



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-2022-00758-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: New York City Department of Parks and Recreation
Arsenal North, 1234 Fifth Avenue
New York, New York 10029

ACTIVITY: Wetland Restoration and Shoreline Protection

WATERWAY: Sommerville Basin and Conch Basin, Jamaica Bay

LOCATION: Rockaway Community Park, Queens 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 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.

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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 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

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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, New York City Department of Parks and Recreation (NYCDPR) has requested Department of the Army (DA) authorization for wetland restoration and shoreline stabilization. The project is located in Sommerville Basin and Conch Basin at Rockaway Community Park in Queens County, City of New York, New York.

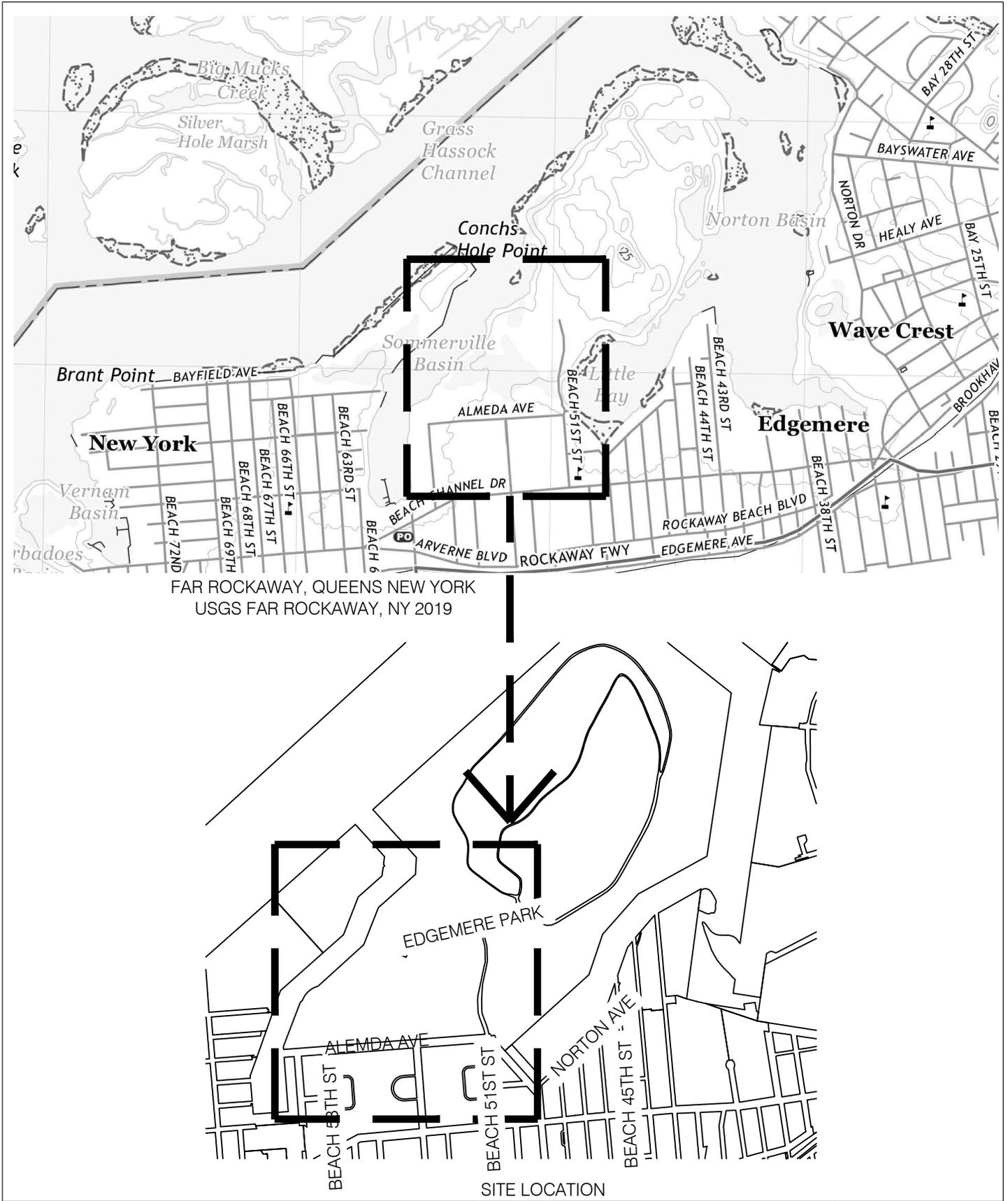
The proposed work would involve the following:

Discharge of approximately 16,359 cubic yards of clean fill material over an approximately 78,920 square foot area below the plane of Spring High Water. Approximately 14,859 cubic yards of sand will be placed over approximately 62,720 square feet for tidal marsh vegetation. The remaining approximately 1,500 cubic yards of fill will consist of natural stone to create an approximately 450 foot-long (16,200 square foot) rock sill to stabilize the edge of the restoration area.

Additionally, approximately 2,799 cubic yards of debris and fill will be removed along Sommerville Basin and Conch Basin over a total of 17,184 square feet. Approximately 1,953 cubic yards of clean sand fill would be discharged over the approximately 17,184 square feet and would be replanted with native tidal marsh vegetation.

The applicant has stated that they have avoided, minimized, and mitigated for potential impacts proposed to the maximum extent practicable by implementing Best Management Practices including limiting construction access and equipment staging to areas above Spring High Water, as practicable. The applicant will utilize approximately 600 square feet of temporary marsh mats where access through existing wetland areas is necessary to complete the work. Any temporarily disturbed areas will be restored to their pre-existing conditions and planted with native wetland vegetation.

The purpose of this project is to stabilize the shoreline and mitigate flooding. The project is receiving grant funding from the Federal Emergency Management Agency (FEMA).



FAR ROCKAWAY, QUEENS NEW YORK
USGS FAR ROCKAWAY, NY 2019

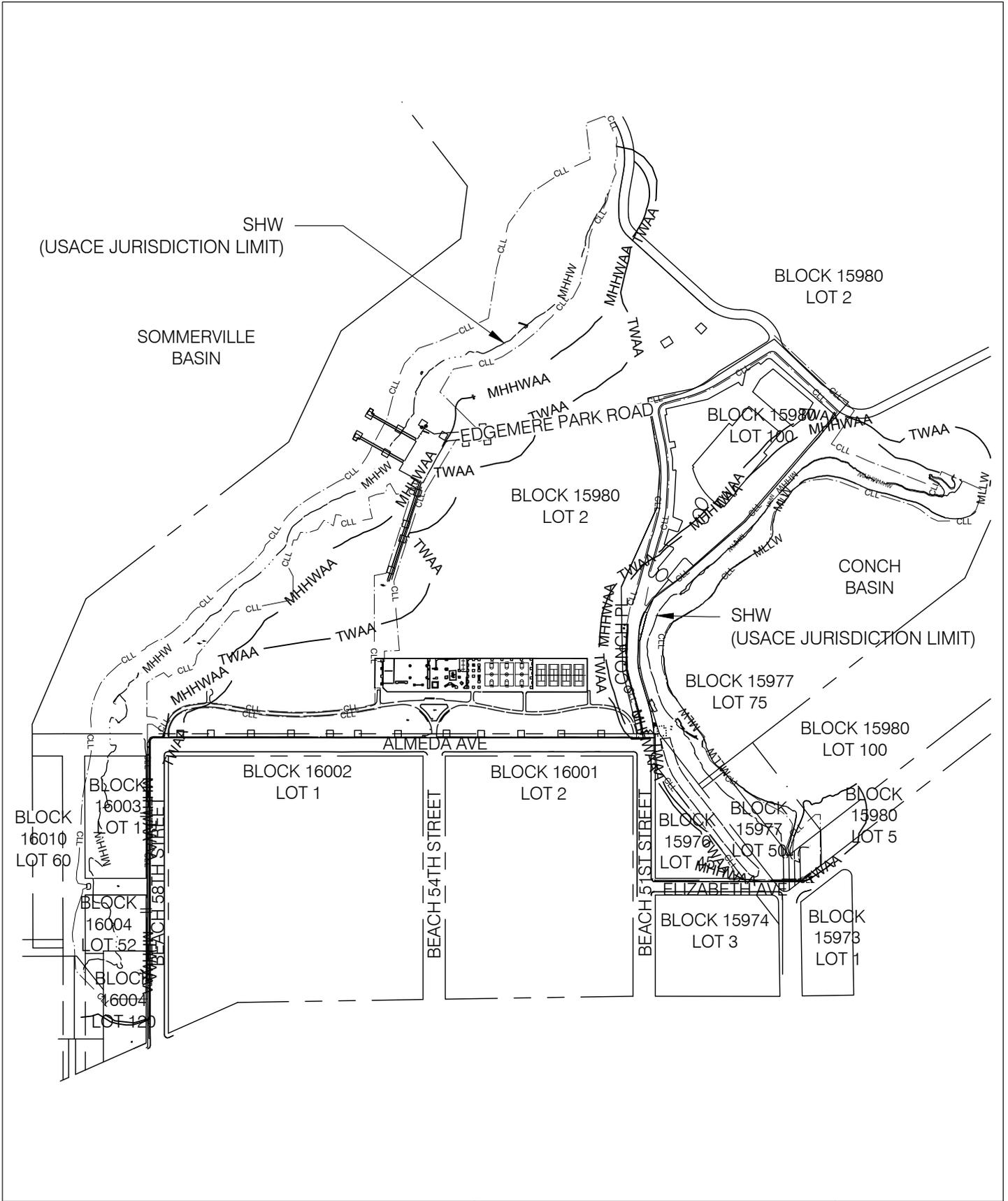
SITE LOCATION

THE RECONSTRUCTION OF SHORELINE PROTECTION
MEASURES AT ROCKAWAY COMMUNITY PARK
JAMAICA BAY
QUEENS COUNTY, NEW YORK
NYC DEPARTMENT OF PARKS & RECREATION

VICINITY MAP
LAT: 40°36' 7.2" N LONG: 73°47' 2.1" W

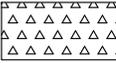
JANUARY 24, 2023

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<p>THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK JAMAICA BAY QUEENS COUNTY, NEW YORK NYC DEPARTMENT OF PARKS & RECREATION</p>	<p>PROPERTY DESCRIPTION AND USACE JURISDICTION</p> <p>SCALE: 1"=40'</p>  	<p>JANUARY 24, 2023</p> <p>5 OF 25</p>
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LEGEND

- CLL — CONTRACT LIMIT LINE
- SF — SF — TEMPORARY SILT FENCE
-  EXISTING MARSH TO REMAIN
-  SAND PLACEMENT AND PLANTING
- ✕ REMOVE EXISTING TREE

TIDE TABLE

MHHW (SHW)	2.8 FT.
MHW	2.4 FT.
MLW	-2.9 FT.
MLLW	-3.1 FT.

TIDAL VALUES ARE DERIVED FROM VDATUM AND ARE SHOWN IN VERTICAL FEET RELATIVE TO NAVD88.

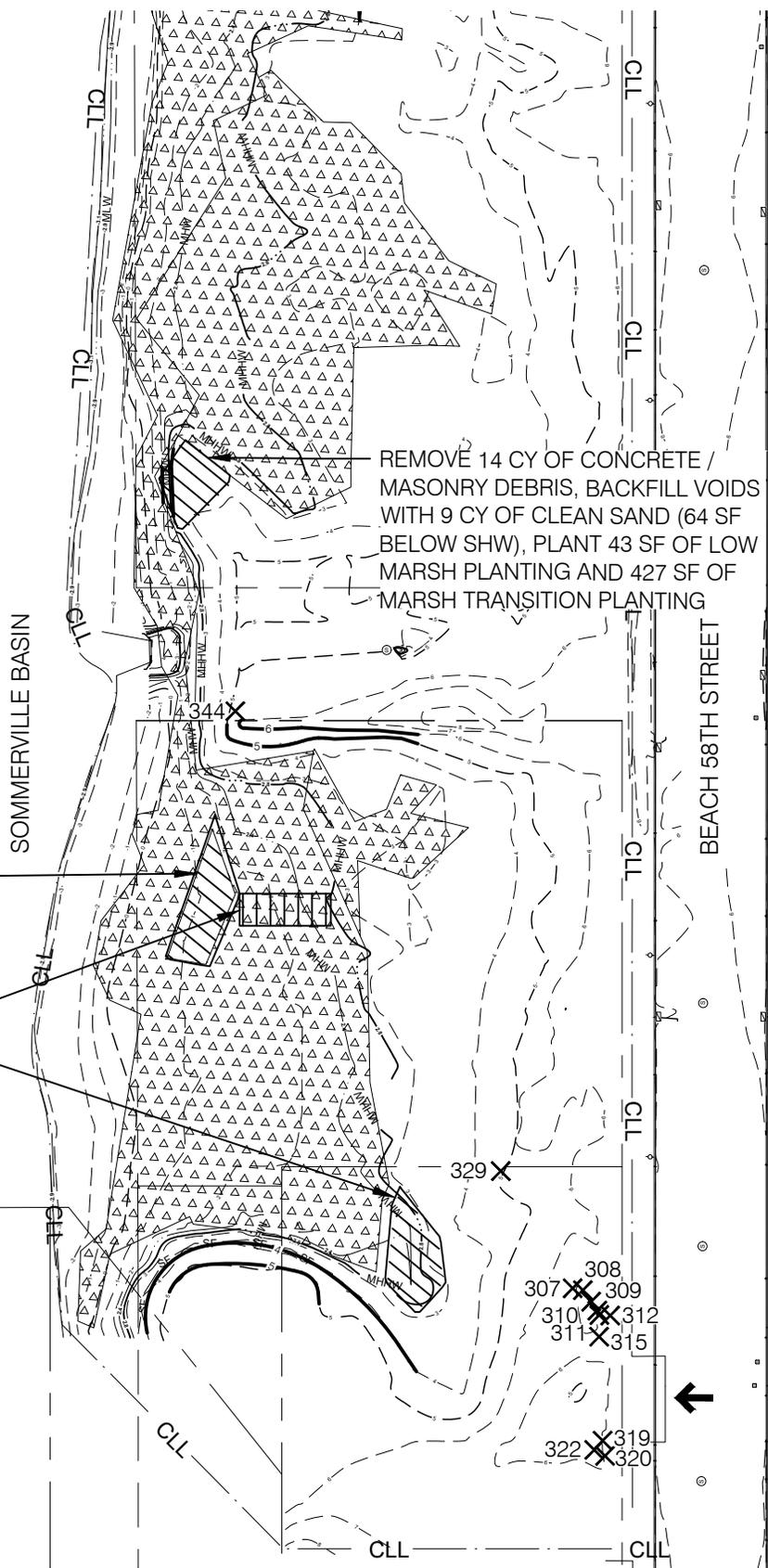
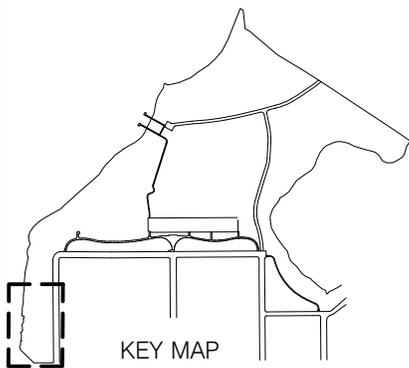
NOTE

