



Maryland

Department of the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

COMPREHENSIVE FLOOD MANAGEMENT GRANT PROGRAM **APPLICATION FOR STATE FY 2024 CAPITAL PROJECT FINANCIAL ASSISTANCE**

For application assistance, please contact Jeff Fretwell at jeffrey.fretwell@maryland.gov or 410-537-3119 For technical assistance, please contact Walid Saffouri at walid.saffouri@maryland.gov

- State grant funds are generally available on June 1 of the year that funding was approved by the Maryland General Assembly. All projects must be approved by the Maryland Board of Public Works. MDE will not present projects to the Board of Public Works to encumber funds until all applicable requirements are met and typically not until construction bids are approved.
- All projects receiving State and/or Federal funding are required to comply with Minority and Women Business Enterprise (grant only projects) and Disadvantaged Business Enterprise (WQRLF projects) participation requirements. Please visit the following website: [M/WBE and DBE Guidance](#) for requirements, threshold levels, and forms.
- MDE will only accept applications for Comprehensive Flood Management Grant funds submitted electronically via email to mde.wqfa_announcement@maryland.gov. The subject line must say FLOOD APPLICATION. Applications are due by 11:59 PM on **January 31, 2022**. **Please note, maximum file size that can be accepted via email is 25MB. If you need assistance with large files please contact Jeff Fretwell.**
- In the email, please submit one SIGNED copy of the complete application, attachments, all supporting documents, and provide a FIRMette created from FEMA's Map Service Center website, <https://msc.fema.gov/portal/home>, a map from our outreach website, <https://mdfloodmaps.net/>, or a GIS map with the project location clearly identified.

I. APPLICANT INFORMATION

Applicant Name: (Must be a jurisdiction) Town of North Beach
Applicant Address: 8916 Chesapeake Avenue, PO Box 99
City: North Beach **County:** Calvert **ZIP:** 20714-0001
Federal Tax Identification Number: 52-0544956 (include 9-digit Zip Code)

Project Name: Enhancing Existing Shore Erosion Structure
Project Address: Atlantic Avenue
City: North Beach **County:** Calvert **ZIP:** 20714
 (Provide for location of the funded activity. If project spans large area, enter street address that best represents center of project area.)

COMPREHENSIVE FLOOD MANAGEMENT GRANT PROGRAM
APPLICATION FOR STATE FY 2024 CAPITAL PROJECT FINANCIAL ASSISTANCE

II. CONTACT INFORMATION

Contact Person: Donnie Bowen Title: Director of Public Works
 Contact Address: (include 9-digit Zip Code) PO Box 99, North Beach, MD 20714-0001
 Phone: 443.624.2161 Ext: _____ Email: dbowen@northbeachmd.org
 Contact Person: _____ Title: _____
 Contact Address: (include 9-digit Zip Code) _____
 Phone: _____ Ext: _____ Email: _____

III. PROJECT TYPE [Check appropriate project type.]

- ☐ Study
- ☐ Property Acquisition
- ☐ Elevation
- ☐ Measures to manage, reduce, treat, or recapture stormwater or subsurface drainage water.
- ☐ Stream/shoreline restoration
- ☐ Wetland creation or restoration
- ☐ Mitigate damage from Land Subsidence
- ☐ Mitigate damage from Mud/Landslide
- ☒ Mitigate damage from severe storm
- ☐ Nuisance Flooding
- ☐ Dam/Levee
- ☐ Other: _____

IV. PROJECT INFORMATION (Attach a copy of a current street map with the exact project location clearly marked.)

Project Name: Enhancing Existing Shore Erosion Structure
 County: Calvert Latitude: (00.000000) 38.709510 Longitude: -76.529549
 See [Convert Project Address to Latitude/Longitude](#) for help.
 Congressional District: 5 [Find Congressional and Legislative Districts](#)
 Legislative District: 27B

River Basin Designation: Provide the numeric eight-digit watershed designation according to the project location (for wastewater treatment plants, identify according to the permitted point of discharge). [See Maps Here](#) for help.

