

# 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 reply refer to:  
Public Notice Number: **NAN-2020-00443-EMI**  
Issue Date: **August 3, 2022**  
Expiration Date: **September 2, 2022**

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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 Economic Development Corporation  
                      1 Liberty Street  
                      New York, New York 10006

ACTIVITY:        Reconstruction of a Riprap Revetment

WATERWAY:      Upper New York Bay

LOCATION:        Stapleton Waterfront (455 Front Street), Borough of Staten Island, Richmond 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.

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

**CENAN-OP-RE**

**PUBLIC NOTICE NO. NAN-2020-00443-EMI**

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>.

*Rosita Miranda* Date: 2022.07.29  
08:52:30 -04'00'

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

Enclosures

**CENAN-OP-RE**  
**PUBLIC NOTICE NO. NAN-2020-00443-EMI**

**WORK DESCRIPTION**

The permit applicant, New York City Economic Development Corporation (NYCEDC), has requested Department of the Army (DA) authorization to stabilize the Stapleton Waterfront shoreline by removing and reconstructing a new revetment. The project is located in Upper New York Bay along the Stapleton Waterfront in the Borough of Staten Island, Richmond County, City of New York, New York.

The proposed work would involve the following:

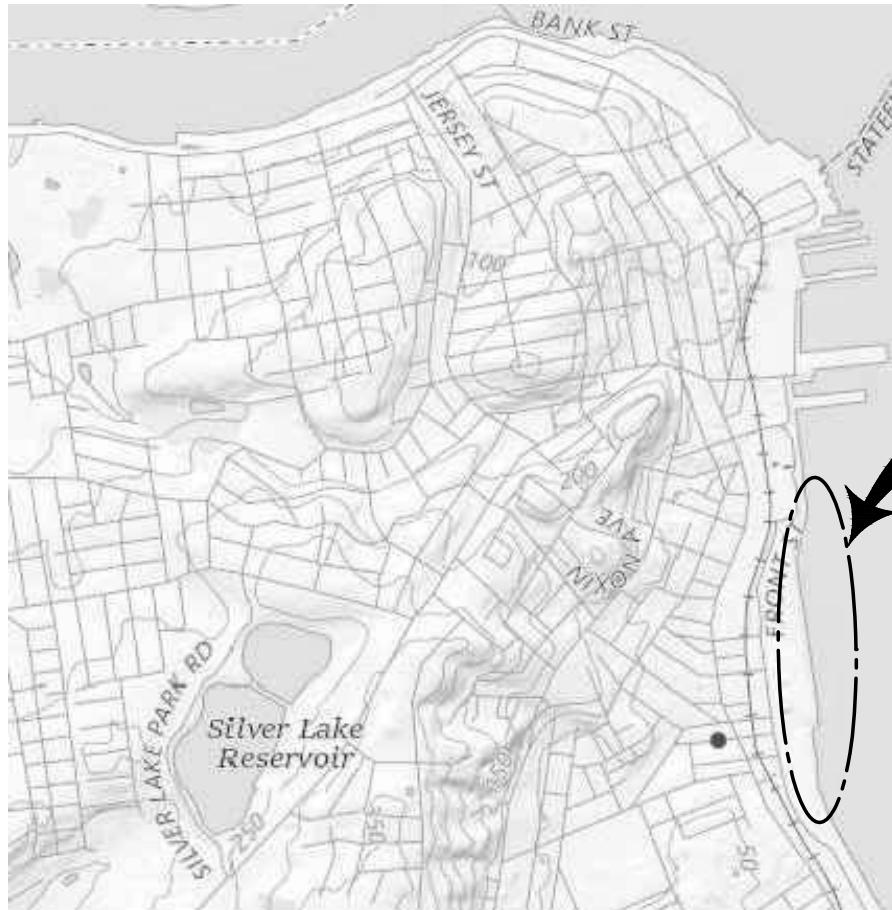
Construct approximately 2,550 linear feet of riprap revetment in two sections (North Phase and South Phase) along the Stapleton Waterfront by removing approximately 13,969 cubic yards of debris and existing deteriorated riprap. The North Phase will involve the replacement of approximately 280 linear feet of bulkhead with approximately 280 linear feet of gravity wall and the construction of an approximately 1,180 linear foot riprap revetment with varying widths (approximately 7.5-27 feet wide) totaling approximately 11,930 square feet. The South Phase will involve the construction of an approximately 1,470 linear foot revetment with varying widths (approximately 27-33 feet wide) totaling approximately 21,820 square feet. Additionally, approximately six (6) one-foot diameter drainage pipes will be constructed through the revetment.

Within the North Phase section of the riprap revetment, a stone splash pad ranging from approximately 6.5 to 20.5 feet wide by approximately 18 feet long will be constructed at an existing 48-inch diameter outfall. Within the South Phase section of riprap revetment, an existing approximately 36-inch diameter outfall will be rerouted and a new stone splash pad ranging from approximately 6.2 to 16.5 feet wide by 14.5 feet long will be constructed. Additionally, a new 98-inch wide by 58-inch high elliptical outfall will be constructed within the revetment with a new stone splash pad ranging from 12.5 to 36.5 feet wide by approximately 25 feet long.

In total, approximately 13,660 cubic yards of stone material will be discharged below the plane of Spring High Water over 34,740 square feet.

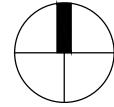
The applicant has stated that they have avoided, minimized, and mitigated for potential impacts proposed to the maximum extent practicable by utilizing a turbidity curtain around the construction areas and conducting work at low tide, as practicable.

The stated purpose of this project is to stabilize the shoreline in the Stapleton neighborhood of Staten Island.



LOCATION MAP

N.T.S.



