



Maryland

Department of the Environment

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

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

September 10, 2020

Anne Arundel County Dept of Public Works
c/o Chris Rager, Bayland Consultants & Designers, Inc
7455 New Ridge Road, Ste T
Hanover, Maryland 21076

Re: Agency Interest Number: 127736
Tracking Number: 201961706
Tidal Authorization Number: 20-WQC-0045

Dear Anne Arundel County Dept of Public Works:

Your project did not qualify for approval under the Maryland State Programmatic General Permit (MDSPGP); therefore a separate review and issuance of the federal permit will be required by the U.S. Army Corps of Engineers. The federal permit is not attached.

Additionally, your project required a Wetlands License to be approved and issued by the Maryland Board of Public Works (BPW). The Wetlands License will be sent to you by the BPW's Wetlands Administrator.

A project that does not qualify for approval under the MDSPGP requires an individual Water Quality Certification (WQC) to be issued by the Maryland Department of the Environment, which is attached. Please take a moment to read and review your WQC to ensure that you understand the limits of the authorized work and all of the general and special conditions.

You should not begin any work until you have obtained all necessary State, local, and federal authorizations. Please contact Melissa McCanna at melissa.mccanna@maryland.gov or 410-537-4053 with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Danielle Spendiff".

Danielle Spendiff, Chief
Western Region
Tidal Wetlands Division



STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WATER QUALITY CERTIFICATION



20-WQC-0045

EFFECTIVE DATE: **August 12, 2020**
EXPIRATION DATE: **August 11, 2023**
CERTIFICATION HOLDER: **Anne Arundel County Dept of Public Works**

ADDRESS: **2662 Riva Rd**
Annapolis, Maryland 21401
PROJECT LOCATION: **1202 Triton Beach Rd**
Edgewater, MD 21037

UNDER AUTHORITY OF SECTION 401 OF THE FEDERAL WATER POLLUTION CONTROL ACT AND ITS AMENDMENTS AND IN ACCORDANCE WITH §9-313 THROUGH §9-323, INCLUSIVE, OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND, THE WATER AND SCIENCE ADMINISTRATION (“ADMINISTRATION”) HAS DETERMINED THAT THE REGULATED ACTIVITY DESCRIBED IN STATE TIDAL WETLANDS LICENSE NUMBER 19-WL-1027 (“LICENSE”) WILL NOT VIOLATE MARYLAND’S WATER QUALITY STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE CONDITIONS OF THIS CERTIFICATION AND WITH ALL TERMS AND CONDITIONS OF THE LICENSE. A COPY OF THE LICENSE, INCLUDING APPROVED PROJECT DRAWINGS AND OTHER ATTACHMENTS, IS ATTACHED HERETO AND IS HEREBY INCORPORATED BY REFERENCE.

THIS CERTIFICATION DOES NOT RELIEVE THE APPLICANT OF RESPONSIBILITY FOR OBTAINING ANY OTHER APPROVALS, LICENSES, OR PERMITS IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS AND DOES NOT AUTHORIZE COMMENCEMENT OF THE PROPOSED PROJECT. A COPY OF THIS REQUIRED CERTIFICATION HAS BEEN SENT TO THE CORPS OF ENGINEERS.

THE CERTIFICATION HOLDER SHALL COMPLY WITH THE CONDITIONS LISTED BELOW.

SPECIAL CONDITIONS

- A. The terms and conditions of Tidal Wetlands License No. 19-WL-1027 are hereby incorporated, by reference, into this Water Quality Certification. The Certification Holder shall comply with these conditions to ensure that the authorized activities will not result in a violation of the State's water quality standards.