ANY DAMAGE TO THE EXISTING WETLAND VEGETATION DURING CONSTRUCTION SHALL BE REPAIRED.

REMOVE 100 CY OF MARINE DEBRIS, BACKFILL VOIDS WITH 75 CY OF CLEAN SAND (896 SF BELOW SHW), PLANT 800 SF OF LOW MARSH PLANTING

MARSH MATS, 600 SF

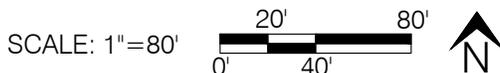
REMOVE 79 CY OF MARINE DEBRIS, BACKFILL VOIDS WITH 59 CY OF CLEAN SAND (712 SF BELOW SHW), PLANT 845 SF OF HIGH MARSH PLANTING



THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

PROPOSED SHORELINE IMPROVEMENTS PLAN

JANUARY 24, 2023



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LEGEND

- CLL — CONTRACT LIMIT LINE
-  EXISTING MARSH TO REMAIN
-  SAND PLACEMENT AND PLANTING

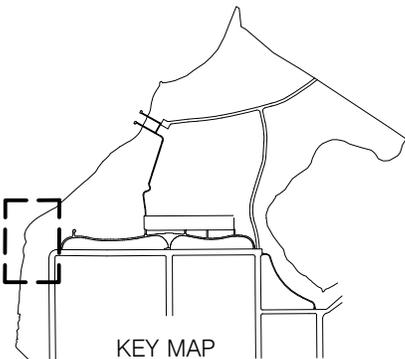
TIDE TABLE	
MHHW (SHW)	2.8 FT.
MHW	2.4 FT.
MLW	-2.9 FT.
MLLW	-3.1 FT.

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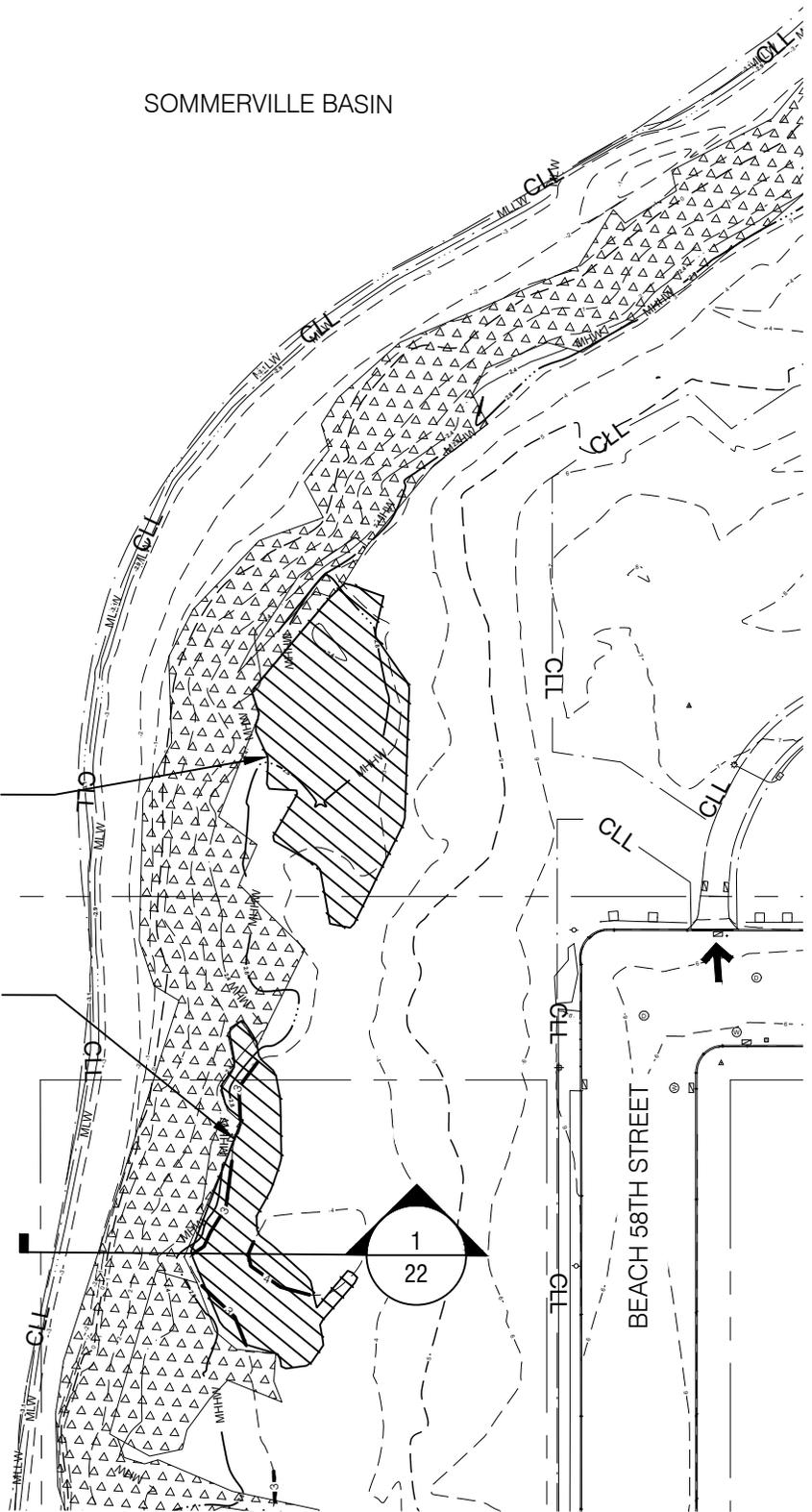
NOTE
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REMOVE 374 CY OF MARINE DEBRIS. BACKFILL VOIDS WITH 280 CY OF CLEAN SAND (3,365 SF BELOW SHW), PLANT 1,341 SF OF LOW MARSH PLANTING, 2,286 SF OF HIGH MARSH SCRUB BELOW SHW AND 2,273 SF OF HIGH MARSH SCRUB PLANTING ABOVE SHW

REMOVE 24 CY OF CONCRETE / MASONRY AND MARINE DEBRIS, BACKFILL VOIDS WITH 16 CY OF CLEAN SAND (110 SF BELOW SHW), PLANT 338 SF OF LOW MARSH PLANTING AND 3,112 SF OF HIGH MARSH SCRUB PLANTING ABOVE SHW



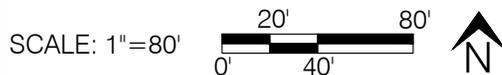
SOMMERVILLE BASIN



THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

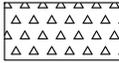
PROPOSED SHORELINE IMPROVEMENTS PLAN

JANUARY 24, 2023



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LEGEND

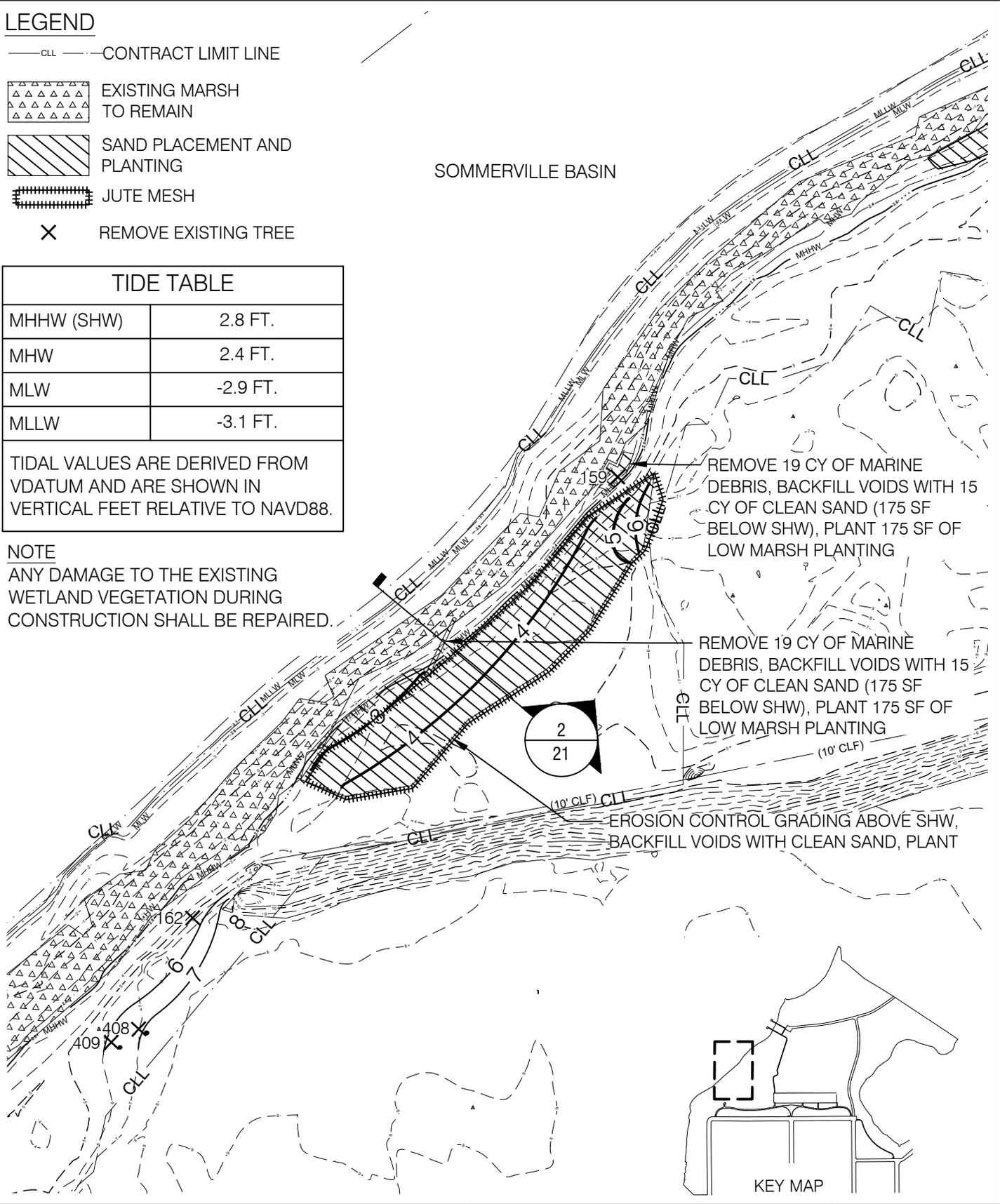
- CLL — CONTRACT LIMIT LINE
-  EXISTING MARSH TO REMAIN
-  SAND PLACEMENT AND PLANTING
-  JUTE MESH
- X REMOVE EXISTING TREE

SOMMERVILLE BASIN

TIDE TABLE	
MHHW (SHW)	2.8 FT.
MHW	2.4 FT.
MLW	-2.9 FT.
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THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