PURPOSE: WATERFRONT  
REHABILITATION  
DATUM: NAVD88  
ADJACENT OWNERS:  
1. SEE ATTACHED LIST

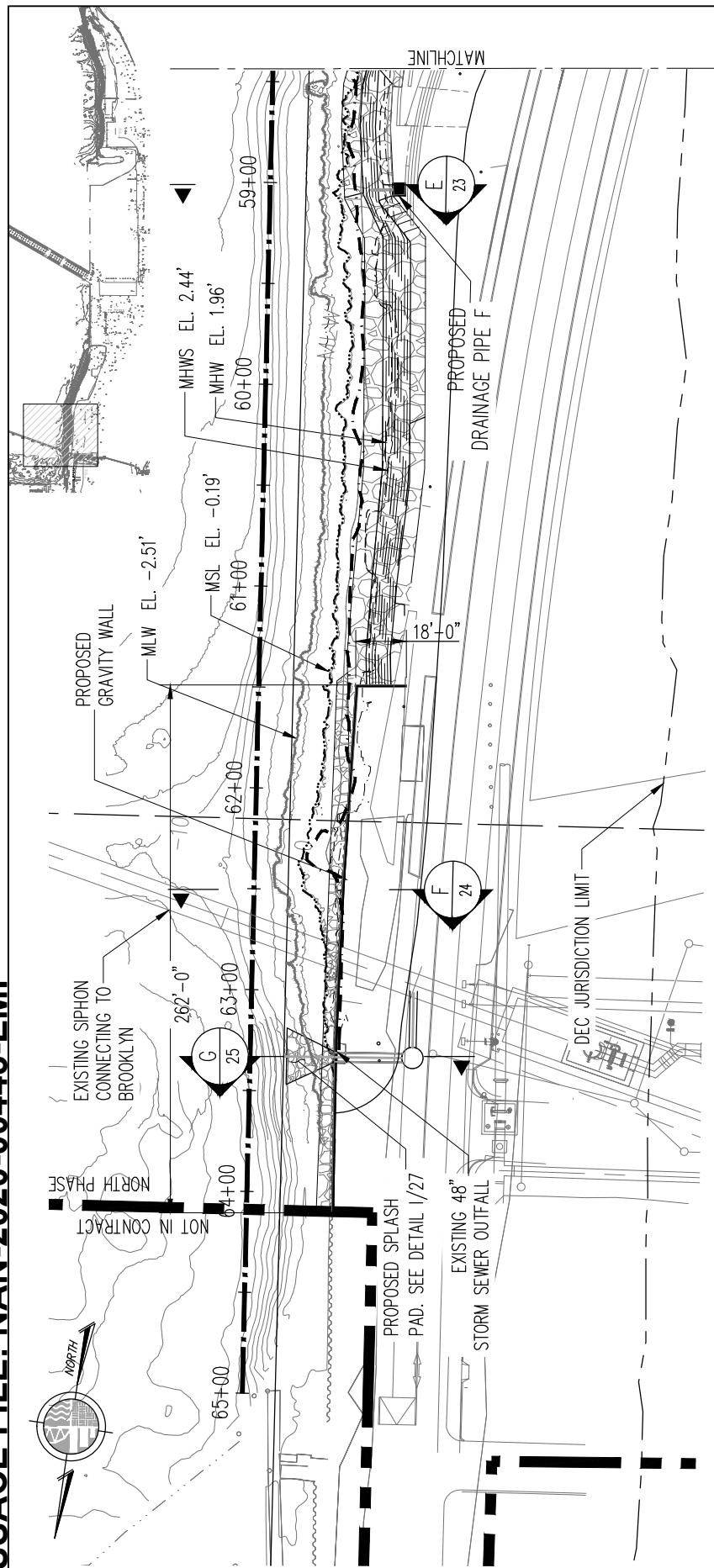
NEW STAPLETON WATERFRONT

APPLICANT: NEW YORK ECONOMIC  
DEVELOPMENT CORPORATION  
1 LIBERTY STREET,  
NEW YORK, N.Y. 10006  
AGENT: M.G. McLAREN, P.C.  
131 W 35TH STREET, 4TH FLR  
NEW YORK, NY 10001