GENERAL CONDITIONS

- A. The proposed project shall be constructed in a manner which will not violate Maryland's Water Quality Standards as set forth in COMAR 26.08.02. The applicant is to notify this Department ten (10) days prior to commencing work. Verbal notification is to be followed by written notice within ten (10) days.
- B. The Maryland Department of the Environment has determined that the proposed activities comply with, and will be conducted in a manner consistent with the State's Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended.
- C. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by e-mail at MDE.MCLB@maryland.gov or by accessing the Maryland Department of the Environment, Environmental Boards webpage.
- D. The Certification Holder shall ensure the proposed project shall be constructed in accordance with the authorized plan and any authorized revisions.
- E. The Certification Holder shall ensure that all fill and construction materials not used in the project shall be removed and disposed of in a manner which will prevent their entry into waters of this State.
- F. The Certification Holder shall notify the Water and Science Administration, Tidal Wetlands Division, in writing, upon transferring property ownership or responsibility for compliance with these conditions to another person. The new owner/operator shall request, in writing, transfer of this Water Quality Certification to his/her name.
- G. The Certification Holder shall allow representatives of the Maryland Department of the Environment to inspect the authorized activities.
- H. The Certification Holder shall ensure that a copy of this Permit, including the approved plans, is available at the site until the authorized work is complete.
- I. The Certification does not relieve the Certification holder from the responsibility of obtaining all necessary federal, State, and local government authorizations.
- J. The Certification Holder shall comply with all Critical Area requirements and obtain all necessary authorizations from local jurisdiction. This Certification does not constitute authorization for disturbance in the 100-foot Critical Area Buffer. "Disturbance" in the Buffer means clearing, grading, construction activities, or removal of any size of tree or vegetation. Any anticipated Buffer disturbance requires prior written approval, before commencement of land disturbing activity, from local jurisdiction in the form of a Buffer Management Plan.

Failure to comply with these conditions shall constitute reason for suspension or revocation of the Water Quality Certification, and legal proceedings may be instituted against the Certification Holder in accordance with the Annotated Code of Maryland. In granting this certification, the Department reserves the right to inspect the operations and records regarding this project at anytime

CERTIFICATION APPROVED



D. Lee Currey, Director
Water and Science Administration

9/14/2020

Date

Tracking Number: 201961706
Agency Interest Number: 127736

Effective Date: August 12, 2020

Enclosure: Executed Tidal Wetlands License No. 19-WL-1027 with all plans and attachments.

cc: WMA Inspection & Compliance Program



William Morgante, PWS
Wetlands Administrator

State of Maryland
Board of Public Works
Wetlands Administration
Post Office Box 1510 Annapolis, Maryland 21404
410-260-7791

Larry Hogan
Governor

Nancy K. Kopp
Treasurer

Peter Franchot
Comptroller

John T. Gontrum, Esq.
Executive Secretary

WETLANDS LICENSE NO. 19-1027

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

The Maryland Board of Public Works authorizes you to:

- I. REACHES 1 AND 2 – Extend the length of 16 existing breakwaters within a maximum of 261 feet channelward of the mean high water line.
- II. REACH 3 – Construct a 202-foot long by 25-foot wide (average) sand containment breakwater; and to fill, grade, and plant 0.075 acre, each, of high and low marsh vegetation along 219 feet of eroding shoreline with 550 cubic yards of sand within a maximum of 110 feet channelward of the mean high water line.
- III. REACH 6 – Remove an existing 130-foot long by 10-foot wide dilapidated concrete groin and replace with a 243-foot long by 30-foot wide curved sand containment groin; and to fill, grade, and plant 0.144 acre of high marsh vegetation along 224 feet of eroding shoreline with 1,275 cubic yards of sand within a maximum of 257 feet channelward of the mean high water line.

Chesapeake Bay at 1202 Triton Beach Road, Edgewater, Anne Arundel County, Maryland

Issuance of this Tidal Wetlands License constitutes the State's determination that the authorized activities are consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended [16 U.S.C. §1456]. Accordingly, the State concurs with the Licensee's certification in the Joint Permit Application that the project complies with and will be conducted in a manner consistent with the Maryland CZMP.

**THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF YOU
COMPLY WITH THE FOLLOWING SPECIAL CONDITION(S):**

- A. Licensee shall construct the marsh establishment area in accordance with the following conditions:
 - a. Licensee shall use clean substrate fill material, no more than 10% of which shall pass through a standard number 100 sieve.
 - b. The marsh establishment area shall be planted within one year following completion of the filling operation.