PROPOSED SHORELINE IMPROVEMENTS PLAN

JANUARY 24, 2023



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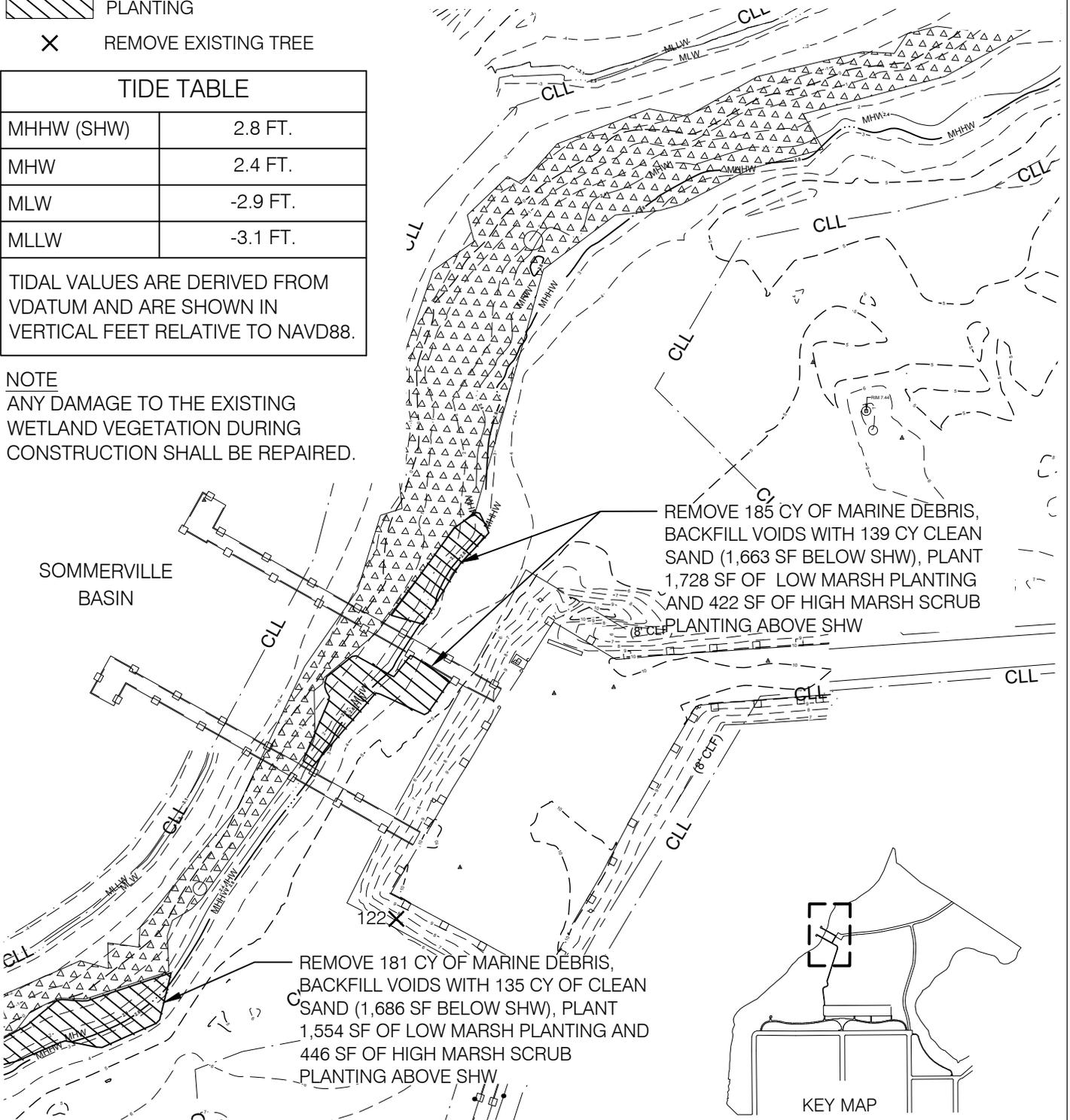
LEGEND

- CLL— CONTRACT LIMIT LINE
-  EXISTING MARSH TO REMAIN
-  SAND PLACEMENT AND PLANTING
- ✕ REMOVE EXISTING TREE

TIDE TABLE	
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 QUEENS COUNTY, NEW YORK
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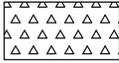
PROPOSED SHORELINE IMPROVEMENTS PLAN

JANUARY 24, 2023



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LEGEND

- CLL — CONTRACT LIMIT LINE
-  EXISTING MARSH TO REMAIN
-  SAND PLACEMENT AND PLANTING

TIDE TABLE	
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TEMPORARY STAGING AREA FOR LOW MARSH HUMMOCK TRANSPLANTS. HUMMOCKS TO BE PROTECTED AND MAINTAINED UNTIL FINAL PLACEMENT. AREA SHOWN IS DIAGRAMMATIC, FINAL STAGING AREA TO BE FIELD DIRECTED BY RESIDENT ENGINEER

SOMMERVILLE BASIN

MAXIMUM +/- 200 FEET BETWEEN EXTENTS OF WORK AND EXISTING SHW

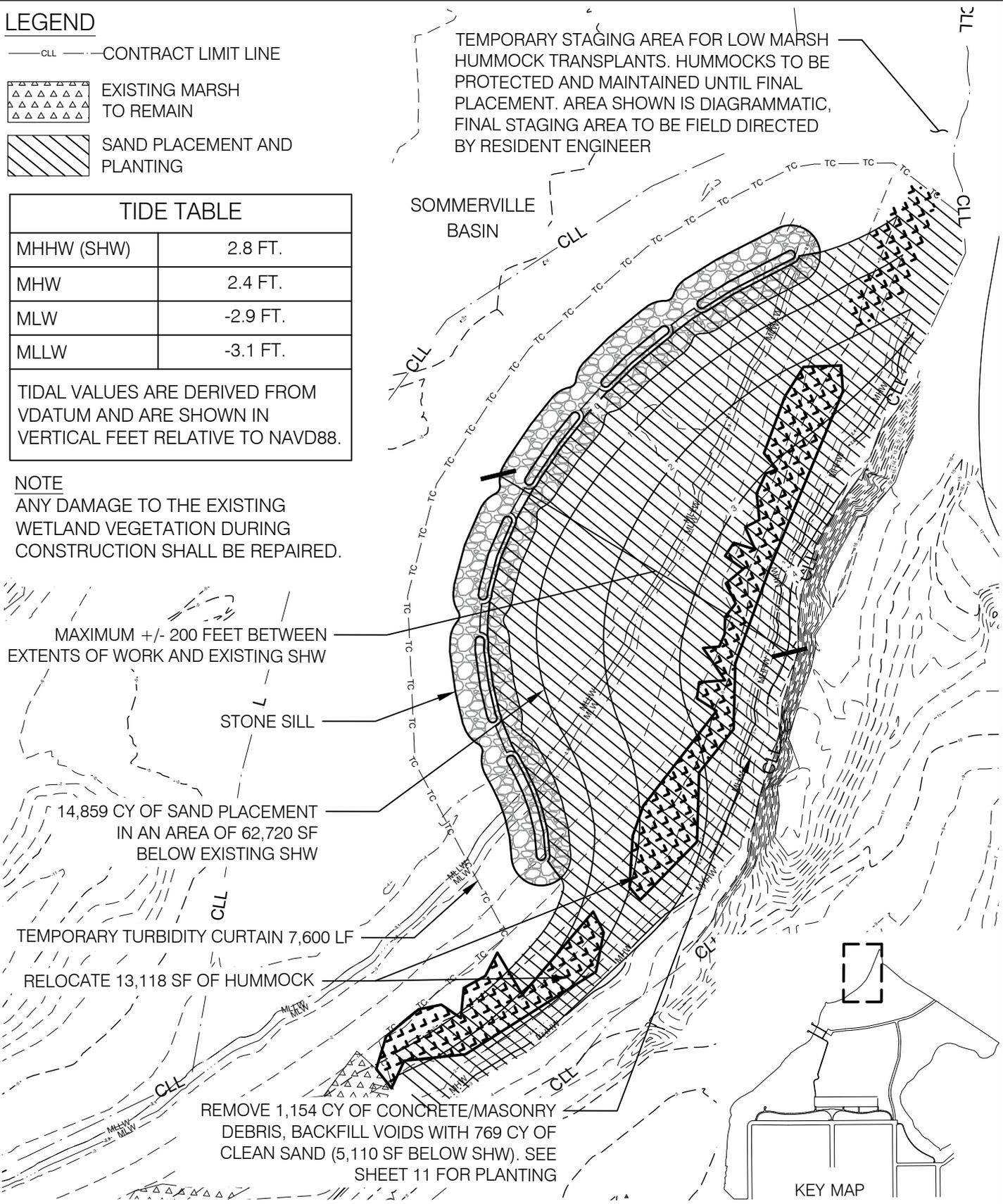
STONE SILL

14,859 CY OF SAND PLACEMENT IN AN AREA OF 62,720 SF BELOW EXISTING SHW

TEMPORARY TURBIDITY CURTAIN 7,600 LF

RELOCATE 13,118 SF OF HUMMOCK

REMOVE 1,154 CY OF CONCRETE/MASONRY DEBRIS, BACKFILL VOIDS WITH 769 CY OF CLEAN SAND (5,110 SF BELOW SHW). SEE SHEET 11 FOR PLANTING



KEY MAP

THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

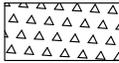
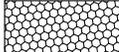
PROPOSED SHORELINE IMPROVEMENTS PLAN

JANUARY 24, 2023



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LEGEND

- CLL— CONTRACT LIMIT LINE
- TC-TC- TEMPORARY TURBIDITY CURTAIN
-  EXISTING MARSH TO REMAIN
-  TRANSPLANTED HUMMOCKS
-  LOW MARSH
-  MARSH TRANSITION
-  HIGH MARSH
-  HIGH MARSH SCRUB

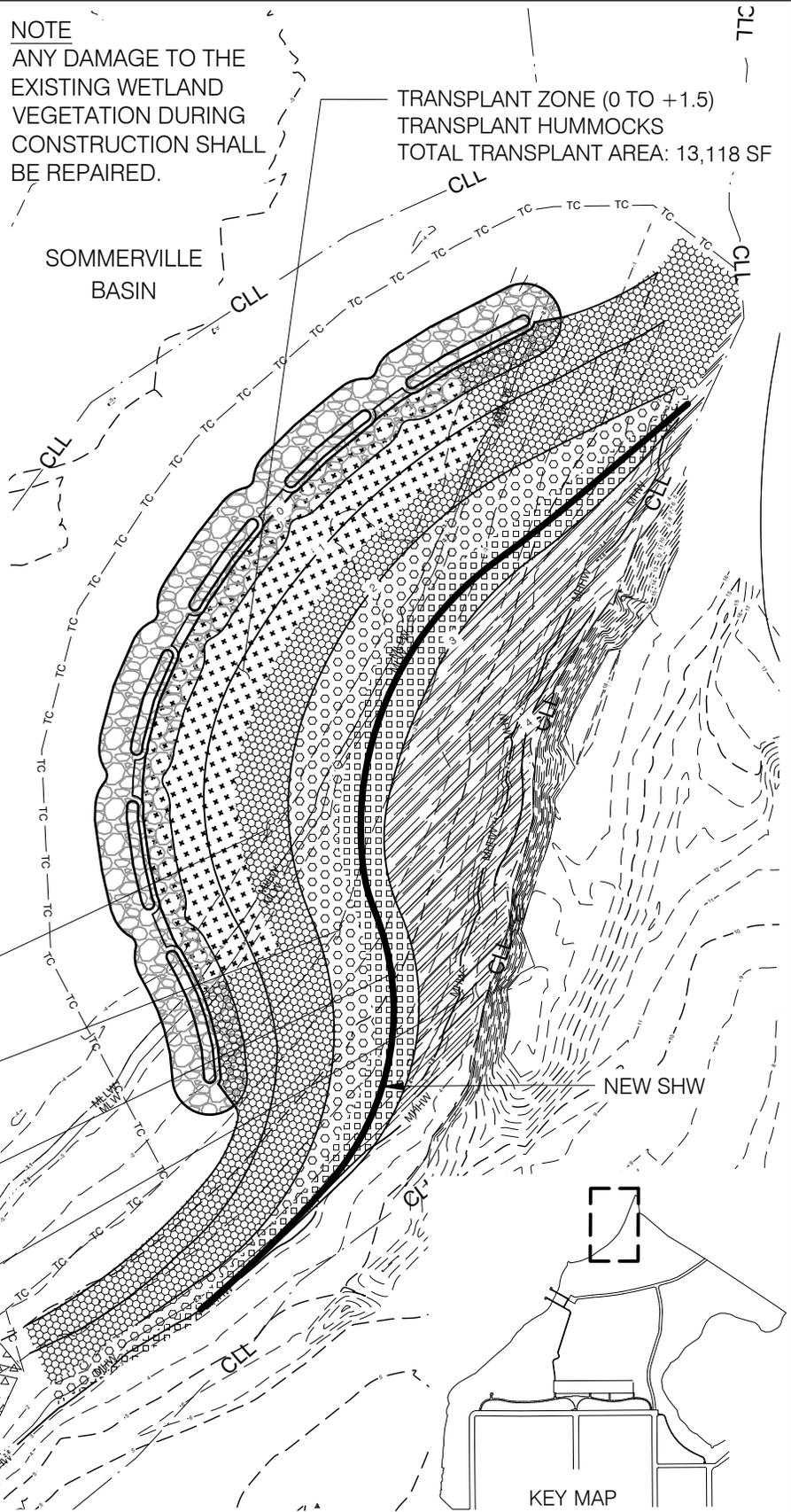
NOTE
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TRANSPLANT ZONE (0 TO +1.5)
 TRANSPLANT HUMMOCKS
 TOTAL TRANSPLANT AREA: 13,118 SF

TIDE TABLE	
MHHW (SHW)	2.8 FT.
MHW	2.4 FT.
MLW	-2.9 FT.
MLLW	-3.1 FT.