LOCATION MAP

IN: STATEN ISLAND, NY  
AT: STAPLETON  
COUNTY OF: RICHMOND STATE:NY

SHT 1 OF 27



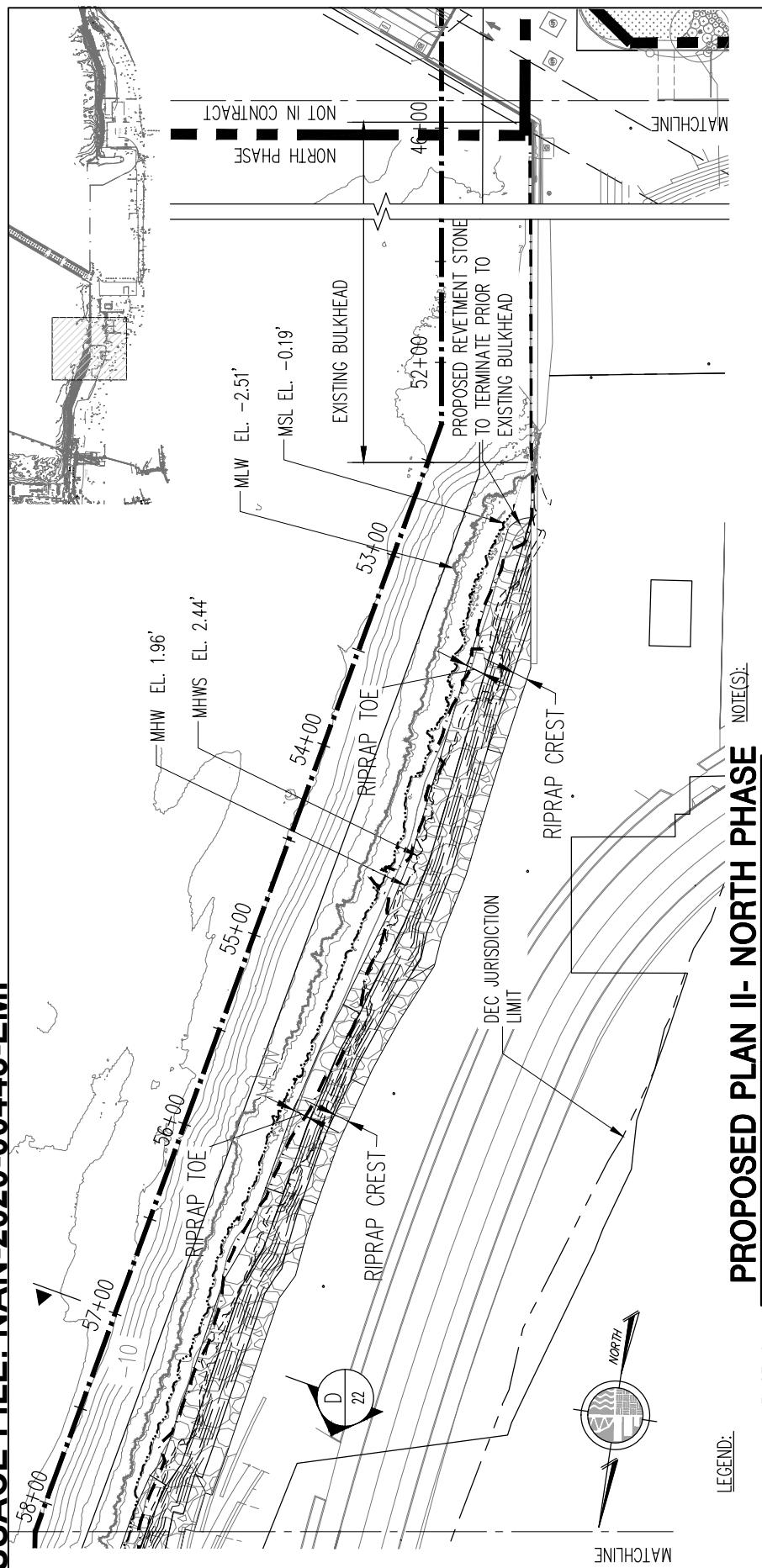
### PROPOSED PLAN I - NORTH PHASE

#### NOTE(S):

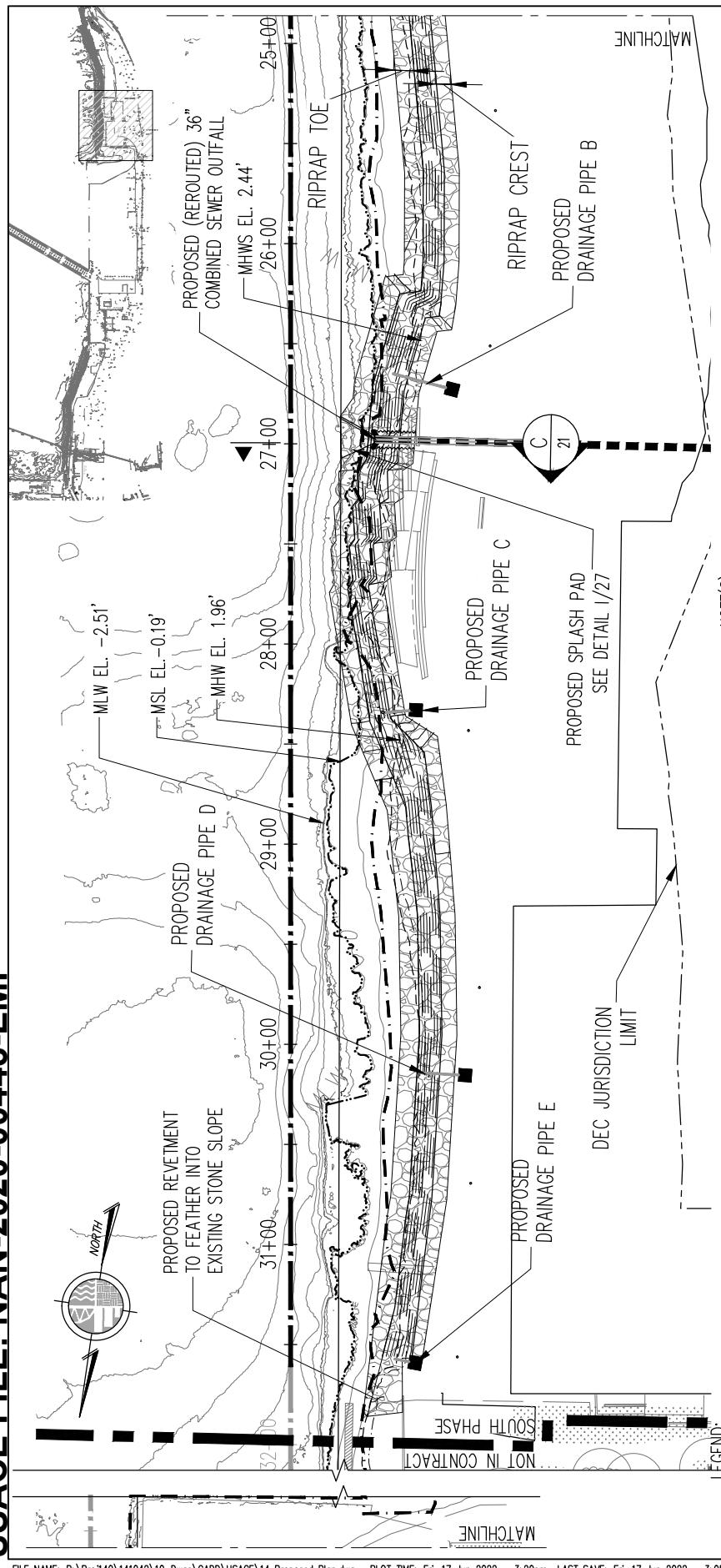
1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.
2. THE TOTAL LENGTH OF PROPOSED BULKHEAD IN THE NORTH PHASE IS APPROXIMATELY 280 FT.
3. THE AREA OF RIPRAP BELOW THE MHWS FOR THE NORTH PHASE (PHASE 3) IS APPROXIMATELY 11,200 FT<sup>2</sup>. THE TOTAL AREA OF RIPRAP BELOW THE MHWS FOR THE SITE IS APPROXIMATELY 34,740 FT<sup>2</sup>.
4. THE LENGTH OF RIPRAP FOR THE NORTH PHASE (PHASE 3) IS APPROXIMATELY 1,200 FT. THE TOTAL LENGTH OF RIPRAP FOR THE SITE IS APPROXIMATELY 2,550 FT.
5. PROPOSED SCHEME RESULTS IN APPROXIMATELY 13,660 CY OF STONE BELOW MHWS FOR THE ENTIRE PROJECT SITE.
6. PROPOSED SCHEME RESULTS IN APPROXIMATELY 13,960 CY OF DEBRIS TO BE REMOVED BELOW MHWS.

PURPOSE: WATERFRONT REHABILITATION	NEW STAPLETON WATERFRONT	PROPOSED PLAN I - NORTH PHASE
DATUM: NAVD 88	APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION 1 LIBERTY STREET NEW YORK, NY 10006	06/17/2022
ADJACENT OWNERS: 1. SEE ATTACHED LIST	AT: STAPLETON IN: STANLEY ISLAND COUNTY OF: RICHMOND STATE: NY	SHT 15 OF 27

AGENT: M.G. McLaren, P.C.  
131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001



PURPOSE: WATERFRONT REHABILITATION	NEW STAPLETON WATERFRONT	PROPOSED PLAN II- NORTH PHASE
DATUM: NAVD 88	APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION 1 LIBERTY STREET NEW YORK, NY 10006	06/17/2022
ADJACENT OWNERS: 1. SEE ATTACHED LIST	AT: STAPLETON IN: STANLEY ISLAND COUNTY OF: RICHMOND STATE: NY	SHT 16 OF 27

**LEGEND.**

— Existing MHWS

— Existing MHW

— Existing MSL

— Existing MLW

— DEC JURISDICTION LIMIT

~~~~~ PROPOSED REVETMENT

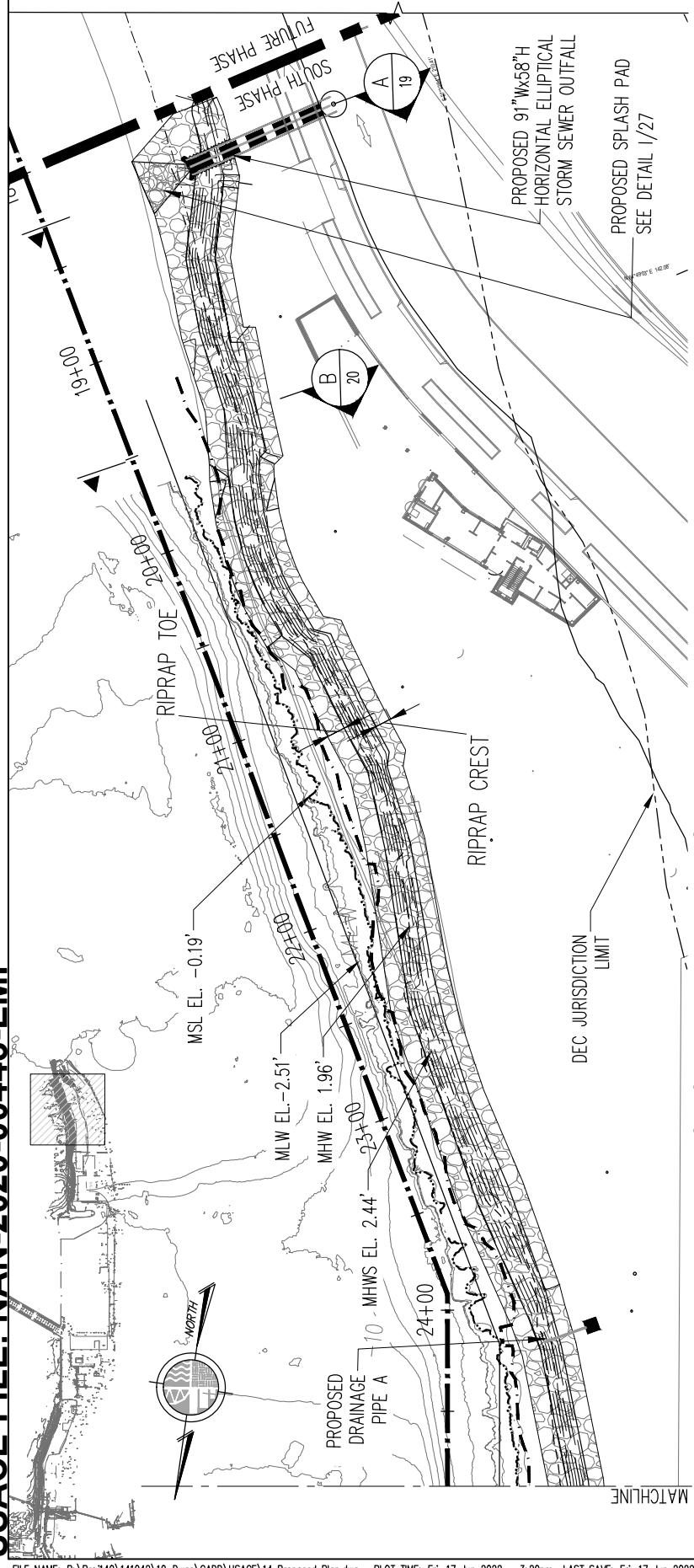
~~~~~ PROPOSED SHEET PILE

**PROPOSED PLAN I - SOUTH PHASE**

1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.
2. THE AREA OF RIPRAP BELOW THE MHWS FOR THE SOUTH PHASE (PHASE 2) IS APPROXIMATELY 23,540 FT<sup>2</sup>. THE TOTAL AREA OF RIPRAP BELOW THE MHWS FOR THE SITE IS APPROXIMATELY 34,740 FT<sup>2</sup>.
3. THE LENGTH OF RIPRAP FOR THE SOUTH PHASE (PHASE 2) IS APPROXIMATELY 1,350 FT. THE TOTAL LENGTH OF RIPRAP FOR THE SITE IS APPROXIMATELY 2,550 FT.
4. PROPOSED SCHEME RESULTS IN APPROXIMATELY 13,660 CY OF STONE BELOW MHWS FOR THE ENTIRE PROJECT SITE.
5. PROPOSED SCHEME RESULTS IN APPROXIMATELY 13,960 CY OF DEBRIS TO BE REMOVED BELOW MHWS.