- c. The marsh establishment project shall be maintained as a wetland, with non-nuisance species aerial coverage of at least 85% for three consecutive years. If 85% coverage is not attained, the reasons for failure shall be determined, corrective measures shall be taken, and the area shall be replanted.
 - d. If the fill is graded hydraulically, Licensee shall use a turbidity curtain around the perimeter of the instream work.
 - e. If the existing bank is to be cleared or graded;
 - i. Licensee shall perform all work under and in accordance with an approved Soil Erosion and Sediment Control Plan from the applicable sediment and erosion control agency; and
 - ii. Licensee shall perform all work under and in accordance with the Critical Area requirements of the local jurisdiction in the form of an approved Buffer Management plan.
- B. Licensee shall accept the terms of the attached marsh maintenance plan by signing and returning the standard plan to Maryland Department of the Environment's (MDE) Compliance Division, Water and Science Administration, prior to commencement of any work authorized under this License. If the Licensee wishes to propose an alternative marsh maintenance plan, the alternative plan must be submitted to and approved by MDE's Tidal Wetlands Division, Water and Science Administration, prior to commencement of any work authorized under this License. Any alternative plan must provide assurances of success that are at least equivalent to those of the standard plan, in terms of the extent of native marsh plant coverage, elimination of invasive species and timeframe for plant establishment.
- C. Licensee shall submit photographs on an annual basis for the first five growing seasons to MDE's Tidal Wetlands Division, Water and Science Administration in order to document the success of the project in terms of the extent of native marsh plant coverage. Photographs shall be taken from at least two directions, as necessary, to fully depict the living shoreline.
- D. Licensee shall obtain a Toxic Material Permit from MDE's Industrial and General Permits Division at 410-537-3619, prior to the application of any herbicide to eradicate *Phragmites*. Toxic materials use permits are required for any homeowner, farmer, local government or other person who wants to control aquatic life in ponds, ditches or waterways by the deliberate use of chemicals.

**THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF
YOU COMPLY WITH THE FOLLOWING STANDARD CONDITIONS:**

1. Licensee shall conduct the authorized work in accordance with the plans and drawings dated March 6, 2020, which are hereby incorporated into this License.
2. Until the authorized work is complete, Licensee shall have available at the site a copy of this License including the plans and drawings.
3. This License constitutes Maryland's authorization to conduct the authorized work under the State Tidal Wetlands Law. This License does not bestow any other federal, State, or local government authorization.

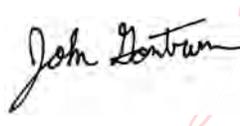
4. Licensee shall have all proposed work above Mean High Water reviewed and authorized by the local county Department of Planning and Zoning or applicable agency.
5. Licensee shall notify MDE's Inspection and Compliance Program by phone (410-537-3510) AND in writing (MDE, Inspection and Compliance Program, 1800 Washington Boulevard, Baltimore, MD 21230) of the following:
 - start date at least five business days before beginning work; and
 - completion date no more than five business days after project completion.
6. If MDE has issued a Water Quality Certification with respect to the authorized work, Licensee shall comply with all conditions of that certification.
7. Licensee shall conduct the authorized work in accordance with Critical Area Commission requirements. This License does not authorize disturbance in the Buffer. If authorized work will disturb the Buffer, Licensee shall have a Commission-approved or locally-approved Buffer Management Plan before beginning the authorized work.

"Buffer" means the 100-foot Critical Area Buffer and any expanded area that is immediately landward of the mean high-water line of the tidal waters or is immediately landward of tidal wetlands. The Buffer includes expanded contiguous area if the contiguous area includes steep slopes, hydric soil, or highly erodible soil, or otherwise meets the criteria of COMAR 27.01.09.01.E(7). "Disturbance" means any alteration or change to the land including any amount of clearing. Clearing includes vegetation removal, grading, and construction activity.
8. Licensee may not fill, dredge, or otherwise alter or destroy tidal marsh or its vegetation unless this License specifically authorizes the activity.
9. Licensee may not stockpile material in State tidal wetlands/State tidal waters of the U.S.
10. Licensee shall allow unfettered public use of State wetlands/State tidal waters of the U.S.
11. This License does not transfer a property interest of the State.
12. Licensee shall file a Miss Utility ticket for the proposed work at least 10 days before beginning work. *Miss Utility: 800-257-7777*
13. Licensee shall ensure that structures (for example, piers and piles) removed from the site are taken to an upland disposal facility approved by MDE's Inspection and Compliance Program.
14. If the authorized work impacts more than 5,000 square feet or includes 100 or more cubic yards of fill, Licensee shall conduct the authorized work in accordance with a locally-approved Soil Erosion and Sediment Control Plan.
15. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. A list of licensed marine contactors may be obtained by contacting the MCLB at 410-537-3249, by email at *MDE.MCLB@maryland.gov* or by accessing the Maryland Department of the Environment, *Environmental Boards* webpage.
16. Licensee shall allow State officials and employees to make inspections at reasonable times and cooperate with those inspections.
17. This License is granted only to the Licensee. Licensee may transfer the license only with written approval from the Board of Public Works. If the Board of Public Works approves the transfer, the transferee is subject to all License terms and conditions.