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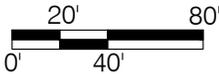
- LOW MARSH EROSION CONTROL PLANTING (0 TO +2.0)
 PLANTING AREA: 21,769 SF
- MARSH TRANSITION EROSION CONTROL PLANTING (+2.0 TO +2.5)
 PLANTING AREA: 9,665 SF
- HIGH MARSH EROSION CONTROL PLANTING (+2.5 TO +3.0)
 PLANTING AREA: 9,543 SF
- HIGH MARSH SCRUB EROSION CONTROL PLANTING (+3.0 TO +4.5):
 14,363 SF (ABOVE PROPOSED SHW)
- PLANTING AREA BELOW EXISTING SHW: 10,578 SF
- PLANTING AREA ABOVE EXISTING SHW: 3,785 SF



THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

PROPOSED SHORELINE IMPROVEMENTS PLAN

SCALE: 1"=80'

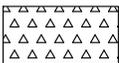



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LEGEND

—CLL— CONTRACT LIMIT LINE

 EXISTING MARSH TO REMAIN

 SAND PLACEMENT AND PLANTING

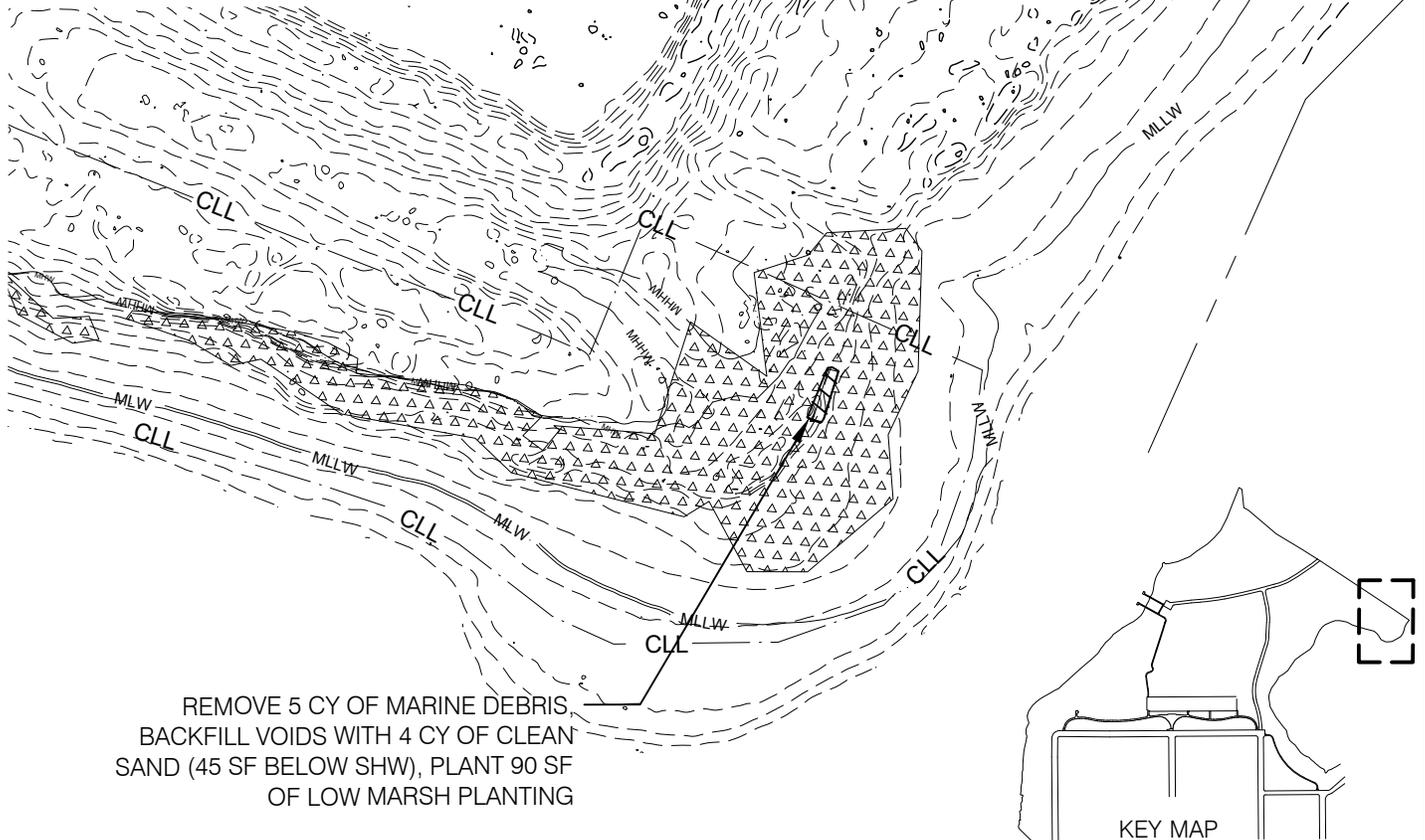
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REMOVE 5 CY OF MARINE DEBRIS,
BACKFILL VOIDS WITH 4 CY OF CLEAN
SAND (45 SF BELOW SHW), PLANT 90 SF
OF LOW MARSH PLANTING

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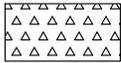
PROPOSED SHORELINE IMPROVEMENTS PLAN

JANUARY 24, 2023



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LEGEND

- CLL— CONTRACT LIMIT LINE
-  EXISTING MARSH TO REMAIN
-  SAND PLACEMENT AND PLANTING
- X REMOVE EXISTING TREE

TIDE TABLE

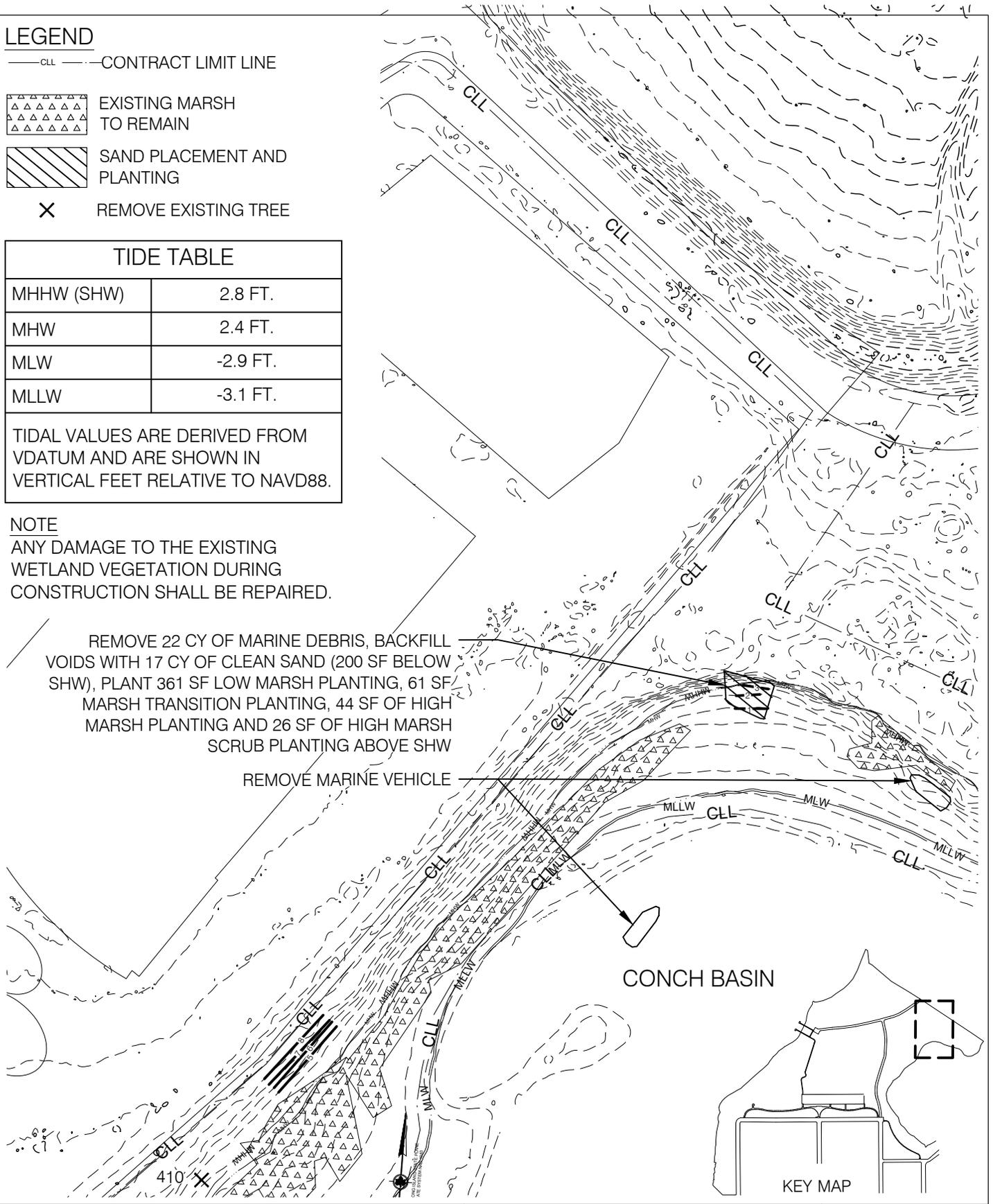
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REMOVE 22 CY OF MARINE DEBRIS, BACKFILL VOIDS WITH 17 CY OF CLEAN SAND (200 SF BELOW SHW), PLANT 361 SF LOW MARSH PLANTING, 61 SF MARSH TRANSITION PLANTING, 44 SF OF HIGH MARSH PLANTING AND 26 SF OF HIGH MARSH SCRUB PLANTING ABOVE SHW

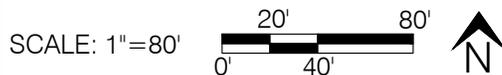
REMOVE MARINE VEHICLE



THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

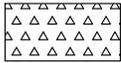
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-  JUTE MESH
- X REMOVE EXISTING TREE

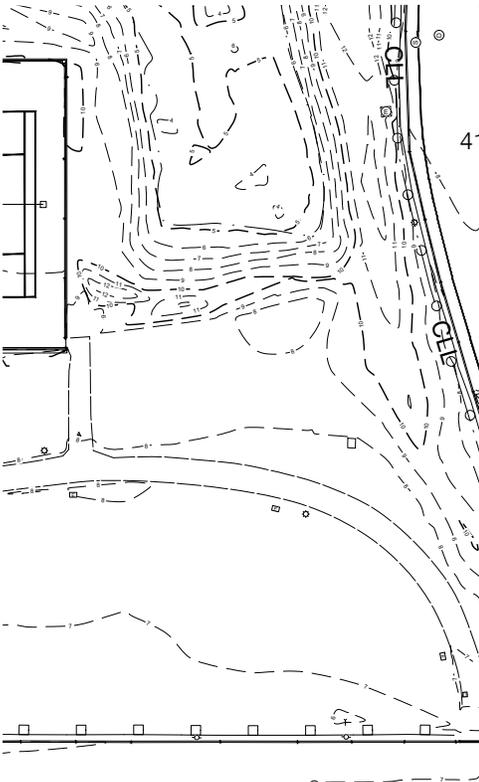
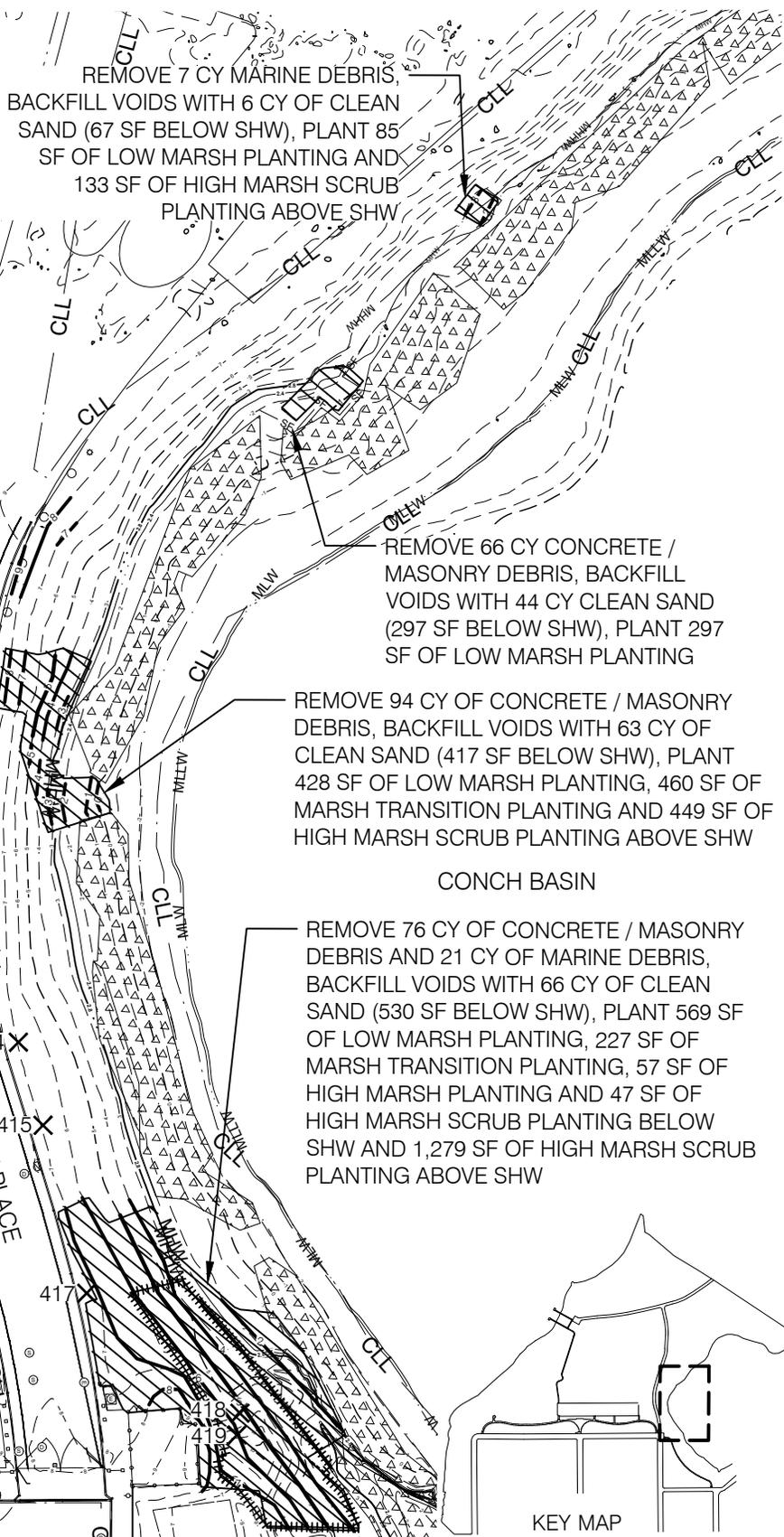
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NOTE