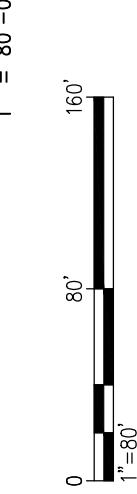
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|------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------|
| PURPOSE: WATERFRONT REHABILITATION       | NEW STAPLETON WATERFRONT                                                                       | PROPOSED PLAN I - SOUTH PHASE |
| DATUM: NAVD 88                           | APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006 | 06/17/2022                    |
| ADJACENT OWNERS:<br>1. SEE ATTACHED LIST | AT: STAPLETON<br>IN: STANLEY ISLAND<br>COUNTY OF: RICHMOND STATE: NY                           | SHT 17 OF 27                  |

AGENT: M.G. McLaren, P.C.  
131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001

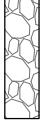


## PROPOSED PLAN II- SOUTH PHASE

NOTE(S):



1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.
2. THE AREA OF RIPRAP BELOW THE MHWS FOR THE SOUTH PHASE (PHASE 2) IS APPROXIMATELY 23,540 FT^2. THE TOTAL AREA OF RIPRAP BELOW THE MHWS FOR THE SITE IS APPROXIMATELY 34,740 FT^2.
3. THE LENGTH OF RIPRAP FOR THE SOUTH PHASE (PHASE 2) IS APPROXIMATELY 1,350 FT. THE TOTAL LENGTH OF RIPRAP FOR THE SITE IS APPROXIMATELY 2,550 FT.
4. PROPOSED SCHEME RESULTS IN APPROXIMATELY 13,660 CY OF STONE BELOW MHWS FOR THE ENTIRE PROJECT SITE.
5. PROPOSED SCHEME RESULTS IN APPROXIMATELY 13,960 CY OF DEBRIS TO BE REMOVED BELOW MHWS.



~~~~~ PROPOSED REVETMENT  
~~~~~ PROPOSED SHEET PILE

PURPOSE: WATERFRONT REHABILITATION  
DATUM: NAVD 88  
ADJACENT OWNERS:  
1. SEE ATTACHED LIST

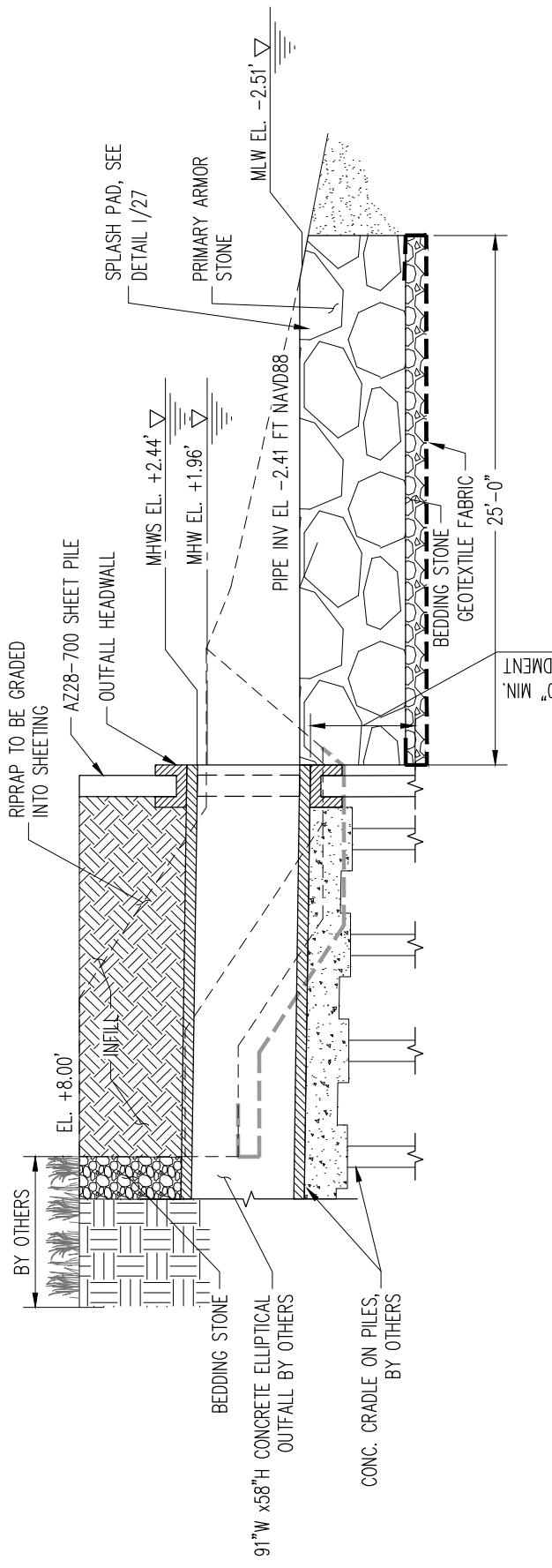
NEW STAPLETON WATERFRONT

PROPOSED PLAN II-  
SOUTH PHASE

06/17/2022

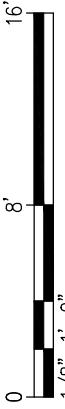
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| AT: STAPLETON<br>IN: STANLEY ISLAND<br>COUNTY OF: RICHMOND | APPLICANT: NEW YORK ECONOMIC<br>DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006 | SHT 18 OF 27 |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------|

AGENT: M.G. McLaren, P.C.  
131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001  
FILE NAME: P:\Proj14\141042\10\_Dwgs\CADD\USACE\14 Proposed Plan.dwg PLOT TIME: Fri, 17 Jun 2022 - 3:20pm LAST SAVE: Fri, 17 Jun 2022 - 3:05pm BY: opazos  
5 OF 14