- 18. Licensee shall indemnify, defend, and save harmless the State of Maryland, its officials, officers, and employees from and against any and all liability, suits, claims, and actions of whatever kind, caused by or arising from, the work this License authorizes.
- 19. The Board of Public Works or its Wetlands Administrator may modify, suspend, or revoke this License in its reasonable discretion.
- 20. This License expires August 12, 2023. If the authorized work is not completed by the expiration date, all activity must stop.

Note: A three-year license may be renewed for one additional three-year term if the Licensee requests an extension before the expiration date and all other conditions are met. A six-year license may not be renewed; instead Licensee must reapply to MDE for a new license. Contact the Board of Public Works to determine if this License may be extended.
Board of Public Works: 410-260-7791

By the authority of the Board of Public Works:

 Digitally signed by
 John T. Gontrum
 Date: 2020.09.03
 09:12:46 -04'00'

John T. Gontrum
 Executive Secretary

Effective Date: August 12, 2020
 Approved as: Secretary’s Agenda Item 2
 Board of Public Works Meeting Date: August 12, 2020

I accept this License and all its conditions.

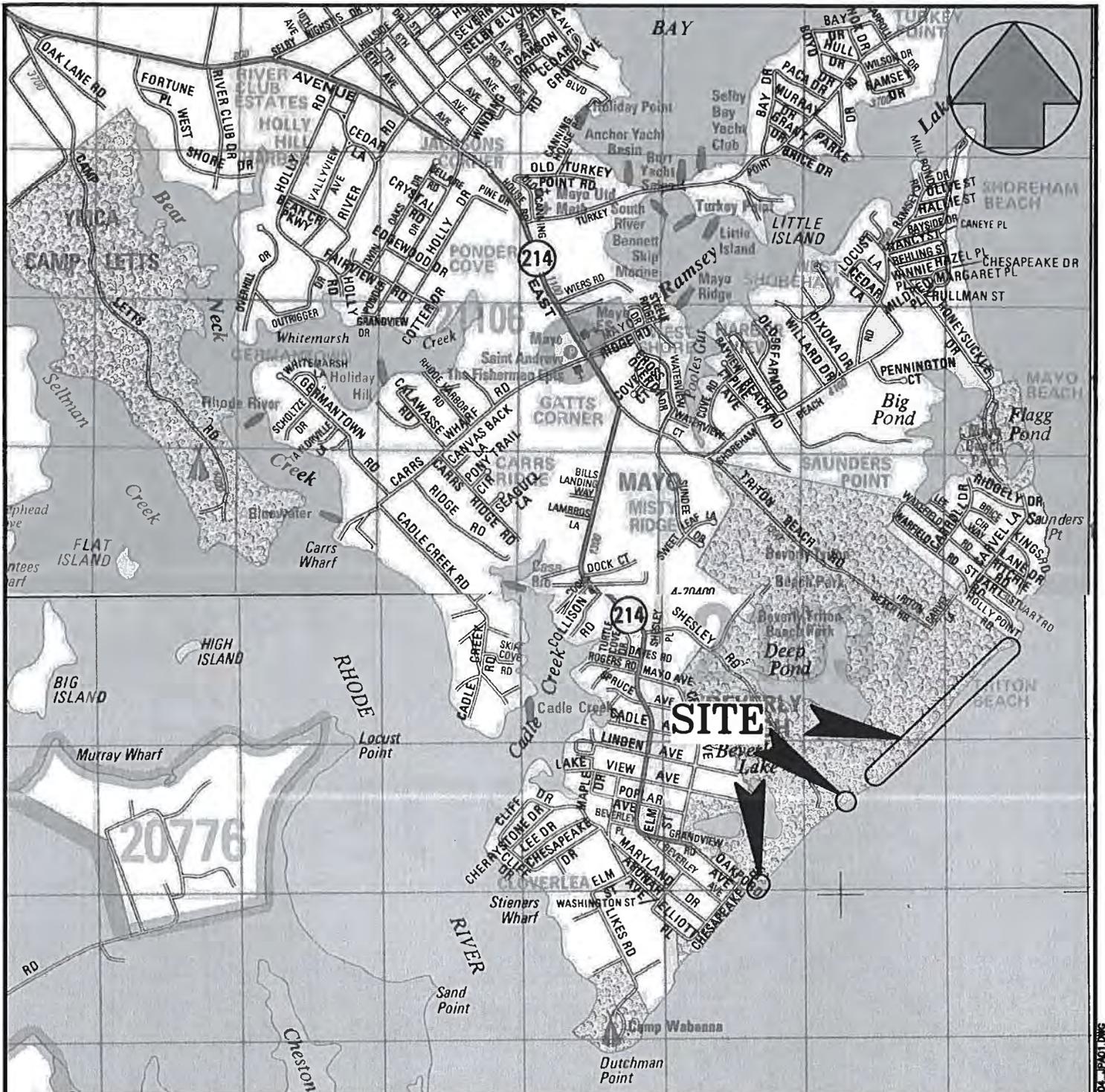
9/3/20
 Date

Melissa Harlinski
 Licensee (Signature)

Melissa Harlinski
 Name (Printed)

Project Manager
 Title

pwharl45@aacounty.org
 Email (to receive completed license)