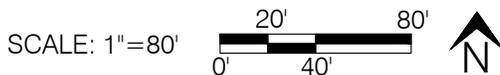
ANY DAMAGE TO THE EXISTING WETLAND VEGETATION DURING CONSTRUCTION SHALL BE REPAIRED.



THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK JAMAICA BAY QUEENS COUNTY, NEW YORK NYC DEPARTMENT OF PARKS & RECREATION

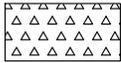
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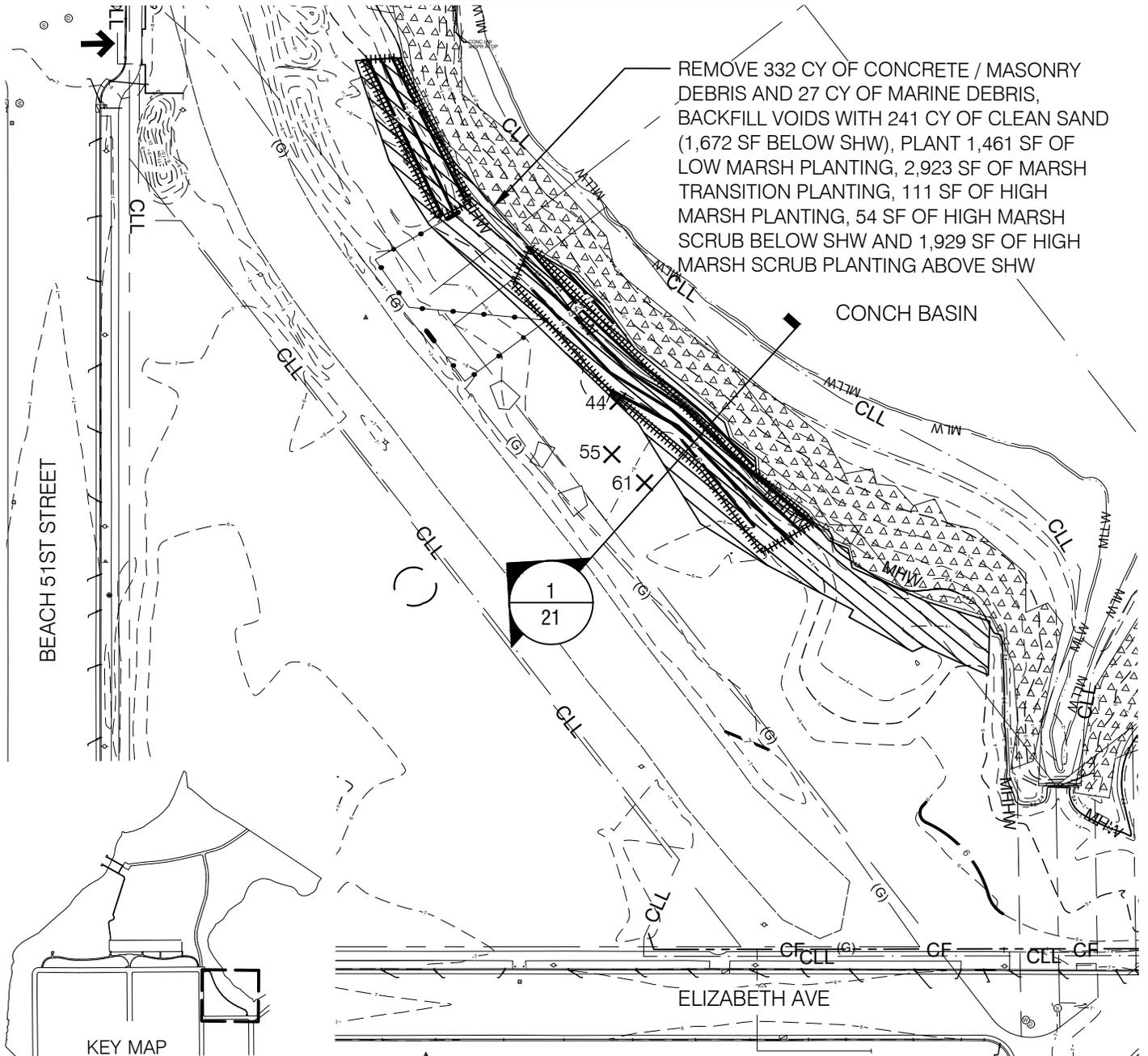
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-  EXISTING MARSH TO REMAIN
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- X REMOVE EXISTING TREE

TIDE TABLE	
MHHW (SHW)	2.8 FT.
MHW	2.4 FT.
MLW	-2.9 FT.
MLLW	-3.1 FT.

TIDAL VALUES ARE DERIVED FROM VDATUM AND ARE SHOWN IN VERTICAL FEET RELATIVE TO NAVD88.

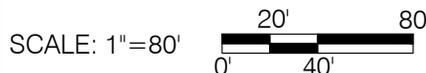
NOTE
 ANY DAMAGE TO THE EXISTING WETLAND VEGETATION DURING CONSTRUCTION SHALL BE REPAIRED.



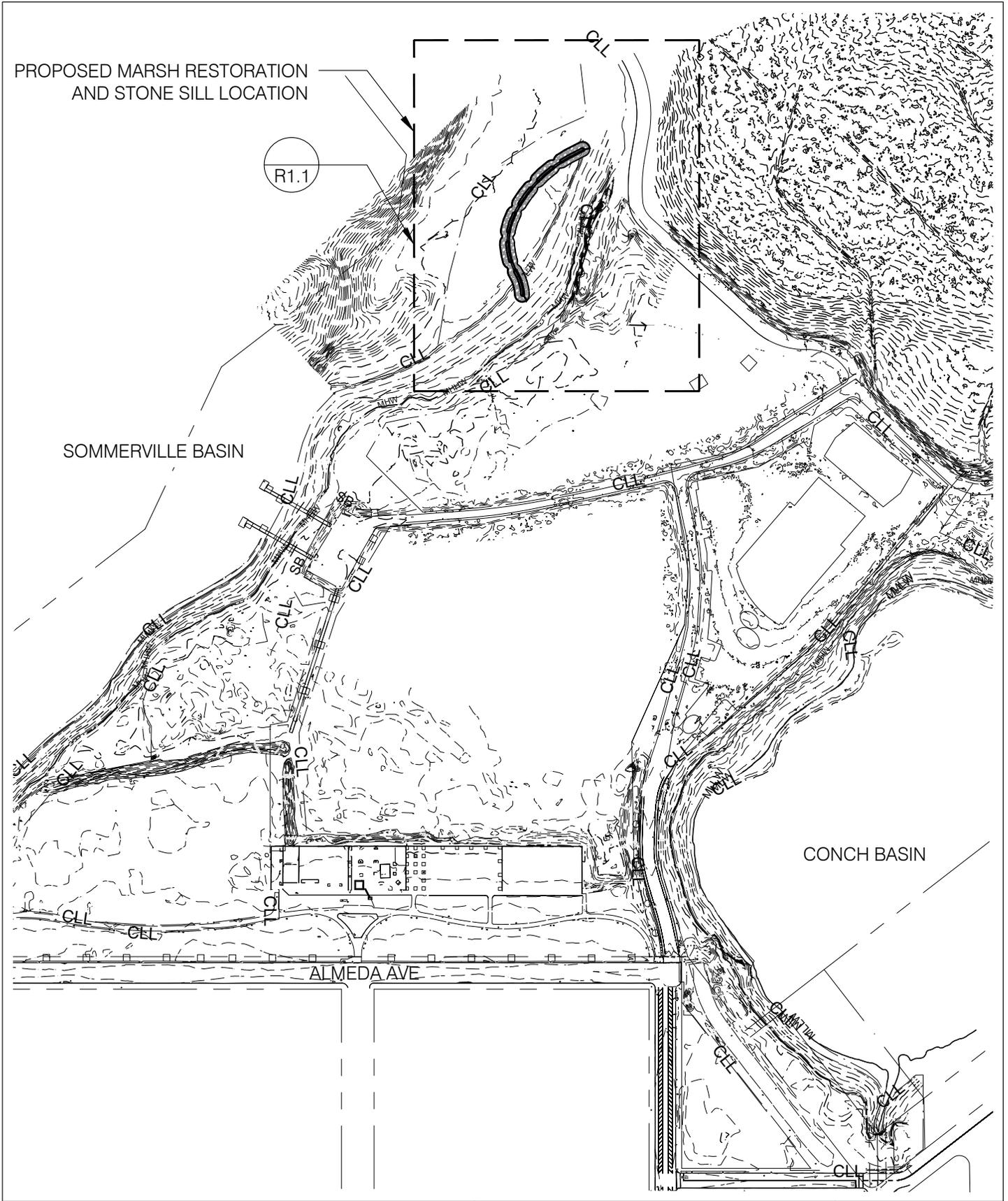
THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

PROPOSED SHORELINE IMPROVEMENTS PLAN

JANUARY 24, 2023



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THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

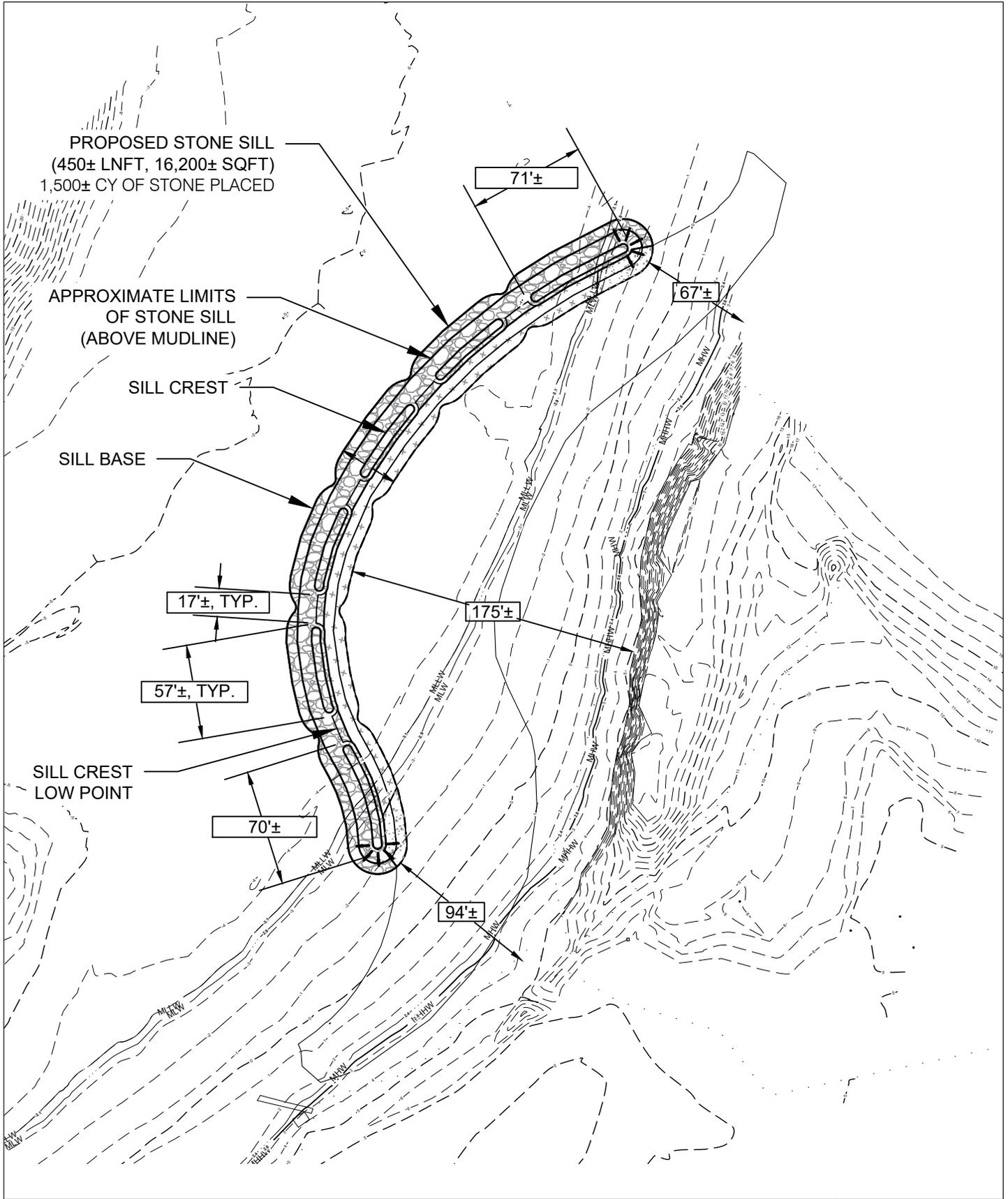
R-1.0 PROPOSED MARSH RESTORATION AND STONE SILL LOCATION

JANUARY 24, 2023

SCALE: N.T.S.