**PROPOSED OUTFALL  
SECTION AT STA 18+33**

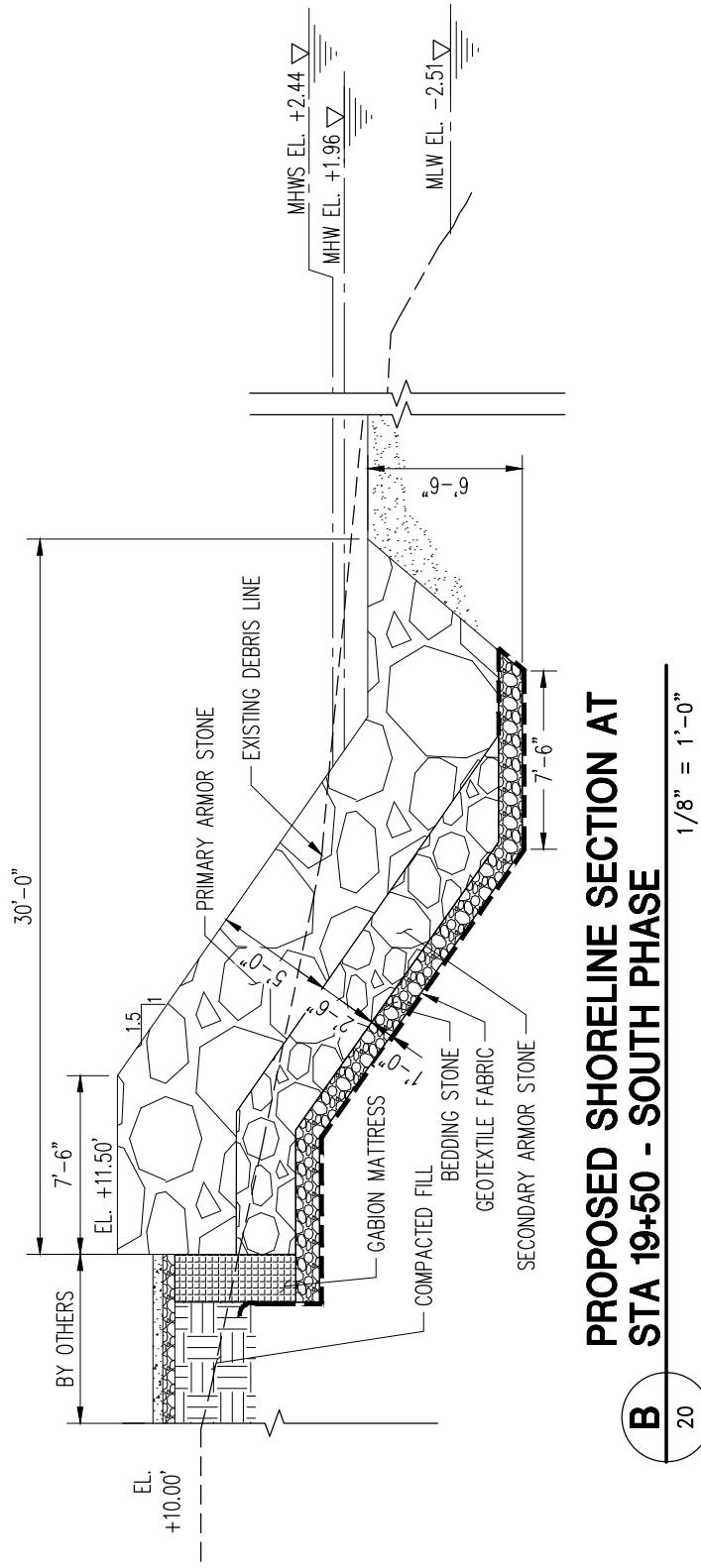
**A**  
19



**NOTE(S):**

1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.
2. PROPOSED OUTFALLS BY OTHERS.

|                                                                                                                                           |                                                                     |                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| PURPOSE: WATERFRONT REHABILITATION                                                                                                        | NEW STAPLETON WATERFRONT                                            | PROPOSED OUTFALL SECTION                                                                                                     |
| DATUM: NAVD 88<br>ADJACENT OWNERS:<br>1. SEE ATTACHED LIST<br><br>AGENT: M.G. McLaren, P.C.<br>131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001 | AT: STAPLETON<br>IN: STATEN ISLAND<br>COUNTY OF: RICHMOND STATE: NY | APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006<br>06/17/2022<br>SHT 19 OF 27 |

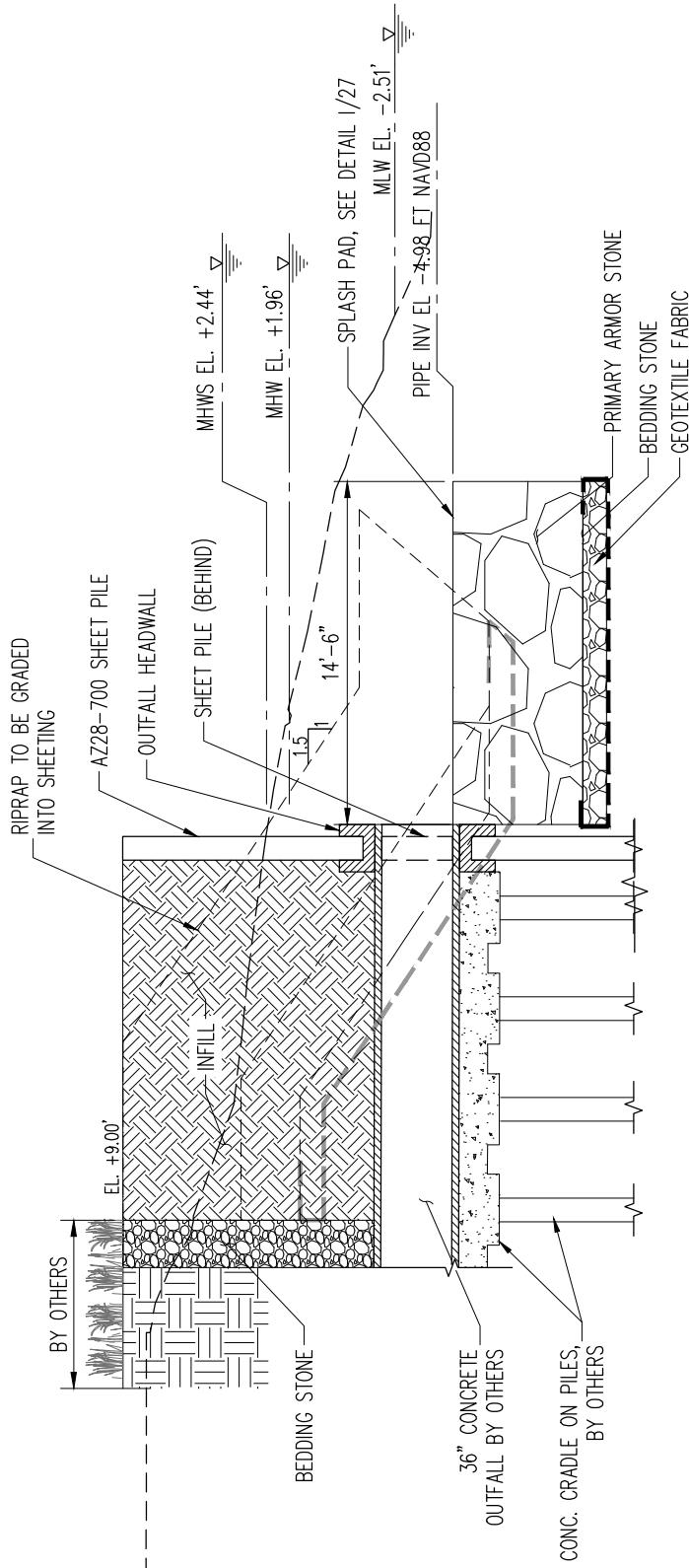


**B STA 19+50 - SOUTH PHASE**

1/8" = 1'-0"

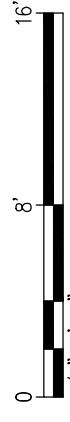
NOTE(S):  
1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.

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|------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| PURPOSE: WATERFRONT REHABILITATION                         | NEW STAPLETON WATERFRONT                                        | PROPOSED SECTION B-SOUTH PHASE                                                                                               |
| DATUM: NAVD 88<br>ADJACENT OWNERS:<br>1. SEE ATTACHED LIST | AT: STAPLETON<br>IN: STANISLAW<br>COUNTY OF: RICHMOND STATE: NY | APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006<br>06/17/2022<br>SHT 20 OF 27 |



