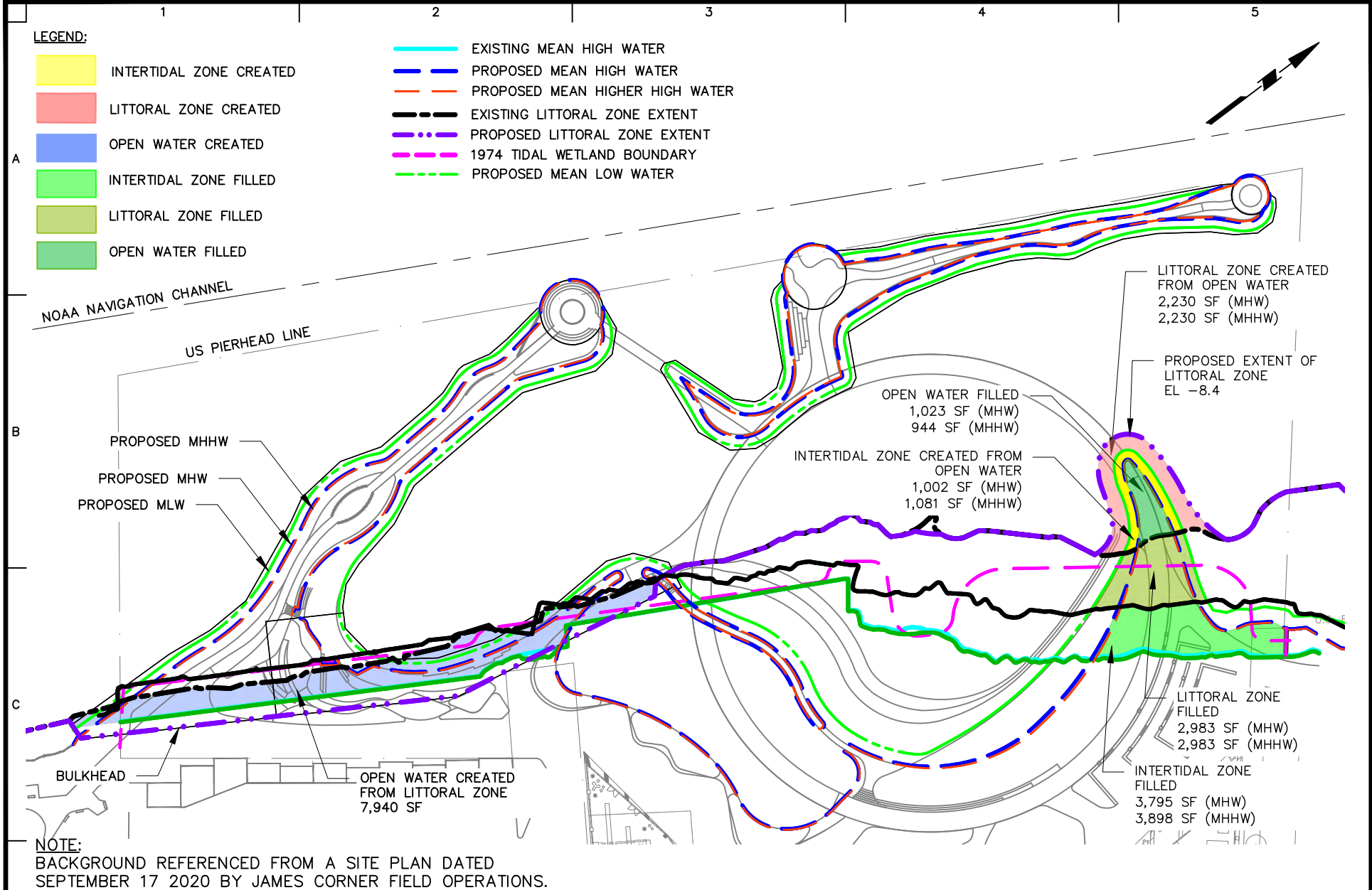
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Drawing No.

W-505

Sheet 38 of 43



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Project
RIVER RING
BLOCK No. 2355, LOT No. 1
BLOCK No. 2361, LOT No. 1, 21
BLOCK No. 2376, LOT No. 6, 50
BROOKLYN
KINGS NEW YORK

Drawing Title
CHANGES TO EXISTING WETLAND ZONES

Project No. 170594401	Drawing No. W-506
Date 03/18/2022	
Drawn By CD	
Checked By KH	
Sheet 39 of 43	

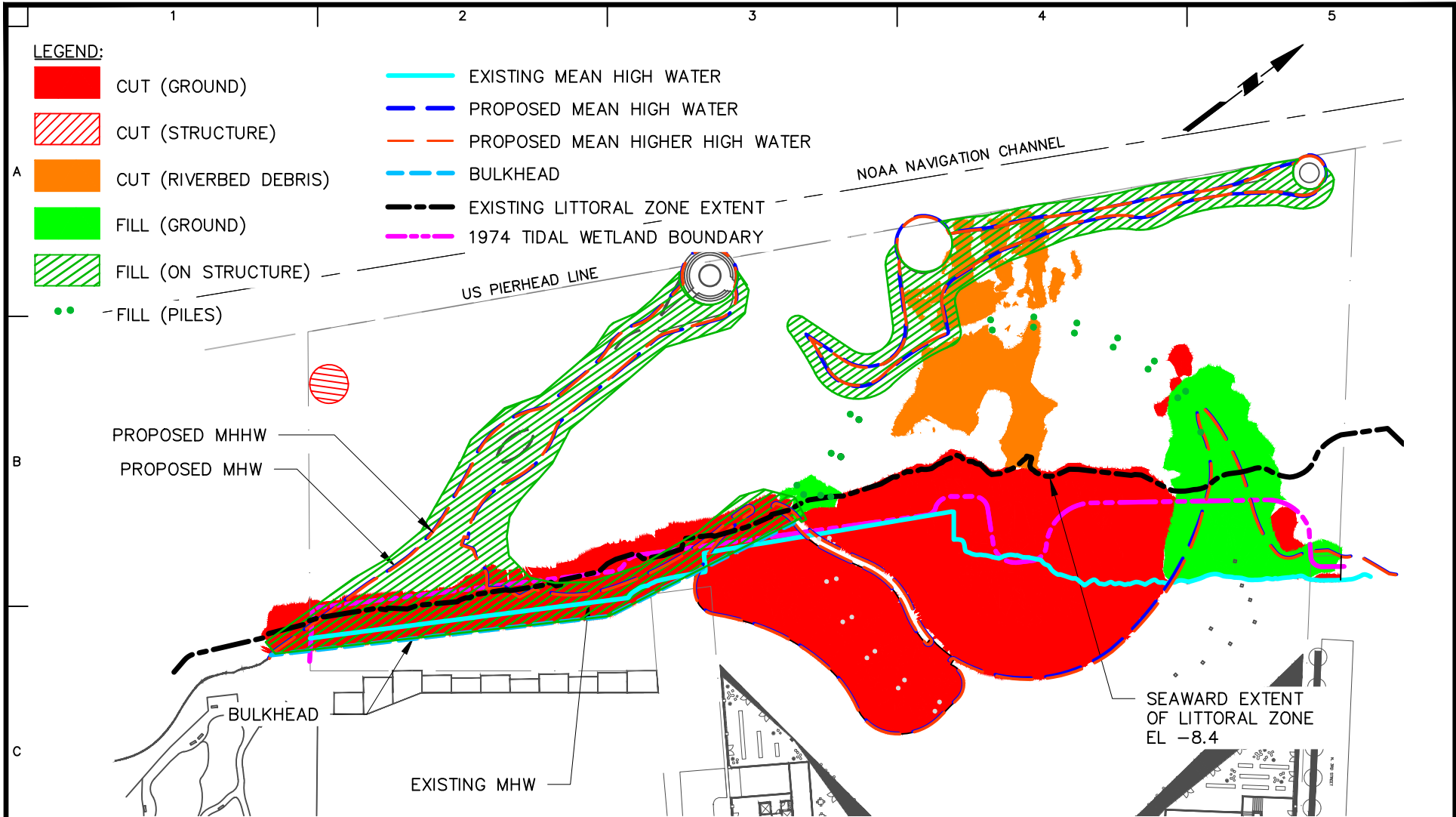
WETLAND AREAS WITH RESPECT TO MEAN HIGH WATER				
WETLAND ZONE	NEW ZONES CREATED (SF) SEE W-505	CHANGES TO EXISTING WETLAND ZONES (SF) SEE W-506	EXISTING ZONES FILLED (SF) SEE W-506	NET CHANGE (SF)
OPEN WATER	4,234	4,708	(1,023)	7,919 (CREATED)
LITTORAL ZONE	20,655	(5,710)	(2,983)	11,962 (CREATED)
INTERTIDAL ZONE	19,610	1,002	(3,795)	16,817 (CREATED)
SALT MARSH	18,124			18,124 (CREATED)
TIDAL POOLS	920			920 (CREATED)
TOTAL	63,543	0	7,801	55,742 (CREATED)