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THE RECONSTRUCTION OF SHORELINE PROTECTION
MEASURES AT ROCKAWAY COMMUNITY PARK
JAMAICA BAY
QUEENS COUNTY, NEW YORK
NYC DEPARTMENT OF PARKS & RECREATION

R-1.1 PROPOSED STONE SILL
DETAIL PLAN

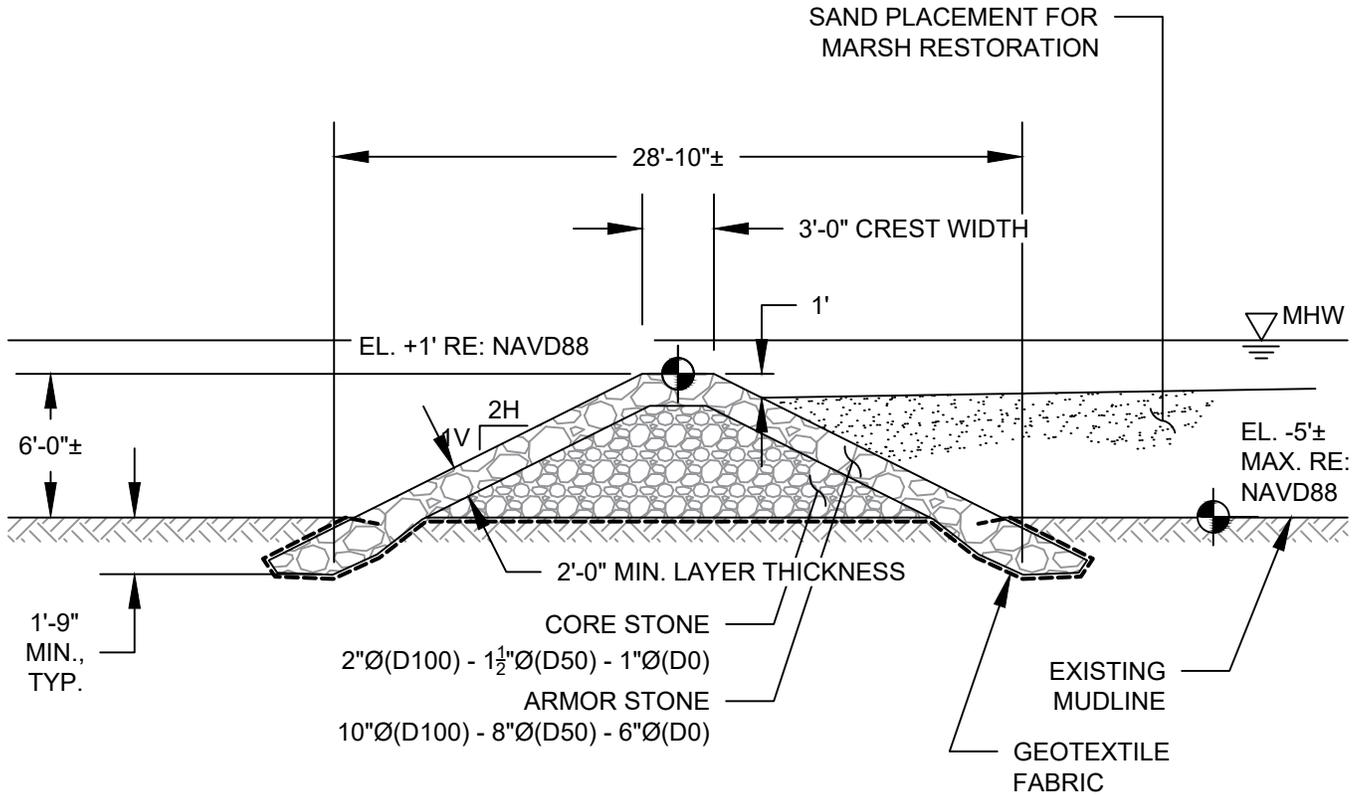
SCALE: 1"=80'

0' 20' 40' 80'

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JANUARY 24, 2023

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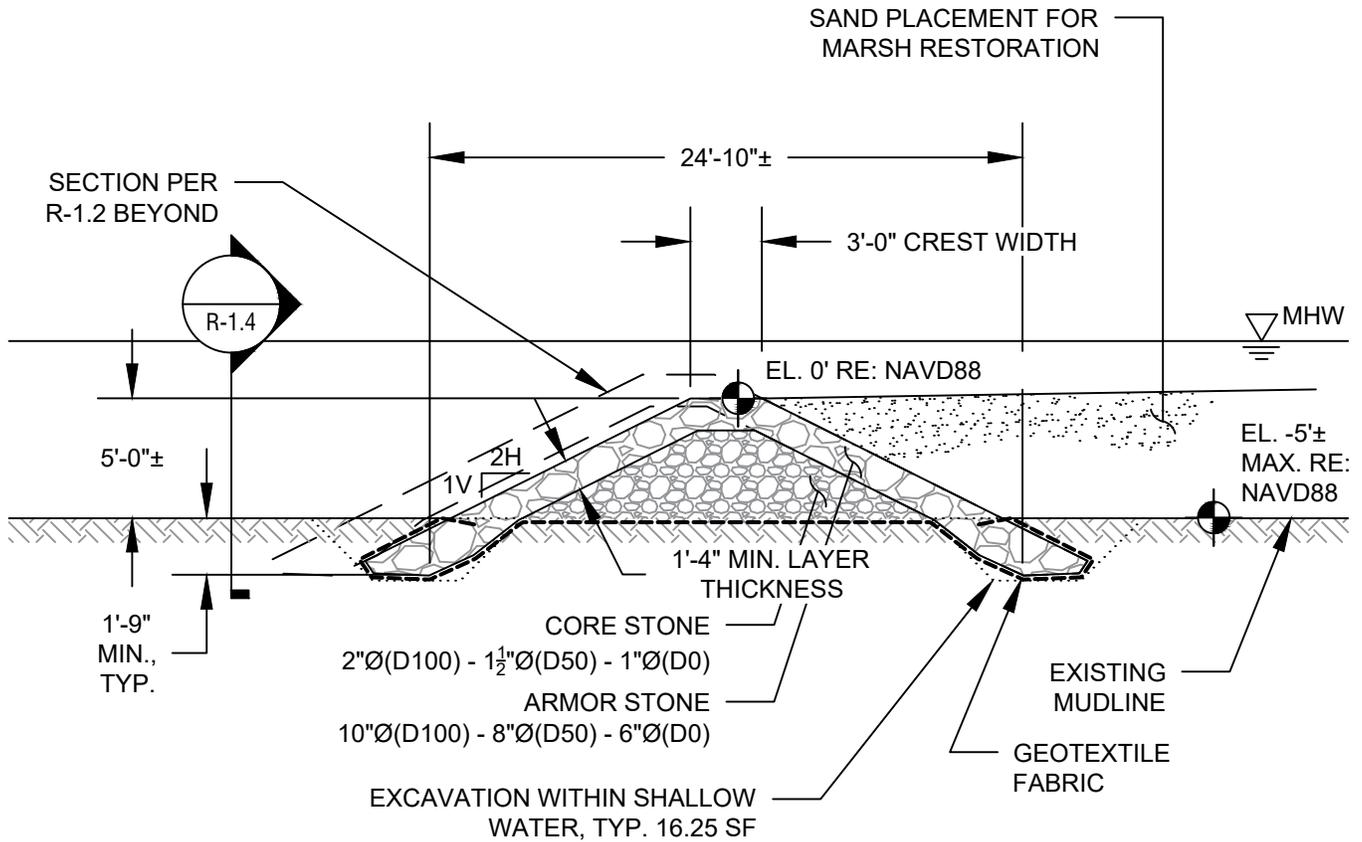
THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
 JAMAICA BAY
 QUEENS COUNTY, NEW YORK
 NYC DEPARTMENT OF PARKS & RECREATION

R-1.2 PROPOSED STONE SILL CROSS SECTION

SCALE: 1/8"=1'

JANUARY 24, 2023

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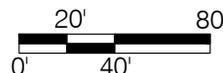


THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK
JAMAICA BAY
QUEENS COUNTY, NEW YORK
NYC DEPARTMENT OF PARKS & RECREATION

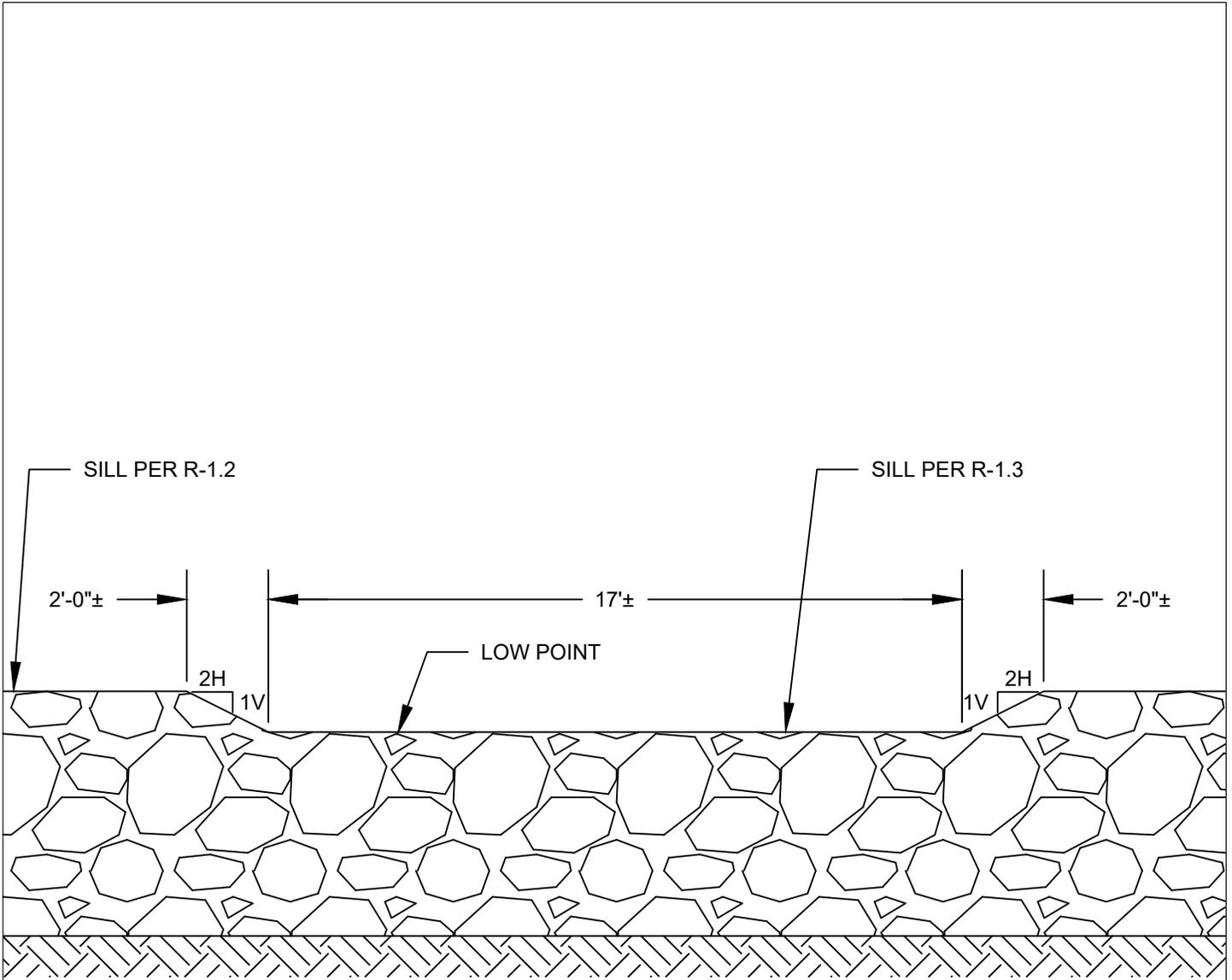
R-1.3 PROPOSED STONE SILL LOW POINT CROSS SECTION