**PROPOSED SHORELINE SECTION AT  
STA 27+00 - SOUTH PHASE**

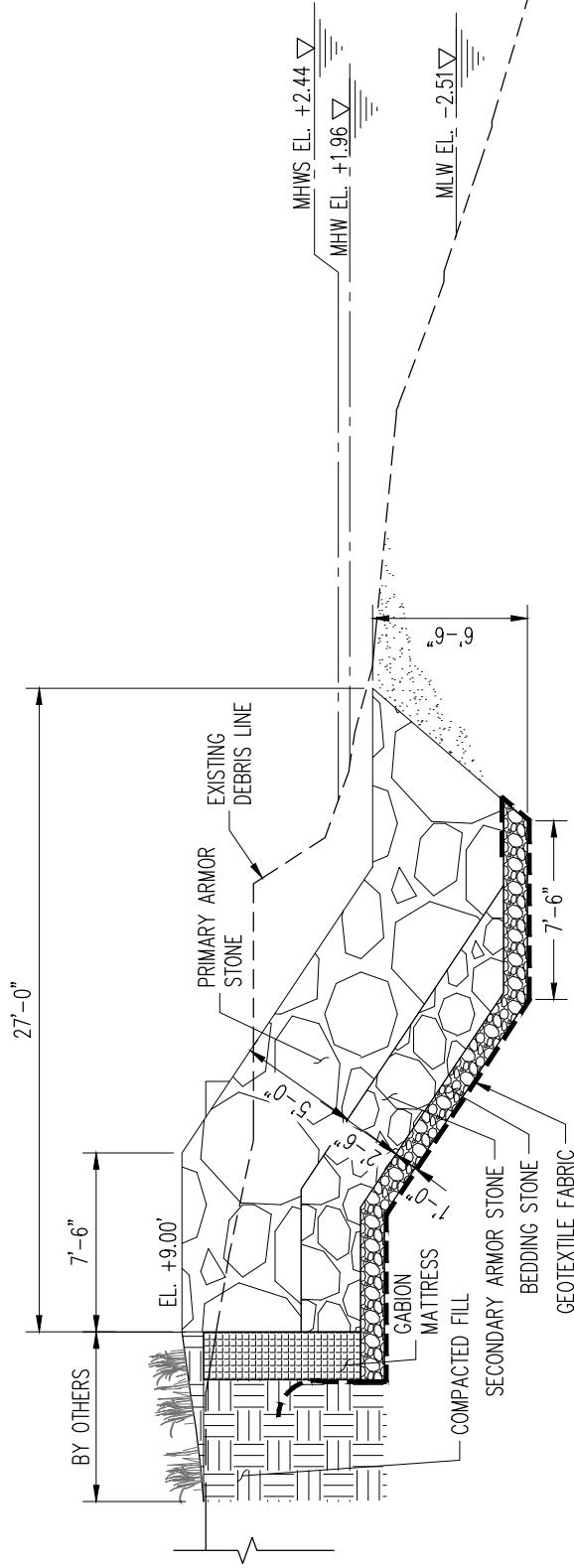
C  
21



NOTE(S):

1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.
2. PROPOSED OUTFALLS BY OTHERS.

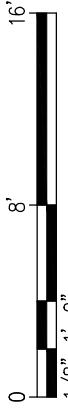
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| PURPOSE: WATERFRONT REHABILITATION                                                                                                        | NEW STAPLETON WATERFRONT                                            | PROPOSED SECTION C-SOUTH PHASE                                                                                                   |
| DATUM: NAVD 88<br>ADJACENT OWNERS:<br>1. SEE ATTACHED LIST<br><br>AGENT: M.G. McLaren, P.C.<br>131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001 | AT: STAPLETON<br>IN: STATEN ISLAND<br>COUNTY OF: RICHMOND STATE: NY | APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006<br><br>SHT 21 OF 27<br>06/17/2022 |



**PROPOSED SHORELINE SECTION AT  
STA 57+00 - NORTH PHASE**

D 22

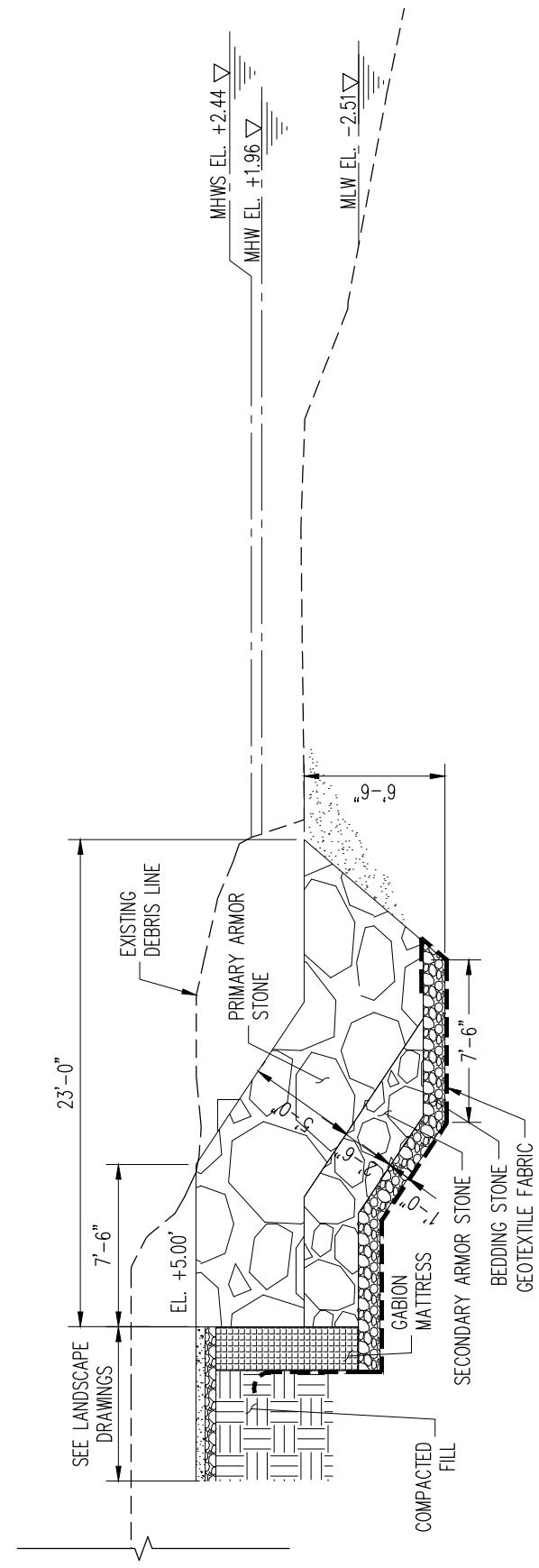
1/8" = 1'-0"



NOTE(S):

1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.

|                                                                                                                                           |                                                                                                                                                                              |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| PURPOSE: WATERFRONT REHABILITATION                                                                                                        | NEW STAPLETON WATERFRONT                                                                                                                                                     | PROPOSED SECTION D-SOUTH PHASE |
| DATUM: NAVD 88<br>ADJACENT OWNERS:<br>1. SEE ATTACHED LIST<br><br>AGENT: M.G. McLaren, P.C.<br>131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001 | AT: STAPLETON<br>IN: STATEN ISLAND<br>COUNTY OF: RICHMOND STATE: NY<br><br>APPLICANT: NEW YORK ECONOMIC<br>DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006 | 06/17/2022<br><br>SHT 22 OF 27 |