ANNE ARUNDEL COUNTY ADC MAP COORDINATES:
 PROJECT SITE: MAP 30 GRID 1-J,K; 2-H,J; 3-H

MAP COPYRIGHT KAPPA MAP GROUP LLC, (800) 829-6277
 PERMITTED USE NUMBER S10319e

**BEVERLY TRITON NATURE PARK
 SHORELINE PROTECTION
 ANNE ARUNDEL COUNTY, MD**

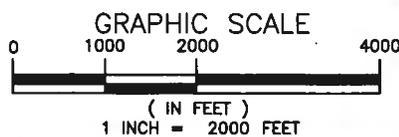


MDE #: 19-WL-1027
AI #: 127736
PLAN DATE: 3/6/20
SHEET 1 OF 11

APPL. BY: ANNE ARUNDEL COUNTY
 DEPARTMENT OF PUBLIC WORKS

VICINITY MAP

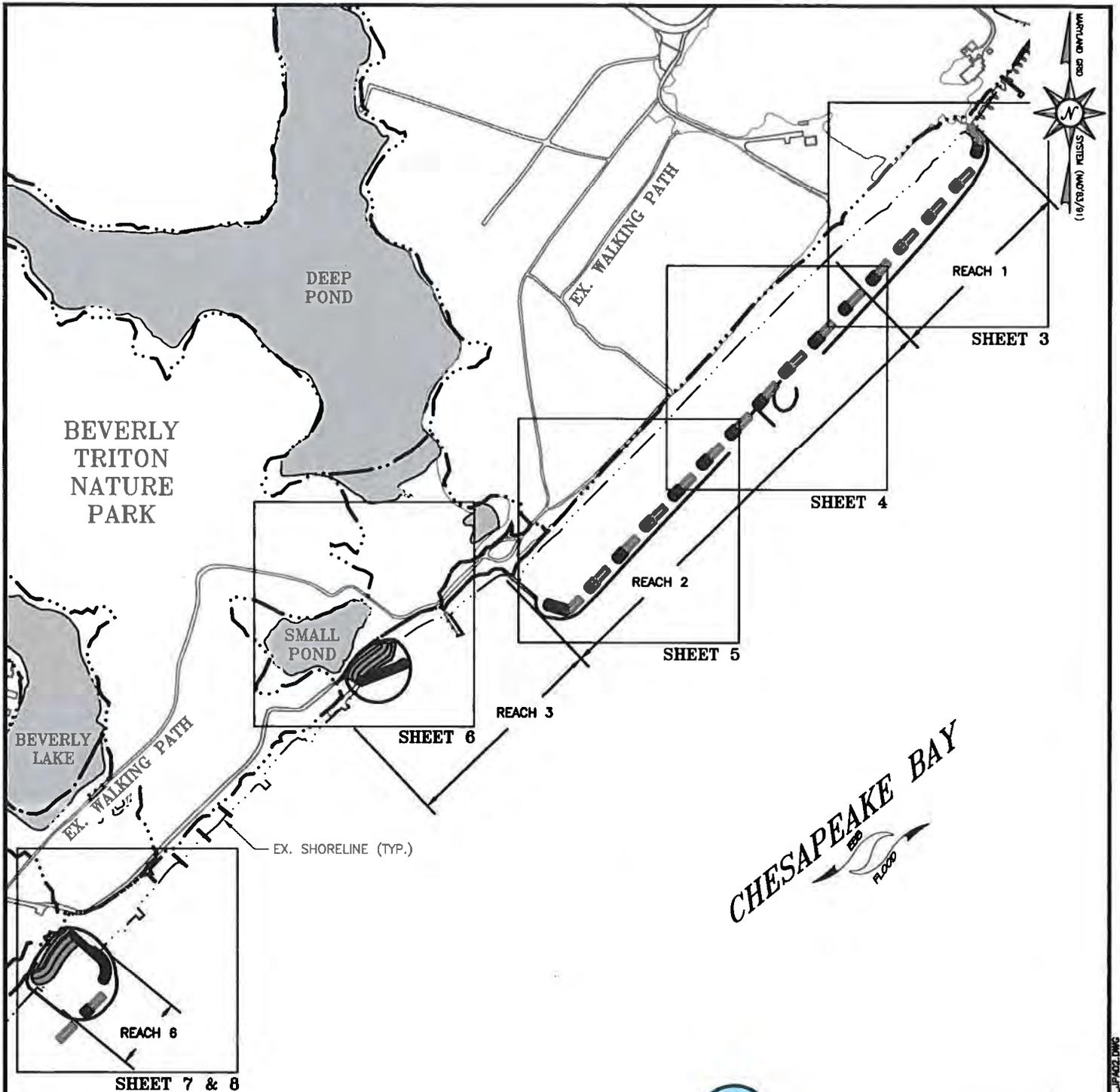
DATE: December 2019 SHEET 1 OF 11



Bayland
 Consultants & Designers, Inc.
 "Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401
 Hanover, Maryland 21076 Fax: (410) 694-9405
 www.baylandinc.com

Z:\16_3004_818P_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\16_3004_818P_01.DWG



**BEVERLY TRITON NATURE PARK
SHORELINE PROTECTION
ANNE ARUNDEL COUNTY, MD**

APPL. BY: ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

KEY SHEET

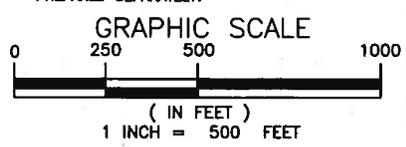
DATE: December 2019 SHEET 2 OF 11



MDE #: 19-WL-1027
AI #: 127736
PLAN DATE: 3/6/20
SHEET 2 OF 11

NOTES:

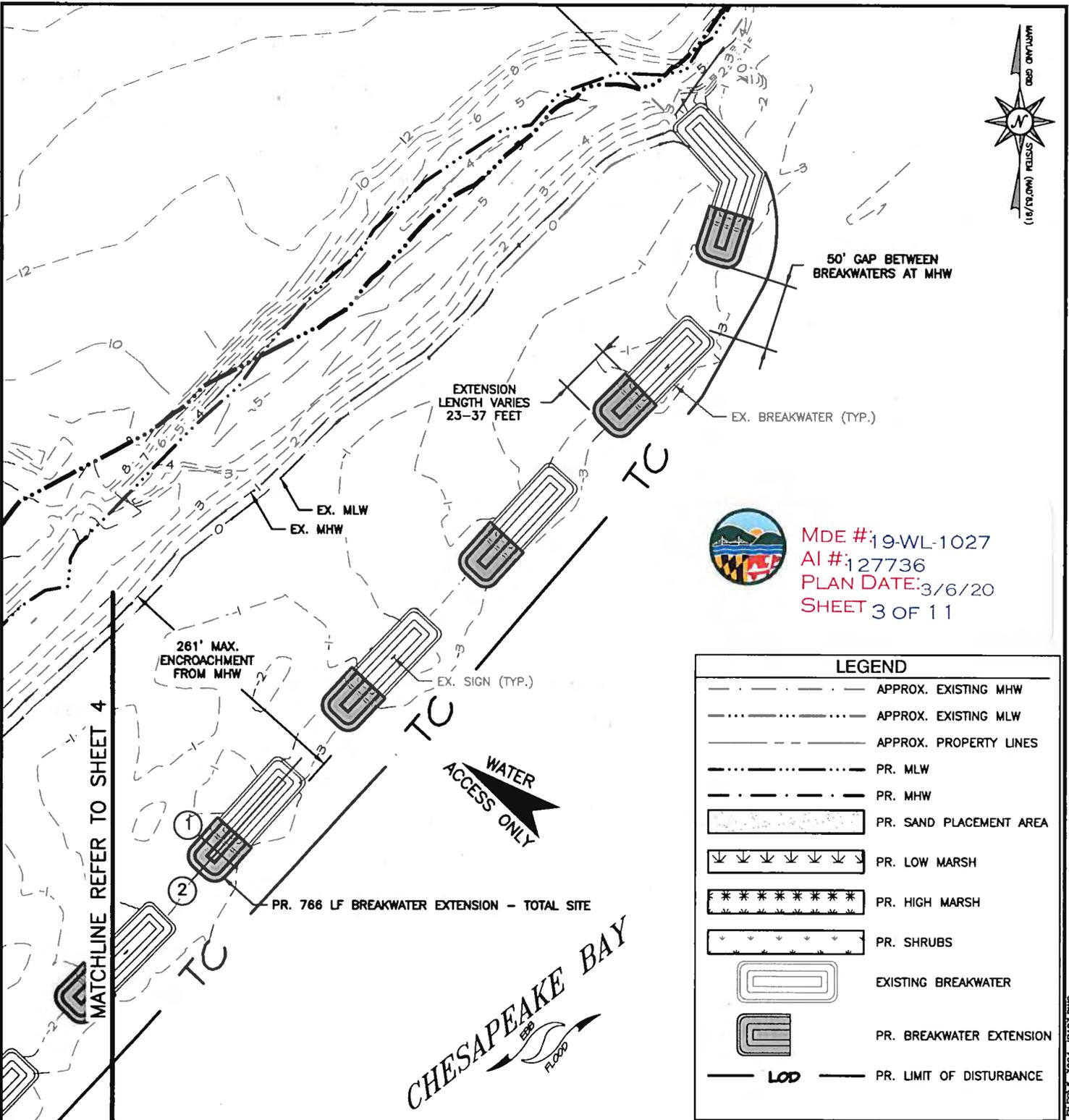
1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2012 PLANIMETRICS AND 2016 IMAGERY.
2. CONTOURS ARE IN FEET AND REFER TO MEAN LOW WATER (MLW).
3. TIDAL RANGE IS 0.87'
4. HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JANUARY 14, 2019 AND FEBRUARY 13 & 18, 2019.
5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.



Bayland
Consultants & Designers, Inc.
"Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401
Hanover, Maryland 21076 Fax: (410) 694-9405
www.baylandinc.com

Z:\3_0000_0100P_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\3_0000_0100P2.DWG



MDE #: 19-WL-1027
 AI #: 127736
 PLAN DATE: 3/6/20
 SHEET 3 OF 11

LEGEND	
	APPROX. EXISTING MHW
	APPROX. EXISTING MLW
	APPROX. PROPERTY LINES
	PR. MLW
	PR. MHW
	PR. SAND PLACEMENT AREA
	PR. LOW MARSH
	PR. HIGH MARSH
	PR. SHRUBS
	EXISTING BREAKWATER
	PR. BREAKWATER EXTENSION
	PR. LIMIT OF DISTURBANCE