JANUARY 24, 2023

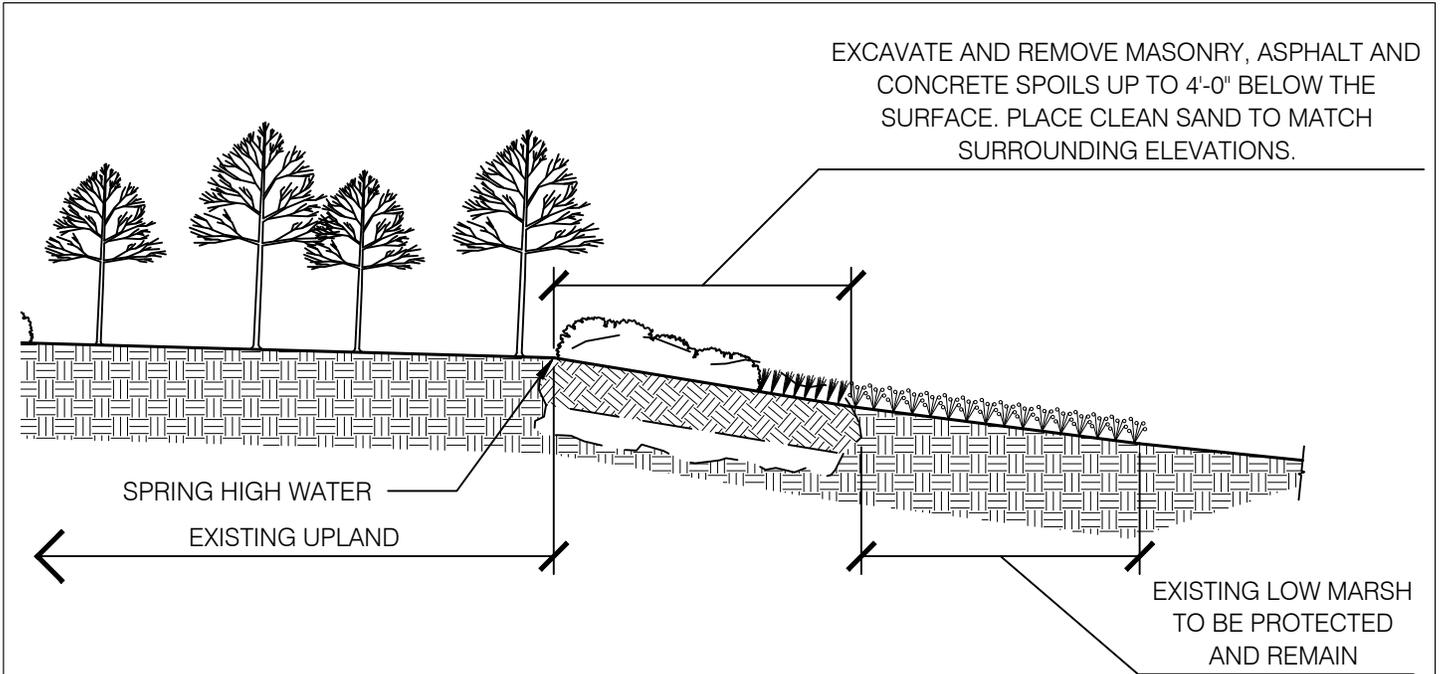
SCALE: 1"=80'



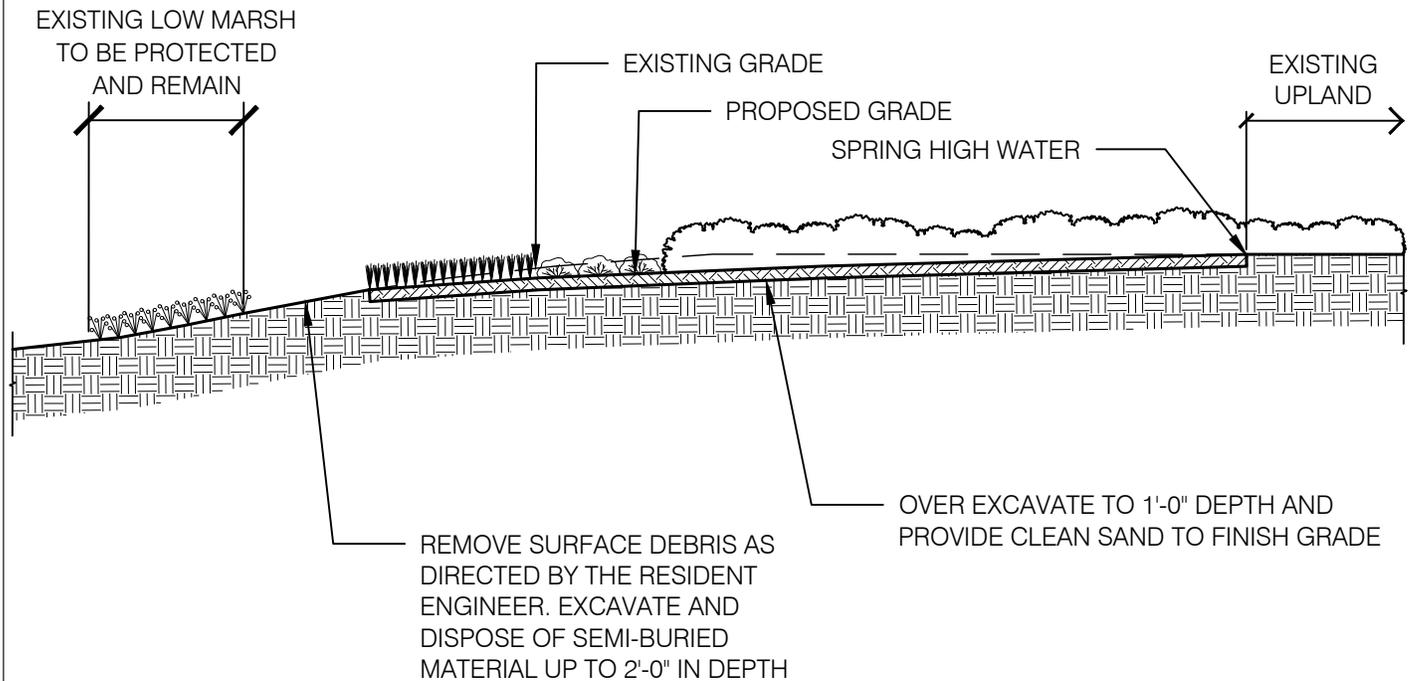
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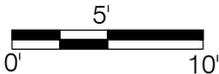
<p>THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK JAMAICA BAY QUEENS COUNTY, NEW YORK NYC DEPARTMENT OF PARKS & RECREATION</p>	<p>R-1.4 PROPOSED STONE SILL LOW POINT ELEVATION</p>	<p>JANUARY 24, 2023</p>
	<p>SCALE: 1/4"=1'</p>	<p>20 OF 25</p>