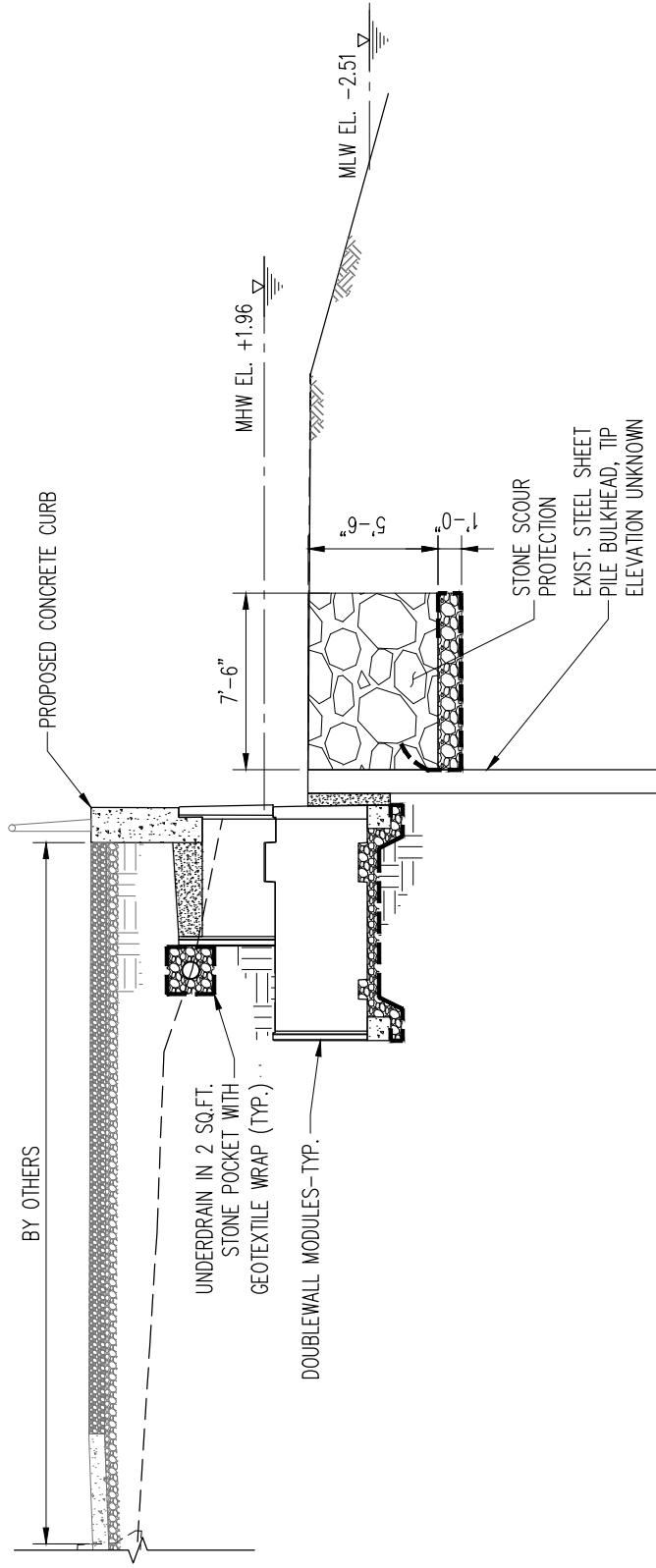


**PROPOSED SHORELINE SECTION AT  
STA 59+00 - NORTH PHASE**

E  
23

NOTE(S):  
1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.

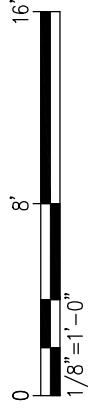
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|------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| PURPOSE: WATERFRONT REHABILITATION                         | NEW STAPLETON WATERFRONT                                            | PROPOSED SECTION E-NORTH PHASE                                                                                               |
| DATUM: NAVD 88<br>ADJACENT OWNERS:<br>1. SEE ATTACHED LIST | AT: STAPLETON<br>IN: STATEN ISLAND<br>COUNTY OF: RICHMOND STATE: NY | APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006<br>06/17/2022<br>SHT 23 OF 27 |



**PROPOSED SHORELINE SECTION  
F STA 62+50 - NORTH PHASE**

24

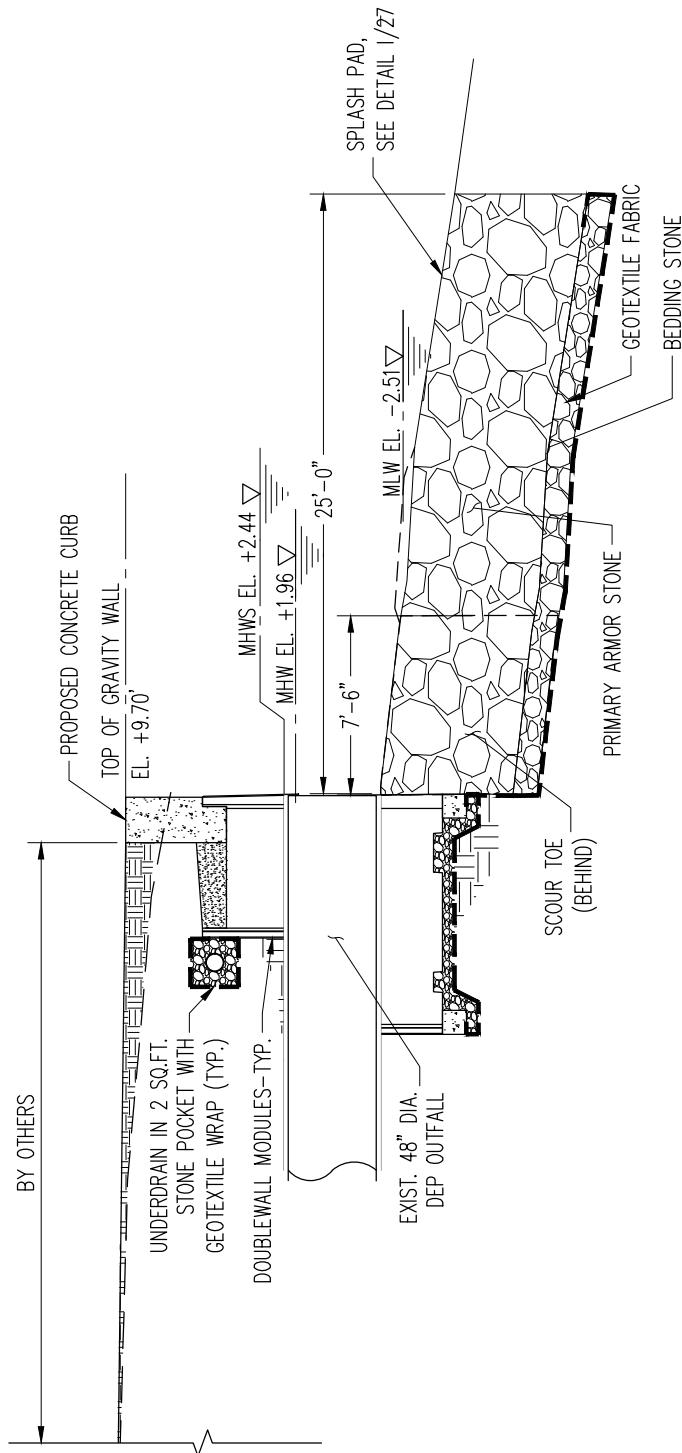
1/8" = 1'-0"



NOTE(S):

1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.

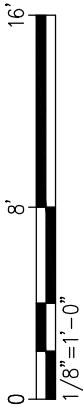
| PURPOSE: WATERFRONT REHABILITATION                                                                                                                  | NEW STAPLETON WATERFRONT                                                     | PROPOSED SECTION F-NORTH PHASE                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <p>DATUM: NAVD 88<br/>ADJACENT OWNERS:<br/>1. SEE ATTACHED LIST</p> <p>AGENT: M.G. McLaren, P.C.<br/>131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001</p> | <p>AT: STAPLETON<br/>IN: STATEN ISLAND<br/>COUNTY OF: RICHMOND STATE: NY</p> | <p>APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION<br/>1 LIBERTY STREET<br/>NEW YORK, NY 10006</p> <p>06/17/2022</p> |



**GRAVITY WALL BULKHEAD  
STA 63+30 - NORTH PHASE**

G  
25

1/8" = 1'-0"