WETLAND AREAS WITH RESPECT TO MEAN HIGHER HIGH WATER				
WETLAND ZONE	NEW ZONES CREATED (SF) SEE W-505	CHANGES TO EXISTING WETLAND ZONES (SF) SEE W-506	EXISTING ZONES FILLED (SF) SEE W-506	NET CHANGE (SF)
OPEN WATER	3,949	4,808	(944)	7,813 (CREATED)
LITTORAL ZONE	20,381	(5,889)	(2,983)	11,509 (CREATED)
INTERTIDAL ZONE	21,340	1,081	(3,898)	16,739 (CREATED)
SALT MARSH	18,532			18,532 (CREATED)
TIDAL POOLS	920			920 (CREATED)
TOTAL	65,122	0	7,825	55,513 (CREATED)

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	RIVER RING	NEW WETLAND ZONES SUMMARY TABLE	170594401	W-507
	BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN		Date 03/18/2022	
	KINGS NEW YORK		Drawn By CD	Sheet 40 of 43
			Checked By KH	

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NOTES:

- BACKGROUND REFERENCED FROM A SITE PLAN DATED SEPTEMBER 17 2020 BY JAMES CORNER FIELD OPERATIONS.
- REEF STRUCTURES ON RIVER BOTTOM ARE NOT SHOWN IN PLAN BUT ARE INCLUDED AS AN ALLOWANCE IN THE CUT/FILL VOLUME TABLE ON W-509.
- EXISTING PILES TO BE REMOVED AND NEW PILES TO BE INSTALLED FOR THE BREAKWATER PLATFORMS ARE NOT SHOWN IN PLAN BUT ARE INCLUDED IN THE CUT/FILL VOLUME TABLE ON W-509.
- FILL (ON STRUCTURE) REFERS TO FILL PLACED ABOVE THE BREAKWATER PLATFORMS. OPEN WATER REMAINS BENEATH THE PLATFORMS (I.E. FILL DOES NOT EXTEND TO RIVER BOTTOM).


<p>SCALE IN FEET</p>	<p>LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Project RIVER RING BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN KINGS NEW YORK</p>	<p>Drawing Title NET CUT/FILL PLAN</p>	<p>Project No. 170594401</p>	<p>Drawing No. W-508</p>
				<p>Date 03/18/2022</p>	
				<p>Checked By KH</p>	<p>Sheet 41 of 43</p>

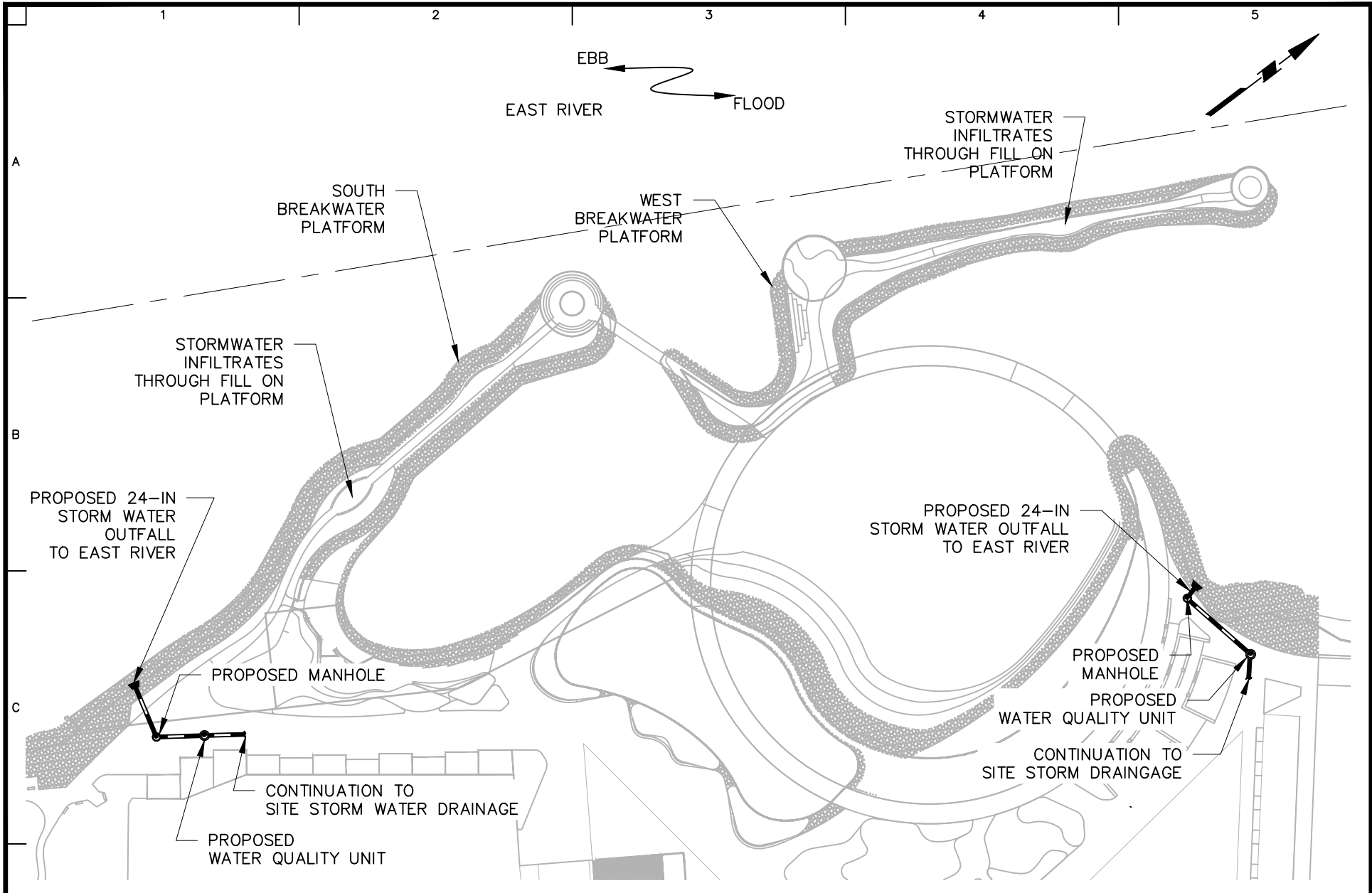
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		NET VOLUME (CY) MHW	NET VOLUME (CY) MHHW	
A	Ex. Cofferdam Removed	-1097	-1109	
	Ex. Piles Removed	-187	-192	
	Riverbed Debris Removed	-674	-674	
	West Breakwater Platform	5965	6076	
	South Breakwater Platform	9428	9765	
	Breakwater Piles (See Note 1)	790	790	
	Boardwalk Piles (See Note 2)	61	62	
	Marsh and Tidal Pools	-3546	-3726	
	B	River Bottom		
		Cove	-11664	-11574
Groin		2343	2445	
Bulkhead	-5977	-5977		
Cofferdam Concrete Encasement	288	294		
Net Volume (CY)	-4270	-4000		
C	Reefs (allowance)	1695	1695	
	Net Volume (CY)	-2575	-2305	