Watershed Name: West Chesapeake Bay Eight-Digit Designation: 02 13 10 05
 NFIP CID: 2400128
<https://www.fema.gov/national-flood-insurance-program-community-status-book>

Does the Community participate in the National Flood Insurance Program? ☒ Yes ☐ No
 Does the Community have a Local Hazard Mitigation Plan in effect? ☒ Yes ☐ No
 Does the Community participate in the Community Rating System (CRS)? ☐ Yes ☒ No

COMPREHENSIVE FLOOD MANAGEMENT GRANT PROGRAM
APPLICATION FOR STATE FY 2024 CAPITAL PROJECT FINANCIAL ASSISTANCE

TAKE NOTE OF THE FOLLOWING WHEN COMPLETING THE REMAINDER OF THE APPLICATION

- ✍ Submittal of requested documentation is necessary for the evaluation of the application. Failing to submit requested documents can **significantly impact the final score and rank** of the project.
- ✍ When providing additional information on a separate page, please include the applicant and project name, and refer to the corresponding section number and heading of the application as specified.

- V. **PROJECT PURPOSE AND SUMMARY.** On a separate page titled "Project Purpose and Summary," provide a brief description of the project by answering questions a. through d. in the order shown.
- a. **What is the proposed project?** Include the existing and proposed modifications, length and size of any proposed structures, location and size of target area, drainage acreage, land use, acres restored, linear feet of stream restored etc. Consider the following in your description.
- Ground disturbance
 - Endangered or threatened species and critical habitats
 - Vegetation removed
 - Waterways within 200 feet
 - Dredging or disposal of dredged material
 - Located within 100- or 500-year flood zone
 - Altering water flow or drainage
 - Designated Coastal Zone
 - Site impact on 5 acres of farmland
 - Hazardous materials or contaminants disturbed or involved
- b. **What is the purpose of the project, why is the project needed, and what problem is being corrected?**
- Protect critical infrastructure (power, water and sewer, communications, emergency operations)
 - Mitigate Impact on historic or public site
 - Home has repetitive flooding
 - Mitigate flood impact on community, businesses
- c. **Who is the beneficiary of the project?** Does this affect/protect a low income or minority community?
- d. **Has the project previously or concurrently been submitted to MDE or any other government entity for funding consideration? If so, by what project name, has the scope of work changed since that submittal (explain how, if so), and was the project selected to receive funding?**
- VI. **PROJECT SUPPORTING DOCUMENTS** Please answer the questions below and provide supporting documentation as requested. Failing to submit the requested documents can significantly impact the final score and rank of the project.
- a. **Is the project necessary to address a public health issue (i.e.: contamination of drinking source water supply, surface water, or groundwater)?**
- ☒ **No** ☐ **Yes** Summarize on a separate page and provide information of contamination, contaminate levels, and frequency of occurrence from an approving authority.
- b. **Can the project be credited toward a local Watershed Implementation Plan (WIP) for the Chesapeake Bay Total Maximum Daily Load?**
- ☒ **No** ☐ **Yes** Summarize on a separate page and provide pertinent section(s) of local WIP.
- c. **Will the project work towards alleviating the effects of climate change? Provide resiliency?**
- ☐ **No** ☒ **Yes** Summarize on a separate page.

COMPREHENSIVE FLOOD MANAGEMENT GRANT PROGRAM
APPLICATION FOR STATE FY 2024 CAPITAL PROJECT FINANCIAL ASSISTANCE

- VII. **PROJECT SCHEDULE AND CURRENT STATUS** (Provide the project schedule and architectural/engineering (A/E) firm below.)

Current project status: ☒ Planning ☐ Design ☐ Bidding

Phase	Start (Month/Year)	Completion (Month/Year)	Percent Completion
Planning	February 2022	April 2022	50%
Design	June 2022	October 2022	10%
Bidding	December 2023	January 2023	0
Construction*	March 2023	March 2024	0
*Construction projects must be in construction by December 31, 2025 to be considered for funding.			

- VIII. **PROJECT FUNDING** (Provide sources and uses of funding for the project and identify use(s) of the requested funding. Identify revenue sources for loan repayment, if seeking loan funding, on a separate page.)

a. Identify the Project Funding Sources for the project in the tables below:

MDE Funding Request (this request)	Amount	Description
Total Amount Requested (x.)	\$ 1,200,000	Full amount requested from MDE

Other Funding	Amount		
MDE Grant Amount(s) Previous funding*			
MDE Loan Amount(s) Previous funding*			
		Funds Secured?	Notes
Applicant*	\$ 150,000	☒ Yes ☐ No	Town Funding
MEMA/FEMA		☐ Yes ☐ No	
DNR/NOAA*		☐ Yes ☐ No	
U.S. Corps of Engineers *		☐ Yes ☐ No	
Federal (EPA) STAG/SAAP*		☐ Yes ☐ No	
USDA Rural Development *		☐ Yes ☐ No	
CDBG (DHCD)*	\$ 150,000	☐ Yes ☐ No	Application Next funding round May/June 2022
Miscellaneous*: _____		☒ Yes ☒ No	
Other Funding Total (y.)	\$ 300,000	Total of all Prior and Additional Funding Sources	

*Include costs of planning/design/construction already completed.