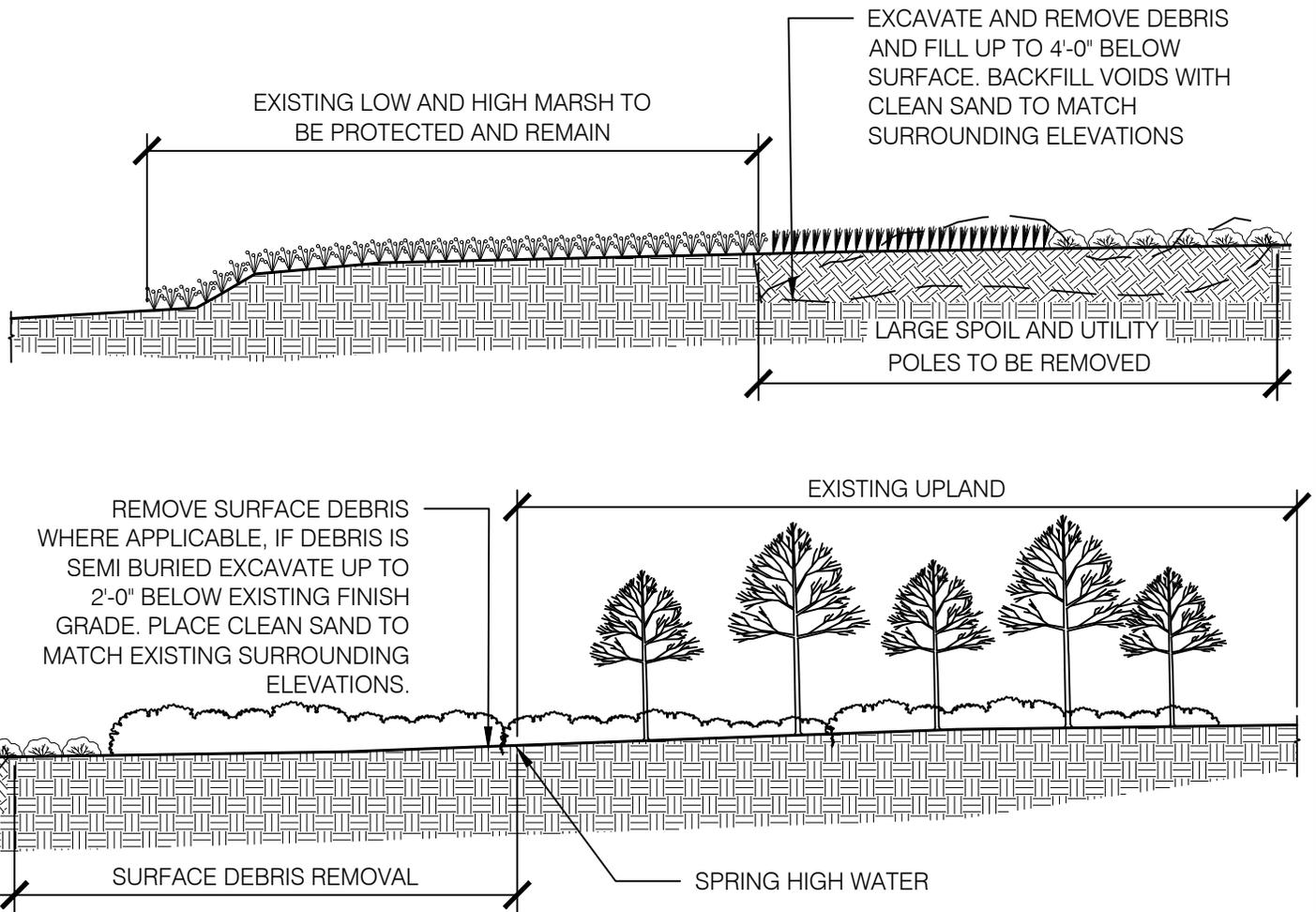


1 TYPICAL REMOVAL SECTION - CONCH BASIN



2 TYPICAL GRADING SECTION - SOMMERVILLE BASIN

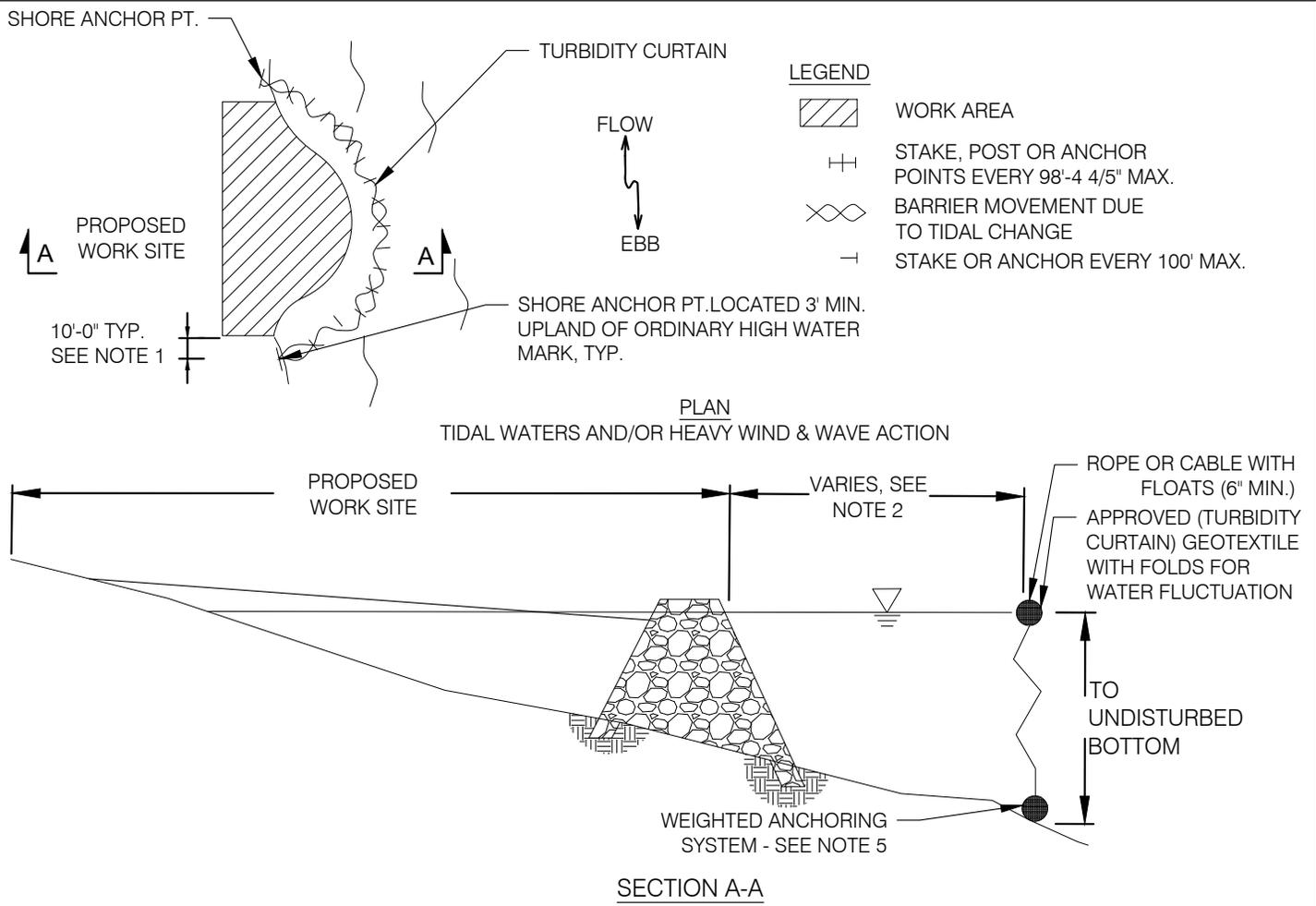
<p>THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK JAMAICA BAY QUEENS COUNTY, NEW YORK NYC DEPARTMENT OF PARKS & RECREATION</p>	<p>DEBRIS REMOVAL AND EROSION CONTROL GRADING SECTION</p> <p>SCALE: 1"=10'</p> 	<p>JANUARY 24, 2023</p> <p>21 OF 25</p>
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1

TYPICAL REMOVALS SECTION - SOMMERVILLE BASIN

<p>THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK JAMAICA BAY QUEENS COUNTY, NEW YORK NYC DEPARTMENT OF PARKS & RECREATION</p>	<p>DEBRIS REMOVAL SECTION AT SOMMERVILLE BASIN</p>	<p>JANUARY 24, 2023</p>
	<p>SCALE: 1/16"=1'-0"</p>	<p>22 OF 25</p>



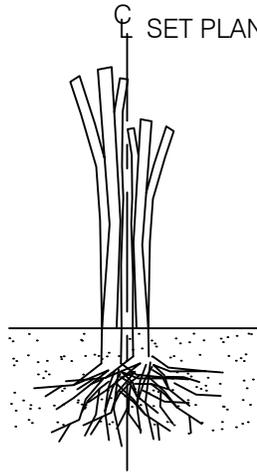
APPLICATION NOTES:

- A. THE PURPOSE OF A TURBIDITY CURTAIN IS TO SEPARATE WORK AREAS IN OR ADJACENT TO WATERWAYS, TO PREVENT TURBIDITY FROM ENTERING THE WATERWAY.
- B. TURBIDITY CURTAIN SHALL NOT BE PLACED ACROSS A FLOWING WATERWAY.
- C. CONCENTRATED FLOW OUTLETS SUCH AS CULVERT OUTLETS, DITCHES, ETC. SHALL NOT BE LOCATED BEHIND TURBIDITY CURTAIN.

GENERAL NOTES:

- 1. TURBIDITY CURTAIN SHALL BE A MAXIMUM OF 100' LONG FOR EACH SECTION OF CURTAIN REQUIRED. END SECTIONS SHALL TERMINATE 10' BEYOND THE LIMIT OF DISTURBANCE.
- 2. THE TURBIDITY CURTAIN SHALL BE PLACED AS CLOSE TO THE WORK AS POSSIBLE WITHOUT INTERFERING WITH CONSTRUCTION OPERATIONS.
- 3. THE CONTRACTOR SHALL CONTINUALLY MONITOR THE INSTALLATION, TAKING INTO ACCOUNT WEATHER PATTERNS AND PREVAILING WIND DIRECTIONS THAT MAY AFFECT WATER LEVELS, VELOCITY AND MOVEMENT OF THE TURBIDITY CURTAIN.
- 4. THE TURBIDITY CURTAIN SHALL BE REMOVED BY PULLING TOWARD THE SHORE TO MINIMIZE ESCAPE OF SEDIMENTS INTO THE WATERWAY.
- 5. THE WEIGHTED ANCHOR SYSTEMS SHALL BE A TYPE THAT ALLOWS THE CURTAIN TO CONFORM TO THE CONTOUR OF THE BOTTOM ON THE WATERWAY.

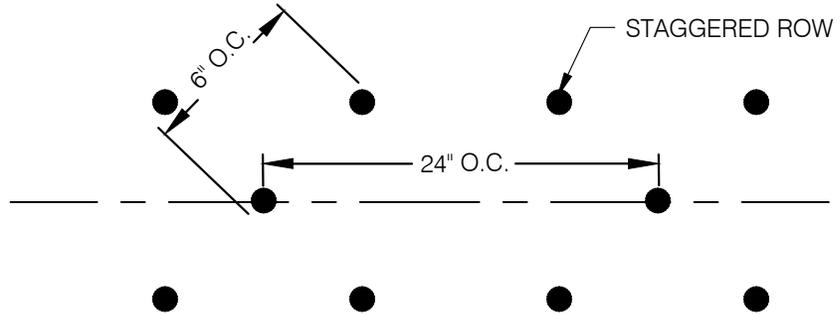
THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK JAMAICA BAY QUEENS COUNTY, NEW YORK NYC DEPARTMENT OF PARKS & RECREATION	TURBIDITY CURTAIN DETAIL	JANUARY 24, 2023
	SCALE: N.T.S.	23 OF 25



SECTION

NOTES

1. ON CENTER, TYP. SEE PLANT SCHEDULE NOTES FOR SPACING.
2. BACKFILL SO THAT PLUGS ARE HELD FIRMLY IN PLACE.



TRIANGULAR SPACING

PLANT SCHEDULE

	AREA	SIZE	MIN. HT.	EL. (FT)	%FILL	SPACING (CLUSTER OF 5)
<u>A - LOW MARSH</u>	31,214 SF					
SPARTINA ALTERNIFLORA		2" PLUG	12" HT	0-3.0	75%	CLUSTERS 24" OC
SPARTINA CYNOSUROIDES		2" PLUG	12" HT	0-3.0	25%	CLUSTERS 24" OC
<u>B - MARSH TRANSITION</u>	13,763 SF					
BOLBOSCHOENUS ROBUSTUS		2" PLUG	12" HT	2.0-3.0	10%	CLUSTERS 24" OC
DISTICHLIS SPICATA		2" PLUG	12" HT	2.0-3.0	23%	CLUSTERS 24" OC
SCHOENOPLECTUS AMERICANUS		2" PLUG	12" HT	2.0-3.0	10%	CLUSTERS 24" OC
SPARTINA ALTERNIFLORA		2" PLUG	12" HT	0-3.0	25%	CLUSTERS 24" OC
SPARTINA CYNOSUROIDES		2" PLUG	12" HT	0-3.0	10%	CLUSTERS 24" OC
SPARTINA PATENS		2" PLUG	12" HT	2.0-3.0	22%	CLUSTERS 24" OC
<u>C - HIGH MARSH</u>	10,600 SF					
DISTICHLIS SPICATA		2" PLUG	12" HT	2.0-3.0	30%	CLUSTERS 24" OC
JUNCUS GERARDII		2" PLUG	12" HT	2.5-3.0	20%	CLUSTERS 24" OC
PLUCHEA ODORATA		2" PLUG	12" HT	2.5-3.0	5%	CLUSTERS 24" OC
SOLIDAGO SEMPERVIRENS		2" PLUG	12" HT	2.5-3.0	10%	CLUSTERS 24" OC
SPARTINA PATENS		2" PLUG	12" HT	2.0-3.0	30%	CLUSTERS 24" OC
SYMPHYOTRICHUM NOVI-BELGII		2" PLUG	12" HT	2.5-3.0	5%	CLUSTERS 24" OC
<u>D - HIGH MARSH SCRUB</u>	26,819 SF					
DISTICHLIS SPICATA		2" PLUG	12" HT	2.0-3.0	25%	CLUSTERS 24" OC
HIBISCUS MOSCHEUTOS		2" PLUG	12" HT	3.0-4.5	10%	CLUSTERS 24" OC
JUNCUS GERARDII		2" PLUG	12" HT	2.5-3.0	15%	CLUSTERS 24" OC
PLUCHEA ODORATA		2" PLUG	12" HT	2.5-3.0	10%	CLUSTERS 24" OC
SOLIDAGO SEMPERVIRENS		2" PLUG	12" HT	2.5-3.0	15%	CLUSTERS 24" OC
SPARTINA PATENS		2" PLUG	12" HT	2.0-3.0	25%	CLUSTERS 24" OC
BACCHARIS HALIMIFOLIA		1 GAL. POT		4.5-10	100%	60" OC

THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK JAMAICA BAY QUEENS COUNTY, NEW YORK NYC DEPARTMENT OF PARKS & RECREATION

EROSION CONTROL PLUG PLANTING DETAIL & SCHEDULE

JANUARY 24, 2023

SCALE: N.T.S.

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PROPOSED ACTIVITY QUANTITIES			
PROPOSED ACTIVITY	SOMMERVILLE BASIN	CONCH BASIN	TOTAL
WETLAND RESTORATION I - MARSH RE-CREATION			
RESTORED (PROPOSED PLANTED) AREA BELOW EXISTING SHW (SF)	51,555	0	51,555
RESTORED (PROPOSED PLANTED) AREA BELOW PROPOSED SHW (SF)	36,441	0	36,441
EXISTING RESOURCE PROPOSED TO BE RELOCATED BELOW EXISTING SHW (HUMMOCK TRANSPLANT)	13,118	0	13,118
EXCAVATION WITHIN SHALLOW WATER (STONE SILL) (CY)	270	0	270
SAND PLACED WITHIN WETLAND AND SHALLOW WATER BELOW EXISTING SHW - VOLUME (CY)	14,859	0	14,859
STONE PLACED WITHIN WETLAND AND SHALLOW WATER BELOW EXISTING SHW - VOLUME (CY)	1,500	0	1,500
SAND PLACED WITHIN WETLAND AND SHALLOW WATER BELOW EXISTING SHW - AREA (SF)	62,720	0	62,720
STONE PLACED WITHIN WETLAND AND SHALLOW WATER BELOW EXISTING SHW - AREA (SF)	16,200	0	16,200
WETLAND RESTORATION II - DEBRIS / REMOVALS AND MARSH REPAIR			
RESTORED (PROPOSED PLANTED) AREA BELOW EXISTING SHW (SF)	13,956	3,228	17,184
EXCAVATION AND FILL REMOVAL VOLUME BELOW EXISTING SHW (CY)	2,149	650	2,799
SAND PLACEMENT (BACKFILL) VOLUME BELOW EXISTING SHW (CY)	1,512	441	1,953
MAX TEMPORARY FILL (MARSH MATS) AREA BELOW EXISTING SHW (SF)	600	0	600
PLANTING AREAS PROJECT TOTAL: WETLAND RESTORATION I & II			
EXISTING RESOURCE PROPOSED TO BE RELOCATED BELOW EXISTING SHW (HUMMOCK TRANSPLANT)	13,118	0	13,118
LOW MARSH BELOW PROPOSED SHW (ELEV 0 TO +3.0 FT NAVD88) (SF)	27,923	3,291	31,214
MARSH TRANSITION BELOW PROPOSED SHW (ELEV 0 TO +3.0 FT NAVD88) (SF)	10,092	3,671	13,763
HIGH MARSH BELOW PROPOSED SHW (ELEV +2.0 TO +3.0 FT NAVD88) (SF)	10,388	212	10,600
HIGH MARSH SCRUB BELOW PROPOSED SHW (ELEV +2.0 TO +2.8 FT NAVD88) (SF)	2,286	101	2,387
HIGH MARSH SCRUB ABOVE PROPOSED SHW (ELEV +2.8 TO +5.0 FT NAVD88) (SF)	20,616	3,816	24,432
TOTAL PLANTING AREA (SF)	84,423	11,091	95,514
Units: (SF) square feet, (CY) cubic yards *SHW is elevation +2.8' NAVD88. "Within wetland" is below SHW.			

THE RECONSTRUCTION OF SHORELINE PROTECTION MEASURES AT ROCKAWAY COMMUNITY PARK JAMAICA BAY QUEENS COUNTY, NEW YORK NYC DEPARTMENT OF PARKS & RECREATION	PROPOSED ACTIVITY QUANTITIES TABLE	JANUARY 24, 2023
		25 OF 25