NOTES:

1. THE TOTAL CONCRETE FILL FOR BREAKWATER PILES BELOW MHW AND MHHW IS 738 CY.
2. THE TOTAL CONCRETE FILL FOR BOARDWALK PILES BELOW MHW AND MHHW ARE 54 AND 55 CY RESPECTIVELY.

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			BLOCK No. 2355, LOT No. 1 BLOCK No. 2361, LOT No. 1, 21 BLOCK No. 2376, LOT No. 6, 50 BROOKLYN			Date 03/18/2022	W-509
		KINGS	NEW YORK			Drawn By CD	
						Checked By KH	
						Sheet 42 of 43	



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Project
RIVER RING
 BLOCK No. 2355, LOT No. 1
 BLOCK No. 2361, LOT No. 1, 21
 BLOCK No. 2376, LOT No. 6, 50
 BROOKLYN
 KINGS NEW YORK

Drawing Title
OUTFALL PLAN

Project No.
 170594401
 Date
 03/18/2022
 Drawn By
 CD
 Checked By
 KH

Drawing No.
CS101
 Sheet 43 of 43

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PLANTING SCHEDULE (PLANT QUANTITIES BY TREE SPECIES)

PLANTING SCHEDULE	PLANT QUANTITIES BY TREE SPECIES
<p>PLANTING SCHEDULE</p> <p>PLANT QUANTITIES BY TREE SPECIES</p> <p>PLANTING SCHEDULE</p> <p>PLANT QUANTITIES BY TREE SPECIES</p>	<p>PLANT QUANTITIES BY TREE SPECIES</p> <p>PLANTING SCHEDULE</p> <p>PLANT QUANTITIES BY TREE SPECIES</p> <p>PLANTING SCHEDULE</p> <p>PLANT QUANTITIES BY TREE SPECIES</p>

NOTES:
1. PLANT QUANTITIES SHOWN HERE DO NOT INCLUDE PLANTINGS WITHIN NYPA PLANTING ZONE - ALTERNATE PLAN.

NOTES:
1. LSGDB - LARGE SCALE GENERAL DEVELOPMENT BOUNDARY, AS SHOWN ON SHEET L-100-001
2. QUANTITIES SHOWN HERE ARE OVERESTIMATIONS AND WILL VARY BASED ON NUMBER OF TREE PLANTINGS.



ZONING LEGEND

[Symbol]	SPW	SHORE PUBLIC WALKWAY
[Symbol]	SPAA	SUPPLEMENTAL PUBLIC ACCESS AREA
[Symbol]	PIERS	PUBLIC ACCESS AREA
[Symbol]	PAA	PUBLIC ACCESS AREA
[Symbol]	V.C.	VISUAL CORRIDOR
[Symbol]		PIERHEAD LINE
[Symbol]		U.S. BULKHEAD LINE
[Symbol]		MEAN HIGH WATER
[Symbol]		ZONING LOT LINE
[Symbol]		LARGE SCALE GENERAL DEVELOPMENT BOUNDARY
[Symbol]		15' ENTRY ZONE
[Symbol]		12' CLEAR PATH
[Symbol]		PLATFORM

NOTE:
1. BUILDING FLOOR PLANS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

GENERAL NOTES

- Applicant's stamp and seal correspond to the information regarding the waterfront open space design with the proposed LSGDB. Information regarding the proposed building and surrounding properties is for illustrative purposes only. Refer to waterfront drawings for proposed building details.
- Show trees adjacent to the zoning lot wall to provide in accordance with the zoning lot location and number of which shall be subject to NYC Department of Parks and Recreation.
- All improvements shall be subject to approval by the NYC Department of Parks and Recreation.
- All street improvements are subject to approval by the NYC Department of Transportation.
- 5' buffer materials and mounds and systems can be used for all groups. Right-of-way, site knowledge and drawings at discretion of landscape architect.

LANDSCAPE LEGEND

[Symbol]	LOW MARSH
[Symbol]	HIGH MARSH
[Symbol]	EELGRASS
[Symbol]	TRANSITIONAL UPLAND PLANTING ZONE
[Symbol]	COASTAL SCRUB SHRUB
[Symbol]	NYPA PLANTING
[Symbol]	LAWN
[Symbol]	PERF-PAVE - ECOLOGICAL REPAIRING UNITS
[Symbol]	PERF-PAVE - COBBLE
[Symbol]	BEACH

RIVER RING

RIVER STREET
WILLIAMSBURG, BROOKLYN, NY

DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]

DATE: [Date]
SCALE: 1" = 10'-0"

PLANTING PLAN

SUBMERGED HABITAT - ALL ZONES

ITEM	QTY	UNIT	COV. AREA	WALL VOLUME	WALL SURFACE AREA	WALL WEIGHT
REF BALL (GROSS)	105		2,241	36	2,241	42
PALLET BALL (GROSS)	140		2,847	72	2,847	141
REF BALL (NET)	90		2,202	36	2,202	42
OYSTER GABION PYRAMID STRUCTURE	64		4,202	NA	4,202	435
SINKAL OYSTER GABION CONNECTION	58		483	NA	483	38
TOTAL REF BALL QUANTITY	300					
TOTAL REF BALL COVERAGE AREA (SQ)	7,195					
TOTAL REF BALL FILL VOLUME (CONCRETE ONLY, CY)	374					
TOTAL REF BALL FILL VOLUME (FULL SOLID FORM, CY)	445					
TOTAL OYSTER GABION QUANTITY	130					
TOTAL OYSTER GABION COVERAGE AREA (SQ)	4,734					
TOTAL OYSTER GABION FILL VOLUME (FULL SOLID FORM, CY)	473					

NOTES:
1. REF BALL AND OYSTER GABION QUANTITY TO BE VERIFIED BY MARINE ENGINEER.