Source Total (x. + y.)	\$ 1,500,000	Total Amount requested from MDE plus Other Funding. Total should match the Budget Total in VIII.b.
-------------------------------	---------------------	--

COMPREHENSIVE FLOOD MANAGEMENT GRANT PROGRAM
APPLICATION FOR STATE FY 2024 CAPITAL PROJECT FINANCIAL ASSISTANCE

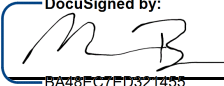
b. Identify the cost-breakout of the budget (Project Budget) in the table below:

Project Funding Use(s)	Amount	MDE Grant Funds?	Is this line item already funded by an "Other Funding"
A/E Planning*	\$ 10,000	☐ Yes ☒ No	☒ Yes ☐ No
A/E Design*	\$ 100,000	☐ Yes ☒ No	☒ Yes ☐ No
A/E Construction Management*	\$ 50,000	☐ Yes ☒ No	☒ Yes ☐ No
Construction*	\$ 1,200,000	☒ Yes ☐ No	☐ Yes ☒ No
Land*		☐ Yes ☒ No	☐ Yes ☒ No
Contingency*	\$ 140,000	☐ Yes ☒ No	☒ Yes ☐ No
Administrative*		☐ Yes ☒ No	☐ Yes ☒ No
Other*: _____		☐ Yes ☐ No	☐ Yes ☐ No
Budget Total	\$ 1,500,000	Total should match the Source Total in VIII.a.	

*Include costs of planning/design/construction already completed.

I CERTIFY I AM AN AUTHORIZED OFFICIAL PERMITTED TO SIGN AND SUBMIT THIS APPLICATION ON BEHALF OF THE APPLICANT. I FURTHER CERTIFY ALL INFORMATION IN THIS APPLICATION AND ATTACHED MATERIALS ARE TRUE AND CORRECT.

Name: Michael Benton Title: Mayor

Authorized Official Signature:  Date: January 31, 2022

APPLICANT: TOWN OF NORTH BEACH**PROJECT NAME: ENHANCING EXISTING SHORE
EROSION STRUCTURE**

For many years, The Town of North Beach, located on the western shore of the Chesapeake Bay, has had to cope with coastal hazards, extreme weather events, stormwater flooding, sea level rise and high tides. While combatting these longstanding problems, the Town has continued to address these detrimental impacts to its shoreline, wetland areas, roadways, and residential and commercial structures.

V. PROJECT PURPOSE AND SUMMARY.

a. This proposal seeks design and construction funding for the enhancement and strengthening of a portion of an existing shore erosion control, i.e., a rock revetement located adjacent to the Chesapeake Bay. See Attachment 1, Proposed Area Map. See also Attachment 2, National Flood Hazard Layer FIRMette map created from FEMA's Map Service Center website. The proposed modifications include adding rock to the existing rock revetement so that the elevation is increased to 5 feet and the width is increased to between 5 to 25 feet. The length of the area under discussion is approximately one-quarter mile.