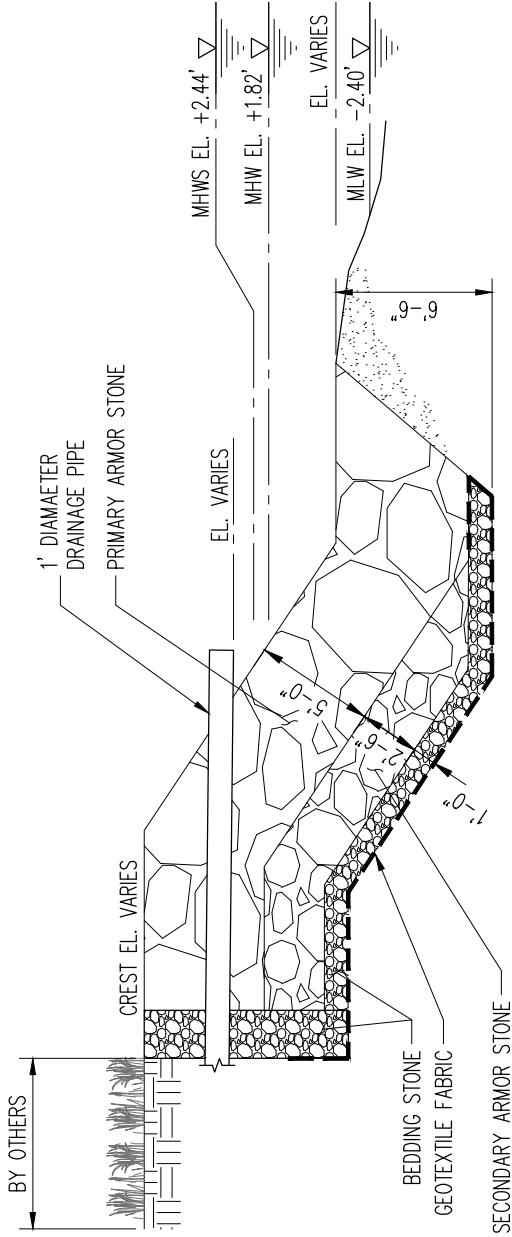


NOTE(S):

1. THE VERTICAL DATUM FOR ALL ELEVATIONS IS FT. NAVD88.

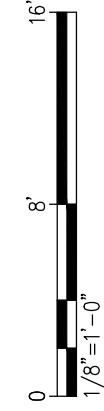
PURPOSE: WATERFRONT REHABILITATION  
DATUM: NAVD 88  
ADJACENT OWNERS:  
1. SEE ATTACHED LIST

|                                                                         |                                                                                                   |                                                  |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------|
| AGENT: M.G. McLaren, P.C.<br>131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001 | APPLICANT: NEW YORK ECONOMIC<br>DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006 | PROPOSED SECTION G-<br>NORTH PHASE<br>06/17/2022 |
| SHT 25 OF 27                                                            | SHT 25 OF 27                                                                                      | SHT 25 OF 27                                     |



**PROPOSED DRAINAGE PIPES  
TYPICAL DETAIL**

$1/8'' = 1'-0''$



NOTE:

1. DETAIL SHOWN IS TYPICAL AND INVERT ELEVATION VARIES BASED ON OUTFALL LOCATION IN SOUTH PHASE. SEE TABLE FOR TOP OF PIPE INVERTS.
2. PROPOSED OUTFALLS BY OTHERS.

H  
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| PIPE NO. | OUTFALL INV. EL. |
|----------|------------------|
| A        | 3.28             |
| B        | 4.79             |
| C        | 3.03             |
| D        | 3.78             |
| E        | 4.54             |
| F        | 2.99             |

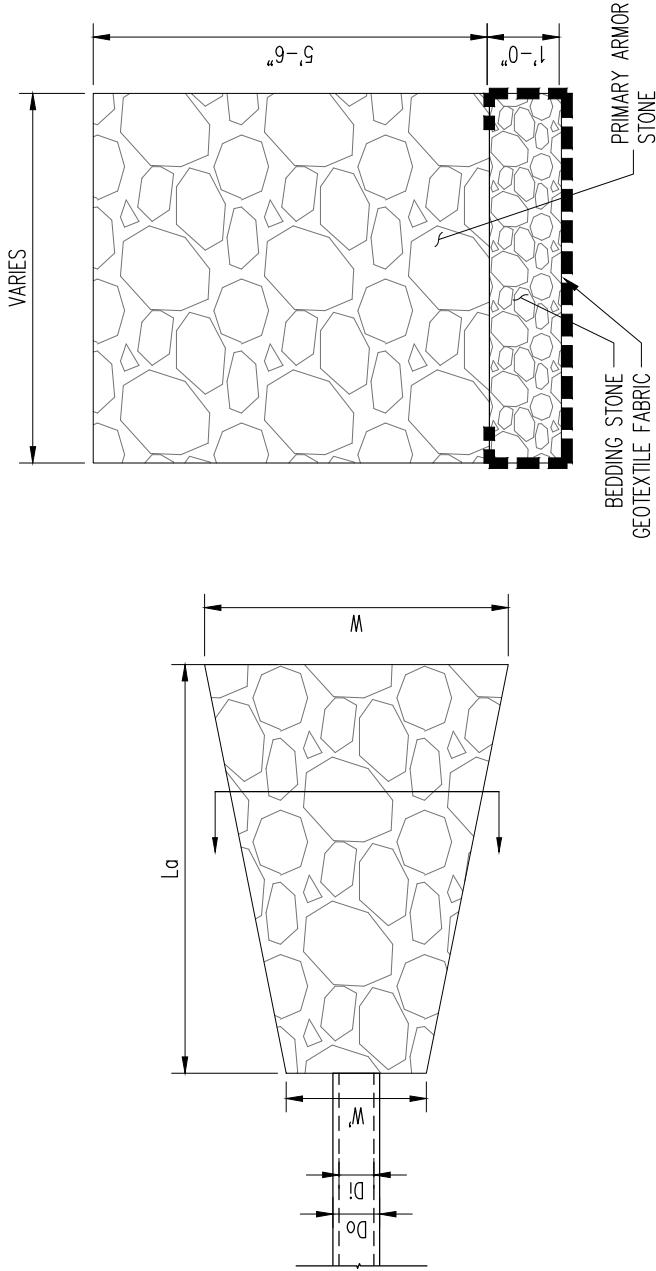
PURPOSE: WATERFRONT REHABILITATION  
DATUM: NAVD 88  
ADJACENT OWNERS:  
1. SEE ATTACHED LIST

PROPOSED DRAINAGE  
PIPES- TYPICAL DETAIL

06/17/2022

|                                                           |                                                                                                   |              |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------|
| AT: STAPLETON<br>IN: STATEN ISLAND<br>COUNTY OF: RICHMOND | APPLICANT: NEW YORK ECONOMIC<br>DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006 | SHT 26 OF 27 |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------|

AGENT: M.G. McLaren, P.C.  
131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001  
FILE NAME: P:\Proj140\141042\10\_Dwgs\CADD\USACE\18 Proposed sections.dwg PLOT TIME: Fri, 17 Jun 2022 - 3:21pm LAST SAVE: Fri, 17 Jun 2022 - 2:46pm BY: opazos  
13 OF 14



| OUTFALL          | PHASE | STA   | W'(FT) | D <sub>i</sub> (in) | D <sub>o</sub> (in) | L <sub>a</sub> (FT) | W (FT) |
|------------------|-------|-------|--------|---------------------|---------------------|---------------------|--------|
| EXISTING OUTFALL | NORTH | 63+15 | 6.5    | 48                  | 58                  | 18                  | 20.5   |
| PROPOSED OUTFALL | SOUTH | 27+00 | 6.2    | 36                  | 43                  | 14.5                | 16.5   |
| PROPOSED OUTFALL | SOUTH | 18+33 | 12.5   | 91                  | 106                 | 25                  | 36.5   |

## I 27 SPLASH PAD DETAIL

N.T.S.

- NOTE:  
 1. SPLASH PAD TO FOLLOW EXISTING GRADE.  
 2. PROPOSED OUTFALLS BY OTHERS.

|                                                                                                  |                                                                                                |                            |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------|
| PURPOSE: WATERFRONT REHABILITATION<br>DATUM: NAVD 88<br>ADJACENT OWNERS:<br>1. SEE ATTACHED LIST | NEW STAPLETON WATERFRONT                                                                       | SPLASH PAD DETAIL          |
| AGENT: M.G. McLaren, P.C.<br>131 W 35TH ST, 4TH FLR, NEW YORK, NY 10001                          | APPLICANT: NEW YORK ECONOMIC DEVELOPMENT CORPORATION<br>1 LIBERTY STREET<br>NEW YORK, NY 10006 | 06/17/2022<br>SHT 27 OF 27 |