USAGE FILE: NAN-2021-00531-EMI

REVISION / ISSUANCE	
NO.	DESCRIPTION / DATE
1	ISSUE FOR PERMITS / 2.18.21
2	ISSUE FOR PERMITS / 2.18.21
3	CFR MODIFICATION / 2.11.21

ZONING LEGEND

- SHORE PUBLIC WALKWAY
- SUPPLEMENTAL PUBLIC ACCESS AREA
- PIERS
- PUBLIC ACCESS AREA
- VISUAL CORRIDOR
- PIER-HEAD LINE
- U.S. BULKHEAD LINE
- MEAN HIGH WATER
- ZONING LOT LINE
- LARGE SCALE GENERAL DEVELOPMENT BOUNDARY
- 15' ENTRY ZONE
- 12' CLEAR PATH
- PLATFORM

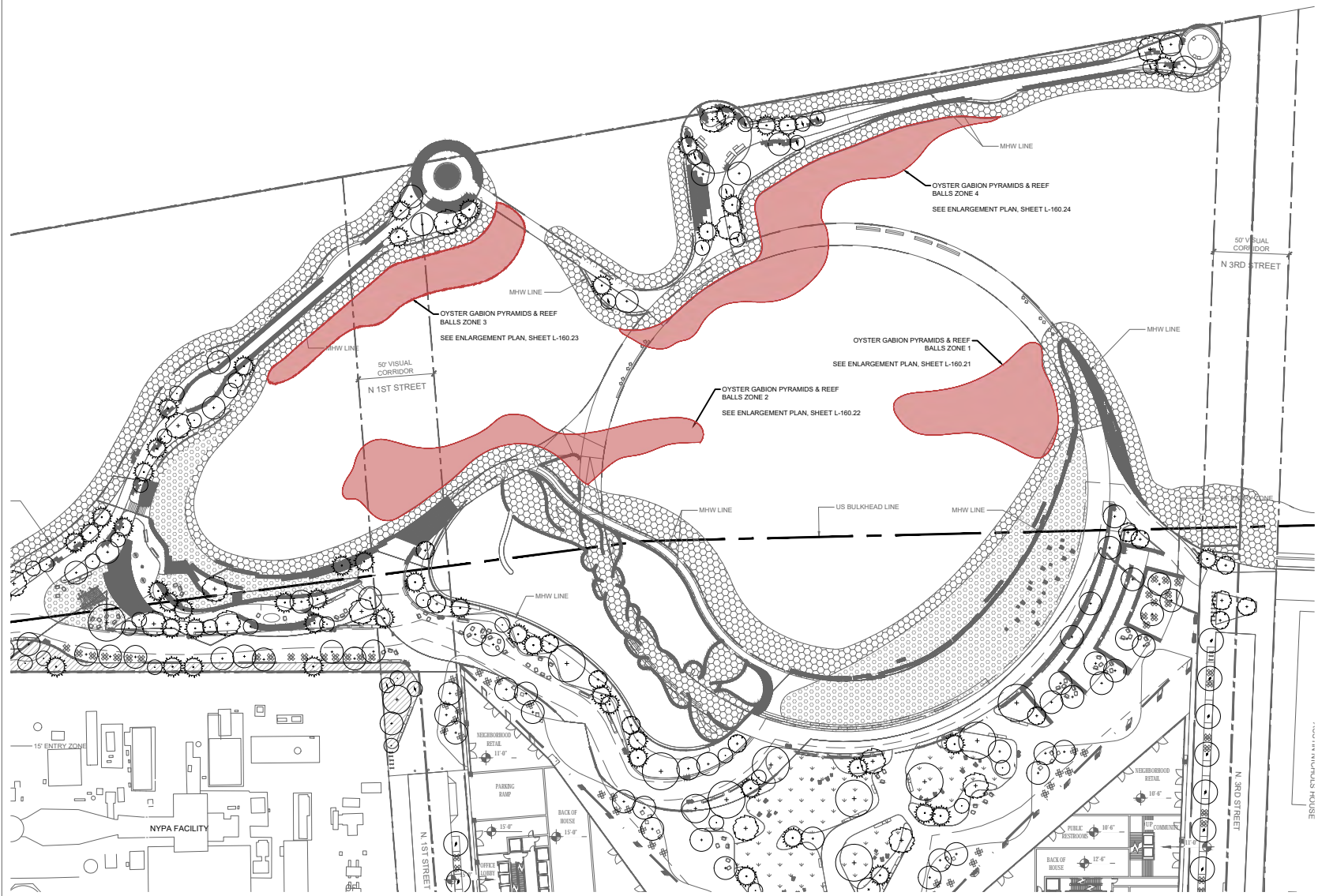
NOTE:
1. BUILDING FLOOR PLANS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

GENERAL NOTES

- Architect's stamp and seal correspond to the information regarding the submitted open space design within the proposed LSCD. Information regarding the proposed buildings and surrounding properties is for illustrative purposes only. Refer to architectural drawings for proposed building details.
- Street trees adjacent to the zoning lot will be provided in accordance with C2C 25-41. The location and number of street trees will be subject to NYC Department of Parks and Recreation.
- All improvements within and adjacent to the Grand Ferry Park are subject to approval by NYC Department of Parks and Recreation.
- All street improvements are subject to approval by the NYC Department of Transportation.
- Similar materials and models and spaces can be used for all furniture, light fixtures, site furnishings and plantings at discretion of landscape architect.

LANDSCAPE LEGEND

- REF BALLS/OYSTER GABIONS
- NYPA PLANTING
- LAWN
- RIP-RAP + ECOLOGICAL
- ABBREVIATED LINE DOUBLE
- BEACH
- SEATING W/O BACK
- SEATING W/ BACK
- MOVABLE SEATING
- MOVABLE TABLE & CHAIR
- BINE BACK
- TRASH RECEPTACLES
- WPAA ENTRANCE SIGN
- SEATING OPEN TO PUBLIC SIGN
- SALVAGED MOORING ELEMENT
- LANDSCAPE BOULDERS
- SHADE CANOPY TREE - LARGE
- SHADE CANOPY TREE - SMALL
- ORNAMENTAL / MULTI-STEMMED TREE
- CONIFEROUS TREE
- SHRUB
- EXISTING TREE (GRAND FERRY PARK)



LANDSCAPE ARCHITECT
JAMES CORNELL FIELD OPERATIONS
475 Third Ave, 9th Floor, New York, NY 10016
TWO TREES / DEVELOPER
45 MAIN ST. 12F, BROOKLYN, NY 11201
MARKS INGELS GROUP
45 MAIN ST. 9F, BROOKLYN, NY 11201

RIVER RING
RIVER STREET
WILLAMSBURG, BROOKLYN, NY
11205

DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]