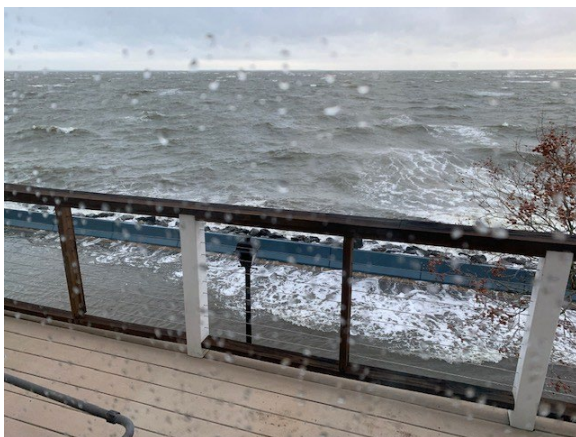
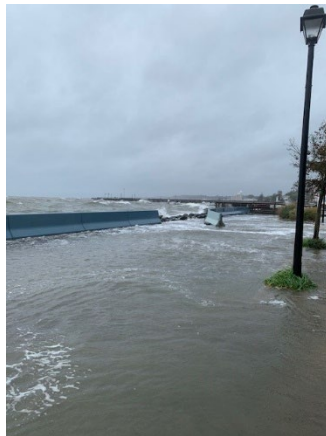
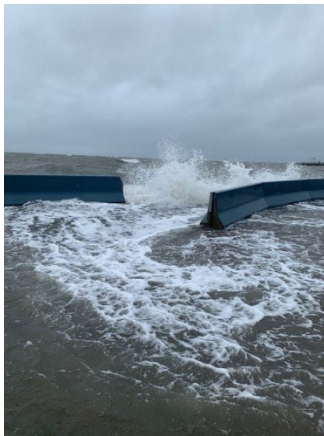
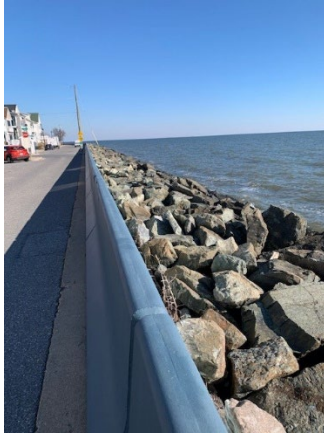
The existing rock revetement was put in place in 1990 to protect a residential area from the impact of storms that roil the Chesapeake Bay. Included on the following three pages is photo documentation of the existing rock revetement and seawall on Atlantic Avenue, the existing rock revetement in front of homes along the boardwalk, and damage to the seawall and boardwalk. Video footage of a recent storm and flooding can be found at the following links:

<https://youtu.be/ENA7d47L9mw> and <https://youtu.be/eLUudQxt0mU>.

APPLICANT: TOWN OF NORTH BEACH

**PROJECT NAME: ENHANCING EXISTING SHORE
EROSION STRUCTURE**

Existing Rock Revetement and Seawall along Atlantic Avenue



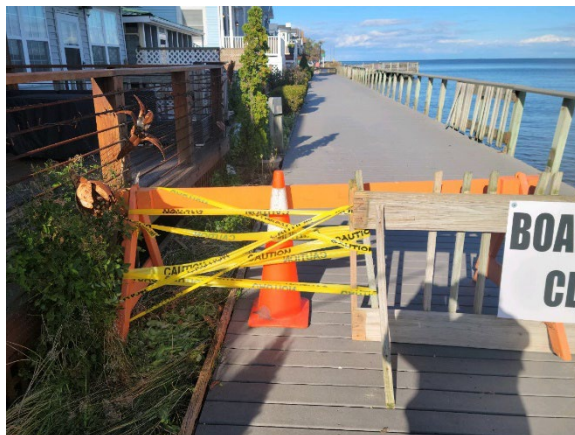
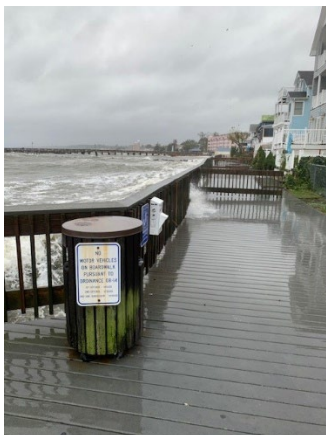
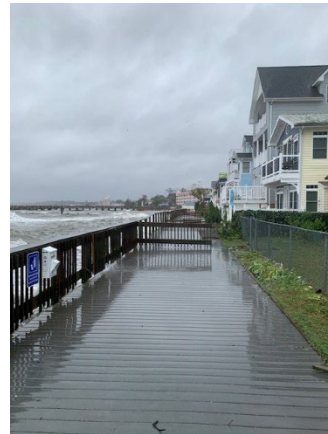
APPLICANT: TOWN OF NORTH BEACH

**PROJECT NAME: ENHANCING EXISTING SHORE
EROSION STRUCTURE**

Existing Rock Revetement in Front of Homes along the Boardwalk



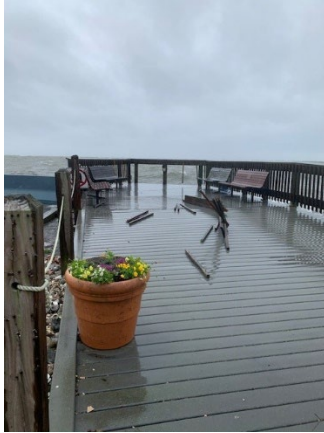
Damage to the Boardwalk and Railing in Front of Homes on the Boardwalk



APPLICANT: TOWN OF NORTH BEACH

**PROJECT NAME: ENHANCING EXISTING SHORE
EROSION STRUCTURE**

***Damage to the Boardwalk and Railing in Front of Homes on the Boardwalk
(continued)***



b. This project has a dual purpose.