SUBMERGED HABITAT PLAN
160.20

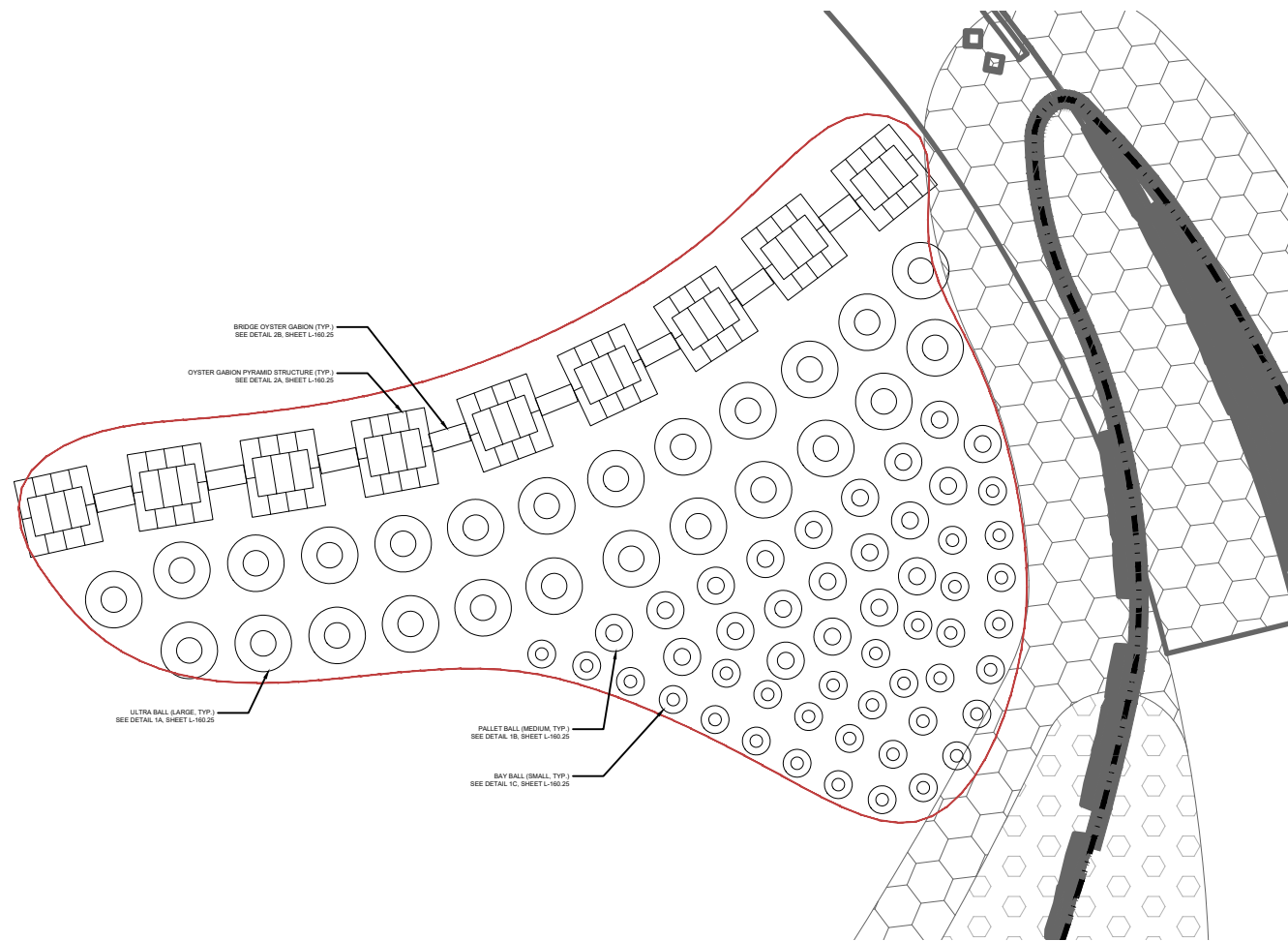
USACE FILE: NAN-2021-00531-EMI

STR. TYPE	HTY	SPQR	HTY	HTY	HTY	HTY	HTY
BAY BALL (SMALL)	20	200					
PALLET BALL (MEDIUM)	20	200					
ULTRA BALL (LARGE)	20	200					
OSTER GABION PYRAMID STRUCTURE	9	600	N/A				
SINGLE OSTER GABION CONNECTION	6	60					
TOTAL REEF BALL QUANTITY		77					
TOTAL REEF BALL COVERAGE AREA (SF)		1,426					
TOTAL REEF BALL FILL VOLUME (CONCRETE ONLY, CY)		55					
TOTAL REEF BALL FILL VOLUME (FULL SOLID FORM, CY)		95					
TOTAL OSTER GABION QUANTITY		17					
TOTAL OSTER GABION COVERAGE AREA (SF)		667					
TOTAL OSTER GABION VOLUME (FULL SOLID FORM, CY)		55					

NOTES:
1. REEF BALL AND OSTER GABION QUANTITY TO BE VERIFIED BY MARINE ENGINEER.



KEY PLAN - SCALE: NTS



REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	ISSUE FOR PERMIT	2/18/21
2	ISSUE FOR PERMIT	2/18/21
3	CFR MODIFICATION	2/11/21

ZONING LEGEND

- SPW SHORE PUBLIC WALKWAY
- SPAA SUPPLEMENTAL PUBLIC ACCESS AREA
- PIERS
- PAA PUBLIC ACCESS AREA
- V.C. VISUAL CORRIDOR
- PIERHEAD LINE
- U.S. BULKHEAD LINE
- MEAN HIGH WATER
- ZONING LOT LINE
- LARGE SCALE GENERAL DEVELOPMENT BOUNDARY
- 15' ENTRY ZONE
- 12' CLEAR PATH
- PLATFORM

NOTE:
1. BUILDING FLOOR PLANS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

- GENERAL NOTES**
1. Architect's stamp and seal correspond to the information regarding the submitted open space design within the proposed LSCD. Information regarding the proposed buildings and surrounding properties is for illustrative purposes only. Refer to architectural drawings for proposed building details.
 2. Street trees adjacent to the zoning lot shall be provided in accordance with 24-241. The location and number of street trees shall be subject to NYC Department of Parks and Recreation.
 3. All improvements within and adjacent to the Grand Ferry Park are subject to approval by NYC Department of Parks and Recreation.
 4. All street improvements are subject to approval by the NYC Department of Transportation.
 5. Street furniture, and models and spaces can be used for all furniture, light fixtures, site furnishings and plantings at discretion of landscape architect.

LANDSCAPE LEGEND

- REEF BALLS/OSTER GABIONS
- NYPA PLANTING
- LAWN
- RIP-RAP + ECOLOGICAL
- ADVERSELY AFFECTED
- BEACH
- SEATING W/ BACK
- SEATING W/O BACK
- MOVABLE SEATING
- MOVABLE TABLE & CHAIR
- BIKE RACK
- TRASH RECEPTACLES
- WPAA ENTRANCE SIGN
- SEATING OPEN TO PUBLIC SIGN
- LANDSCAPE BOULDERS
- SHADE CANOPY TREE - LARGE
- SHADE CANOPY TREE - SMALL
- ORNAMENTAL / MULTI-STEMMED TREE
- CONIFEROUS TREE
- SHRUB
- EXISTING TREE (GRAND FERRY PARK)

LANDSCAPE ARCHITECT
JAMES CORNIG FIELD OPERATIONS
475 Third Ave, 9th Floor, New York, NY 10016

TWO TREES / DEVELOPER
45 MAIN ST. 12F, BROOKLYN, NY 11201

MARKS INGELS GROUP
45 MAIN ST. 9F, BROOKLYN, NY 11201

RIVER RING
RIVER STREET
WILLAMSBURG, BROOKLYN, NY
11222

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

SCALE: 1" = 10'-0"

SUBMERGED HABITAT PLAN
ZONE 1 ENLARGEMENT PLAN

SUBMERGED HABITAT - ZONE 2

STR. TYPE	QTY	COVER. AREA (SQ. FT.)	VOLUME (CY)	WET WEIGHT (TONS)	WET WEIGHT (CY)
RAY BALL (SMALL)	40	250	10	10	40
PALLET BALL (MEDIUM)	40	840	24	24	40
ULTRA BALL (LARGE)	10	200	11	11	10
OYSTER GABION PYRAMID STRUCTURE	10	1,200	NA	NA	120
BRIDGE OYSTER GABION CONNECTION	10	120	NA	NA	10
TOTAL REEF BALL QUANTITY			126		
TOTAL REEF BALL COVER. AREA (SQ. FT.)		2,120			
TOTAL REEF BALL VOL. (CONCRETE ONLY, CY)		50			
TOTAL REEF BALL VOL. (TOTAL SOLID FORM, CY)		116			
TOTAL OYSTER GABION QUANTITY		30			
TOTAL OYSTER GABION COVER. AREA (SQ. FT.)		1,320			
TOTAL OYSTER GABION VOL. (TOTAL SOLID FORM, CY)		120			

NOTE:
1. REEF BALL AND OYSTER GABION QUANTITY TO BE VERIFIED BY MARINE ENGINEER.

USACE FILE: NAN-2021-00531-EMI



KEY PLAN - SCALE: NTS

REVISION / ISSUANCE	
NO.	DESCRIPTION / DATE
1	ISSUANCE 2/18/21
2	REVISION 2/18/21
3	REV. MODIFICATION 2/11/21

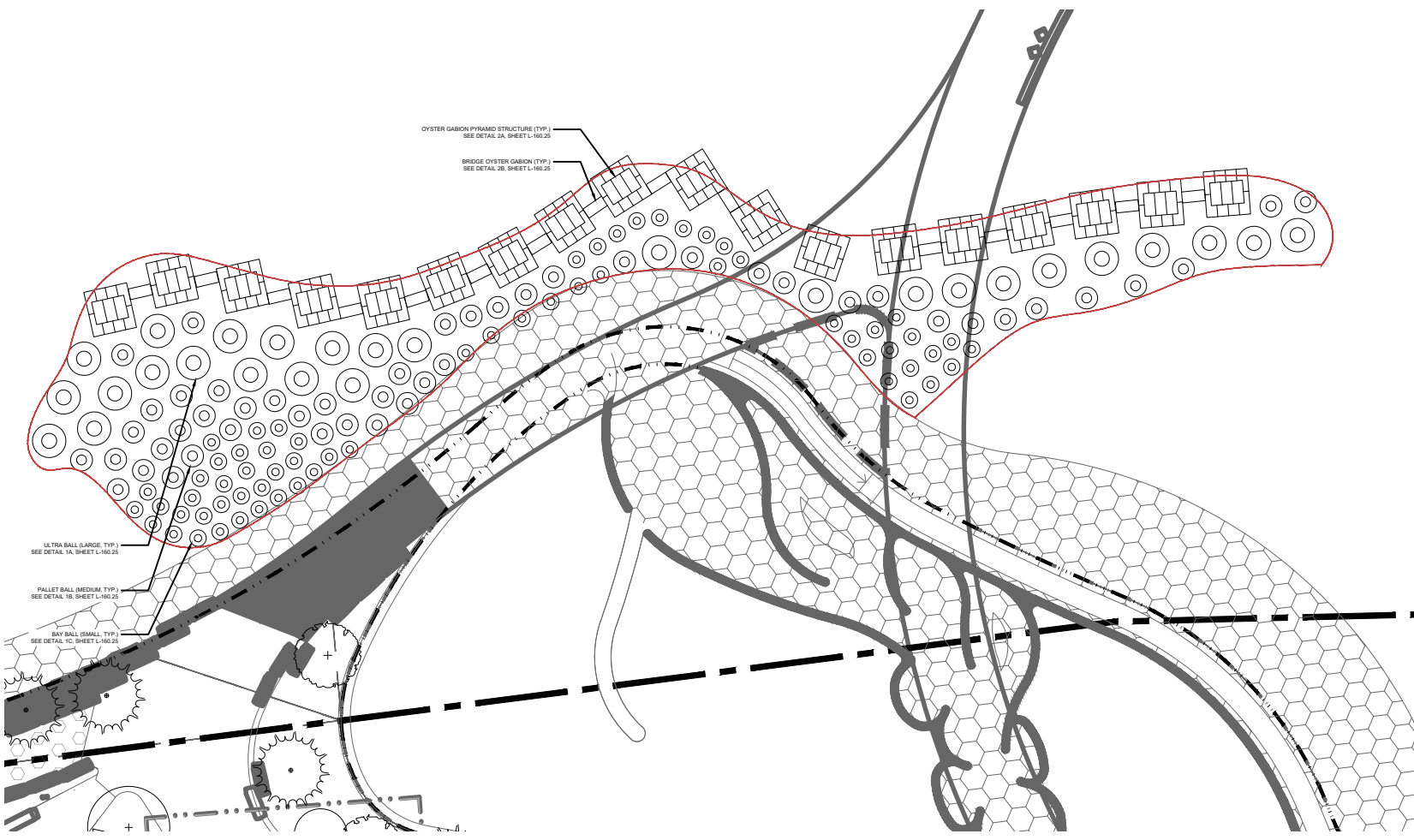
NOTE:
1. BUILDING FLOOR PLANS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

GENERAL NOTES

1. Architect's stamp and seal correspond to the information regarding the authorized open space design within the proposed LSOD. Information regarding the proposed buildings and surrounding properties is for illustrative purposes only. Refer to architectural drawings for proposed building details.
2. Street trees adjacent to the zoning lot shall be provided in accordance with DC 24-41. The location and number of trees shall be subject to NYC Department of Parks and Recreation.
3. All improvements within and adjacent to the Great Ferry Park are subject to approval by NYC Department of Parks and Recreation.
4. All street improvements are subject to approval by the NYC Department of Transportation.
5. Similar materials and models and spaces can be used for all furniture, light fixtures, site furnishings and plantings at discretion of landscape architect.

LANDSCAPE LEGEND

	REEF BALLS/OYSTER GABIONS
	NYPA PLANTING
	LAWN
	RIP-RAP + ECOLOGICAL RETENTION (IF POSSIBLE)
	BEACH
	SEATING W/ BACK
	SEATING W/O BACK
	MOVABLE SEATING
	MOVABLE TABLE & CHAIR
	BIKE RACK
	TRASH RECEPTACLES
	WPAA ENTRANCE SIGN
	SEATING OPEN TO PUBLIC SIGN
	SALVAGED MOORING ELEMENT
	LANDSCAPE BOULDERS
	SHADE CANOPY TREE - LARGE
	SHADE CANOPY TREE - SMALL
	ORNAMENTAL / MULTI-STEMMED TREE
	CONIFEROUS TREE
	SHRUB
	EXISTING TREE (GRAND FERRY PARK)



LANDSCAPE ARCHITECT:
JAMES CORNIG FIELD OPERATIONS
475 Third Ave, 9th Floor, New York, NY 10018
TWO TREES / DEVELOPER
45 MAIN ST, 12F, BROOKLYN, NY 11201
BLARKE INGELS GROUP
45 MAIN ST, 9F, BROOKLYN, NY 11201

PROJECT NAME:
RIVER RING
RIVER STREET
WILLAMSBURG, BROOKLYN, NY
11205

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

VERT. N/A
HORIZ. 1" = 100'

SUBMERGED HABITAT PLAN
ZONE 2 ENLARGEMENT PLAN

SUBMERGED HABITAT - ZONE 3

STR. TYPE	QUANTITY	AREA SQ. FT.	VOLUME CU. YD.	FILE NO.	DATE
BAY BALL (SMALL)	25	215	12	10/12/17	2/18/18
PALETT BALL BRIDGES	25	491	12	10/12/17	2/18/18
BAY BALL (LARGE)	15	232	12	10/12/17	2/18/18
OSTER GABION PYRAMID STRUCTURE	15	1,000	NA	10/12/17	2/18/18
SINGLE OYSTER GABION CONNECTION	14	113	NA	10/12/17	2/18/18
TOTAL REEF BALL QUANTITY	73				
TOTAL REEF BALL COVERAGE AREA (SQ. FT.)		2,249			
TOTAL REEF BALL FILL VOLUME (CONCRETE ONLY, CYS)		31			
TOTAL REEF BALL FILL VOLUME (BALL SOLID FORM, CYS)		78			
TOTAL OYSTER GABION QUANTITY		29			
TOTAL OYSTER GABION COVERAGE AREA (SQ. FT.)		1,317			
TOTAL OYSTER GABION VOLUME (BALL SOLID FORM, CYS)		111			

NOTES:
1. REEF BALL AND OYSTER GABION QUANTITY TO BE VERIFIED BY MARINE ENGINEER.