First, strengthening the rock revetement is needed to mitigate property damage to residences and the Town's infrastructure, including the road, storm sewer system, sidewalks, boardwalk, and lighting. Strengthening the rock revetement will also ensure public safety that is threatened by frequent and repeated flooding from moderate and severe storms.

There are approximately 101 residences within the "impact zone" of these flood events. The most recent nor'easter (October 28-29, 2021), for example, brought significant coastal surges and wave action that flooded and damaged multiple properties, broke-up portions of the Town's boardwalk, damaged power facilities that caused outages, filled the storm sewer system in this area with debris and silt minimizing its effectiveness, and rendered streets impassable by vehicles for several days. Mayor Benton provided routine updates to Town Council members and town residents on the flood response and recovery. An example of the updates can be found at the following link:

https://www.northbeachmd.org/sites/g/files/vyhli4786/f/uploads/storm_10-21_update. Prior storms (except for Hurricane Isabel, which caused very severe

APPLICANT: TOWN OF NORTH BEACH

**PROJECT NAME: ENHANCING EXISTING SHORE
EROSION STRUCTURE**

damage to the Town) have caused similar outcomes, albeit with less property damage or potential safety issues.

Enhancing the existing rock revetement along Atlantic Avenue and the adjoining portion of the boardwalk will better absorb the energy of incoming water and wave action during these severe storms. It was also help protect North Beach's critical infrastructure, enhancing safety, and reducing the risk of property damage to scores of residential properties.

Second, fortifying this section of the Town's existing shore erosion control structure against incoming surges of water and wave action would significantly increase North Beach's resiliency to climate change, i.e., sea-level rise and the marked increase in the frequency and severity of extreme weather events.

It is important to note that this area faces up to five miles of open water affecting wind and wave formation. It is common for waves to exceed five feet and for the sea spray to hit the second stories of residences, yet the top of the existing rock revetement is just 4 feet high.

c. There are multiple beneficiaries of this project, including residents, business owners and guests to our town. This project would affect the entire community of citizens who live and work in this area, and those who come to North Beach regularly to enjoy the amenities of a popular waterfront town. In addition, the boardwalk is the primary healthy exercise for many of our older population, especially in times of Covid when they can't socially interact inside. Scientifically, social isolation can be as unhealthy as other ailments for the elderly.

d. This project has NOT been previously or concurrently submitted to MDE or any other government entity.

APPLICANT: TOWN OF NORTH BEACH

**PROJECT NAME: ENHANCING EXISTING SHORE
EROSION STRUCTURE**

VI. c. PROJECT SUPPORTING DOCUMENTS SUMMARY.

Like many communities in Maryland's Chesapeake Bay watershed, North Beach has experienced the effects of climate change. The Town has endured heavier and more frequent flooding in recent years from sea-level rise, more severe storms, and increased tidal height and surges.

North Beach's elected leaders believe it is critical to understand the risks associated with climate change and the town's adjacency to the Chesapeake Bay. It is equally critical to aggressively address these risks and build resiliency. As such, the Town is developing a comprehensive flood action plan which can be found here: <https://www.northbeachmd.org/other-documents-and-information/files/dnr-phase-i-final-flood-and-sea-level-rise-action-plan>.

This proposed project also dovetails with several short- and long-term projects that North Beach is undertaking to alleviate the effects of climate change and harden the resiliency of its infrastructure. Those efforts include other structural/engineering projects like grading modifications, water storage and absorption capacity modifications, as well as nature-based projects like living shorelines and flood retention areas.

APPLICANT: TOWN OF NORTH BEACH

PROJECT NAME: ENHANCING EXISTING SHORE
EROSION STRUCTURE

Attachment 1: Proposed Area Map



Proposed Project Area

Rock Revetement (5 x 25 1,320 ft)

★

7th Street Pump Station

★

9th Street Pump Station



APPLICANT: TOWN OF NORTH BEACH

PROJECT NAME: ENHANCING EXISTING SHORE
EROSION STRUCTURE

Attachment 2: National Flood Hazard Layer FIRMette
National Flood Hazard Layer FIRMette



Legend

SEE FIG REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A, V, AE9
- With BFE or Depth Zone AL, AH, AE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee, See Notes, Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/27/2022 at 10:34 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, HRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.