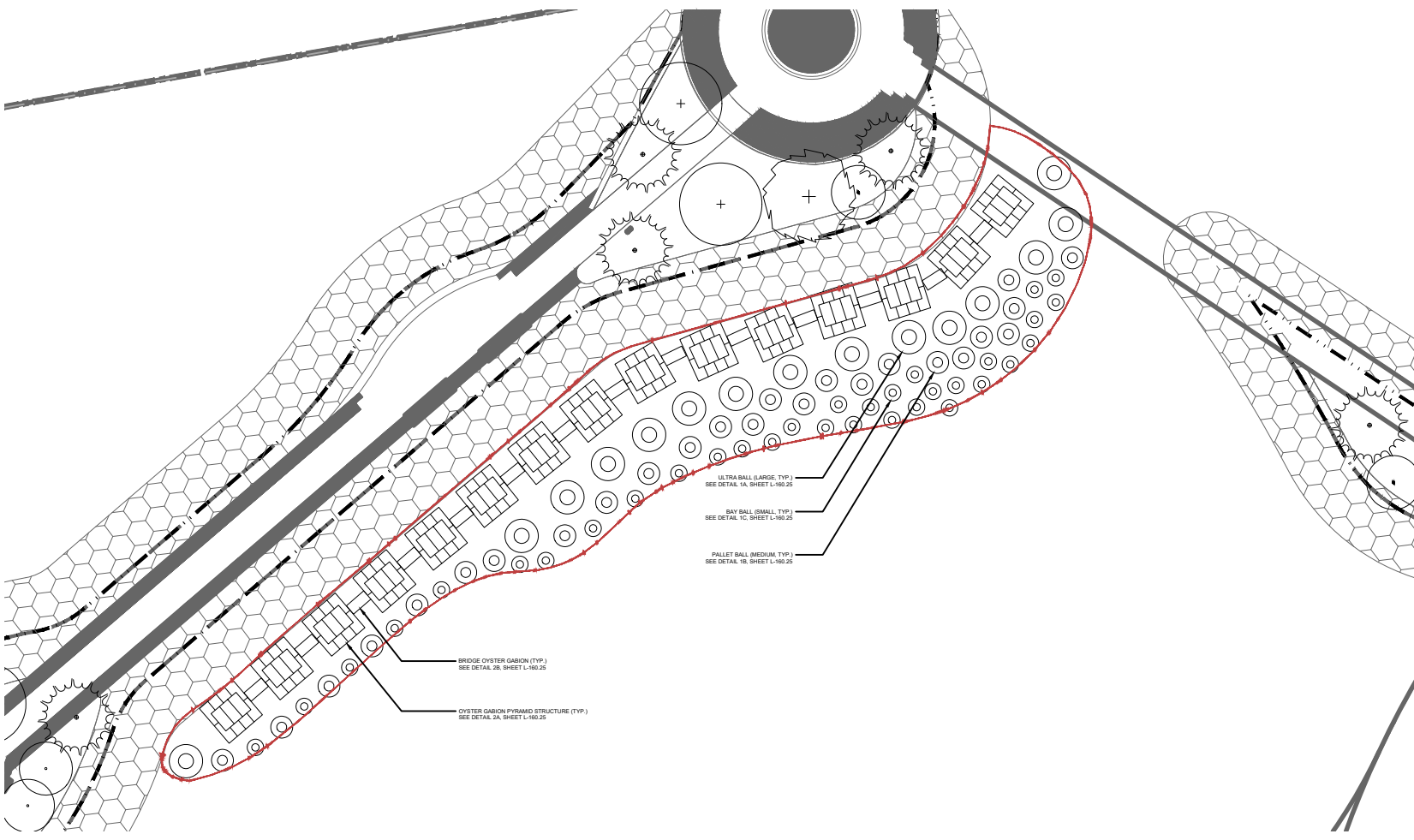
USACE FILE: NAN-2021-00531-EMI



KEY PLAN - SCALE: NTS

NO.	DESCRIPTION	DATE
1	ISSUANCE	2/18/18
2	REVISION	2/18/18
3	REV. MODIFICATION	2/11/18

NOTE:
1. BUILDING FLOOR PLANS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.



GENERAL NOTES

1. Architect's stamp and seal correspond to the information regarding the authorized open space design within the proposed LISC. Information regarding the proposed buildings and surrounding properties is for illustrative purposes only. Refer to architectural drawings for proposed building details.
2. Street trees adjacent to the zoning lot shall be provided in accordance with 24-116 of the Uniform Tree Ordinance and shall be subject to NYC Department of Parks and Recreation.
3. All improvements within and adjacent to the Grand Ferry Park are subject to approval by NYC Department of Parks and Recreation.
4. All street improvements are subject to approval by the NYC Department of Transportation.
5. Street furniture and mobile and spaces can be used for all furniture, light fixtures, site furnishings and plantings at discretion of landscape architect.

LANDSCAPE LEGEND

	REEF BALLS/OYSTER GABIONS
	NYPA PLANTING
	LAWN
	RIP-RAP + ECOLOGICAL REVEALING LINE + COBBLE
	BEACH
	SEATING W/ BACK
	SEATING W/O BACK
	MOVABLE SEATING
	MOVABLE TABLE & CHAIR
	BIKE RACK
	TRASH RECEPTACLES
	WPAA ENTRANCE SIGN
	SEATING OPEN TO PUBLIC SIGN
	SAVAGED MOORING ELEMENT
	LANDSCAPE BOULDERS
	SHADE CANOPY TREE - LARGE
	SHADE CANOPY TREE - SMALL
	ORNAMENTAL / MULTI-STEMMED TREE
	CONIFEROUS TREE
	SHRUB
	EXISTING TREE (GRAND FERRY PARK)

LANDSCAPE ARCHITECT
JAMES CORNIG FIELD OPERATIONS
475 Tenth Ave, 9th Floor, New York, NY 10018

TWO TREES / DEVELOPER
41 MAN ST. 12F, BROOKLYN, NY 11201

BLARKE INGELS GROUP
41 MAN ST. 9F, BROOKLYN, NY 11201

PROJECT NAME
RIVER RING
RIVER STREET
WILLAMSBURG, BROOKLYN, NY
11205

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____



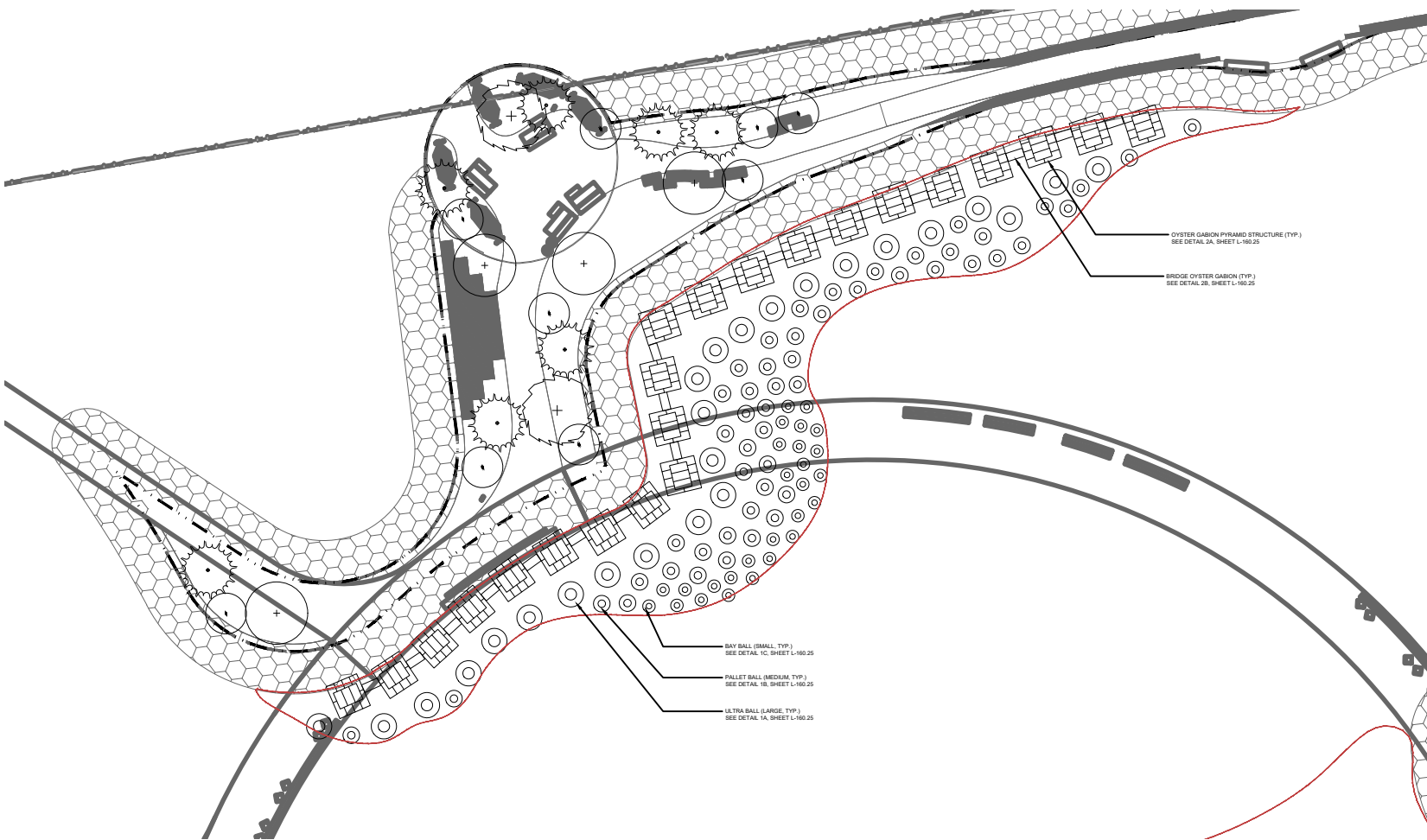
SUBMERGED HABITAT PLAN
ZONE 3 ENLARGEMENT PLAN

STR. TYPE	QTY	COVER AREA (SQ. FT.)	FULL VOLUME (CY)	FULL SOLID FORM (CY)
BAY BALL (SMALL)	1117	231	91	25
PALLET BALL (MEDIUM)	25	491	12	25
ULTRA BALL (LARGE)	25	623	16	25
OYSTER GABION PYRAMID STRUCTURE	22	1,487	NA	143
BRIDGE OYSTER GABION CONNECTION	18	156		12
TOTAL REEF BALL QUANTITY:	1272			
TOTAL REEF BALL COVERAGE AREA (SQ. FT.):	1,881			
TOTAL REEF BALL FULL VOLUME (CONCRETE ONLY, CY):	39			
TOTAL REEF BALL FULL VOLUME (FULL SOLID FORM, CY):	65			
TOTAL OYSTER GABION QUANTITY:	40			
TOTAL OYSTER GABION COVERAGE AREA (SQ. FT.):	1,825			
TOTAL OYSTER GABION VOLUME (FULL SOLID FORM, CY):	15			

NOTES:
1. REEF BALL AND OYSTER GABION QUANTITY TO BE VERIFIED BY MARINE ENGINEER.



KEY PLAN - SCALE: NTS



REVISION / ISSUANCE		
NO.	DESCRIPTION	DATE
1	ISSUANCE	2/18/21
2	REVISION	2/18/21
3	CRG MODIFICATION	2/11/21

- ### ZONING LEGEND
- SHORE PUBLIC WALKWAY
 - SUPPLEMENTAL PUBLIC ACCESS AREA
 - PIERS
 - PUBLIC ACCESS AREA
 - VISUAL CORRIDOR
 - PIERHEAD LINE
 - U.S. BULKHEAD LINE
 - MEAN HIGH WATER
 - ZONING LOT LINE
 - LARGE SCALE GENERAL DEVELOPMENT BOUNDARY
 - 15' ENTRY ZONE
 - 12' CLEAR PATH
 - PLATFORM

NOTE:
1. BUILDING FLOOR PLANS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

GENERAL NOTES

1. Architect's stamp and seal correspond to the information regarding the authorized open space design within the proposed LISC. Information regarding the proposed buildings and surrounding properties is for illustrative purposes only. Refer to architectural drawings for proposed building details.
2. Street trees adjacent to the zoning lot shall be provided in accordance with DC, 24-41. The location and number of street trees shall be subject to NYC Department of Parks and Recreation.
3. All improvements within and adjacent to the Green Fens Park are subject to approval by NYC Department of Parks and Recreation.
4. All street improvements are subject to approval by the NYC Department of Transportation.
5. Similar materials and models and spaces can be used for all furniture, light fixtures, site furnishings and plantings at discretion of landscape architect.

LANDSCAPE LEGEND

- REEF BALLS/OYSTER GABIONS
- NYPA PLANTING
- LAWN
- RIP-RAP + ECOLOGICAL REVEALING (IF POSSIBLE)
- BEACH
- SEATING W/ BACK
- SEATING W/O BACK
- MOVABLE SEATING
- MOVABLE TABLE & CHAIR
- BIKE RACK
- TRASH RECEPTACLES
- WPAA ENTRANCE SIGN
- SEATING OPEN TO PUBLIC SIGN
- SALVAGED MOORING ELEMENT
- LANDSCAPE BOULDERS
- SHADE CANOPY TREE - LARGE
- SHADE CANOPY TREE - SMALL
- ORNAMENTAL / MULTI-STEMMED TREE
- CONIFEROUS TREE
- SHRUB
- EXISTING TREE (GRAND FERRY PARK)

LANDSCAPE ARCHITECT:
JAMES CORNIG FIELD OPERATIONS
475 Third Ave., 9th Floor, New York, NY 10018

TWO TREES / DEVELOPER
45 MAIN ST., 12F, BROOKLYN, NY 11201

BLARKE INGELS GROUP
45 MAIN ST., 9F, BROOKLYN, NY 11201

PROJECT NAME:
RIVER RING
RIVER STREET
WILLAMSBURG, BROOKLYN, NY
PROJECT
1825

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

VERT. N/A
HORIZ. N/A

SCALE: 1" = 160.24'