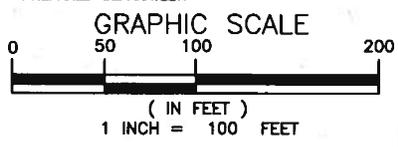
**BEVERLY TRITON NATURE PARK
 SHORELINE PROTECTION
 ANNE ARUNDEL COUNTY, MD**

APPL. BY: ANNE ARUNDEL COUNTY
 DEPARTMENT OF PUBLIC WORKS

SITE PLAN

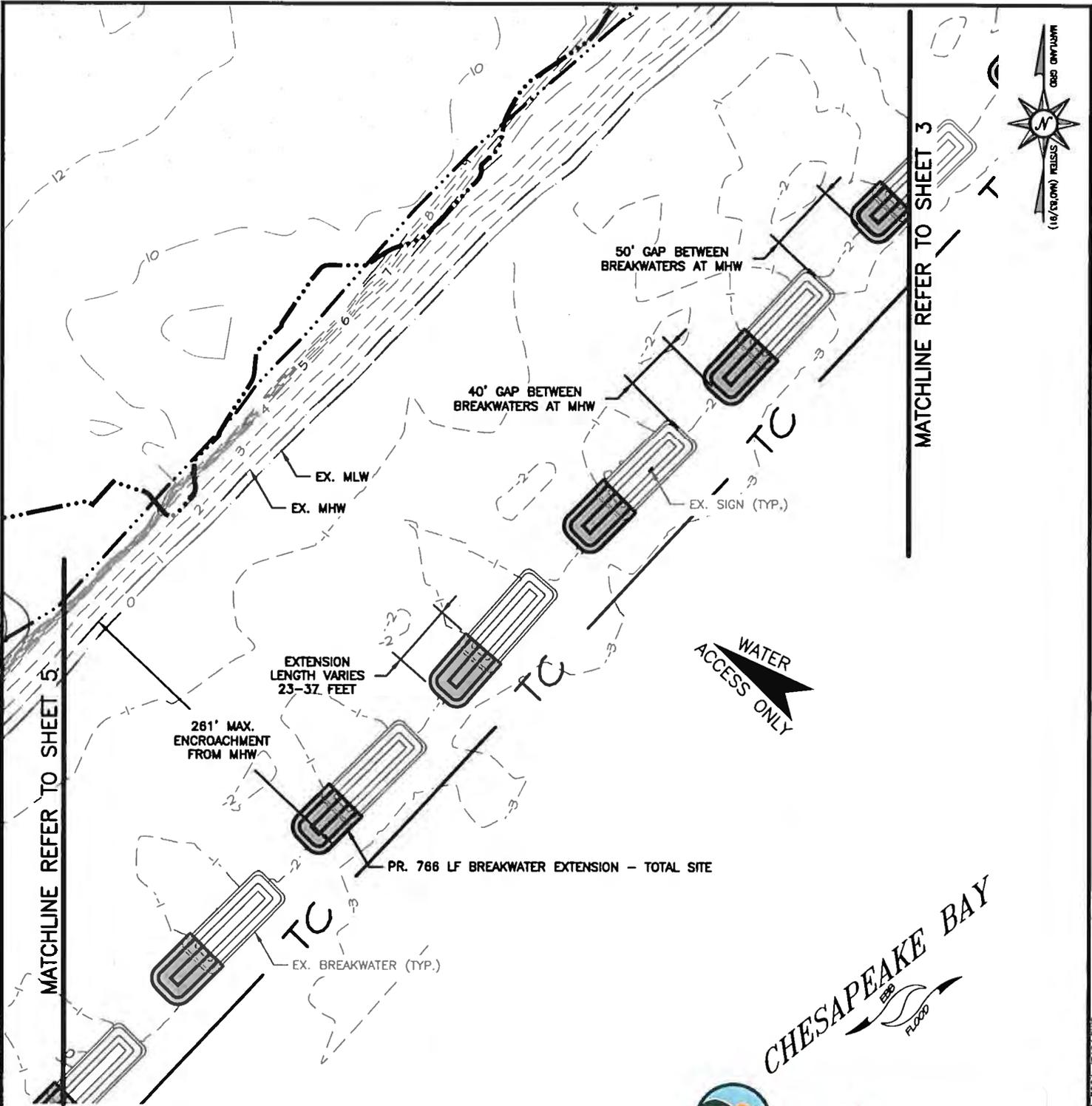
DATE: December 2019 SHEET 3 OF 11

- NOTES:**
1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2012 PLANIMETRICS AND 2016 IMAGERY.
 2. CONTOURS ARE IN FEET AND REFER TO MEAN LOW WATER (MLW).
 3. TIDAL RANGE IS 0.87'.
 4. HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JANUARY 14, 2019 AND FEBRUARY 13 & 18, 2019.
 5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.



Bayland Consultants & Designers, Inc.
"Integrating Engineering and Environment"
 7455 New Ridge Road, Suite T Phone: (410) 694-9401
 Hanover, Maryland 21076 Fax: (410) 694-9405
 www.baylandinc.com

Z:\5_3004_BTRP_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\3_3004_BTRP3.DWG



**BEVERLY TRITON NATURE PARK
SHORELINE PROTECTION
ANNE ARUNDEL COUNTY, MD**

**APPL. BY: ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

SITE PLAN

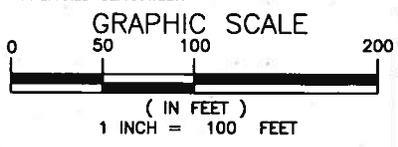
DATE: December 2019 SHEET 4 OF 11

CHESAPEAKE BAY
EBB
FLOOD



**MDE # 9-WL-1027
AI #: 27736
PLAN DATE: 3/6/20
SHEET 4 OF 11**

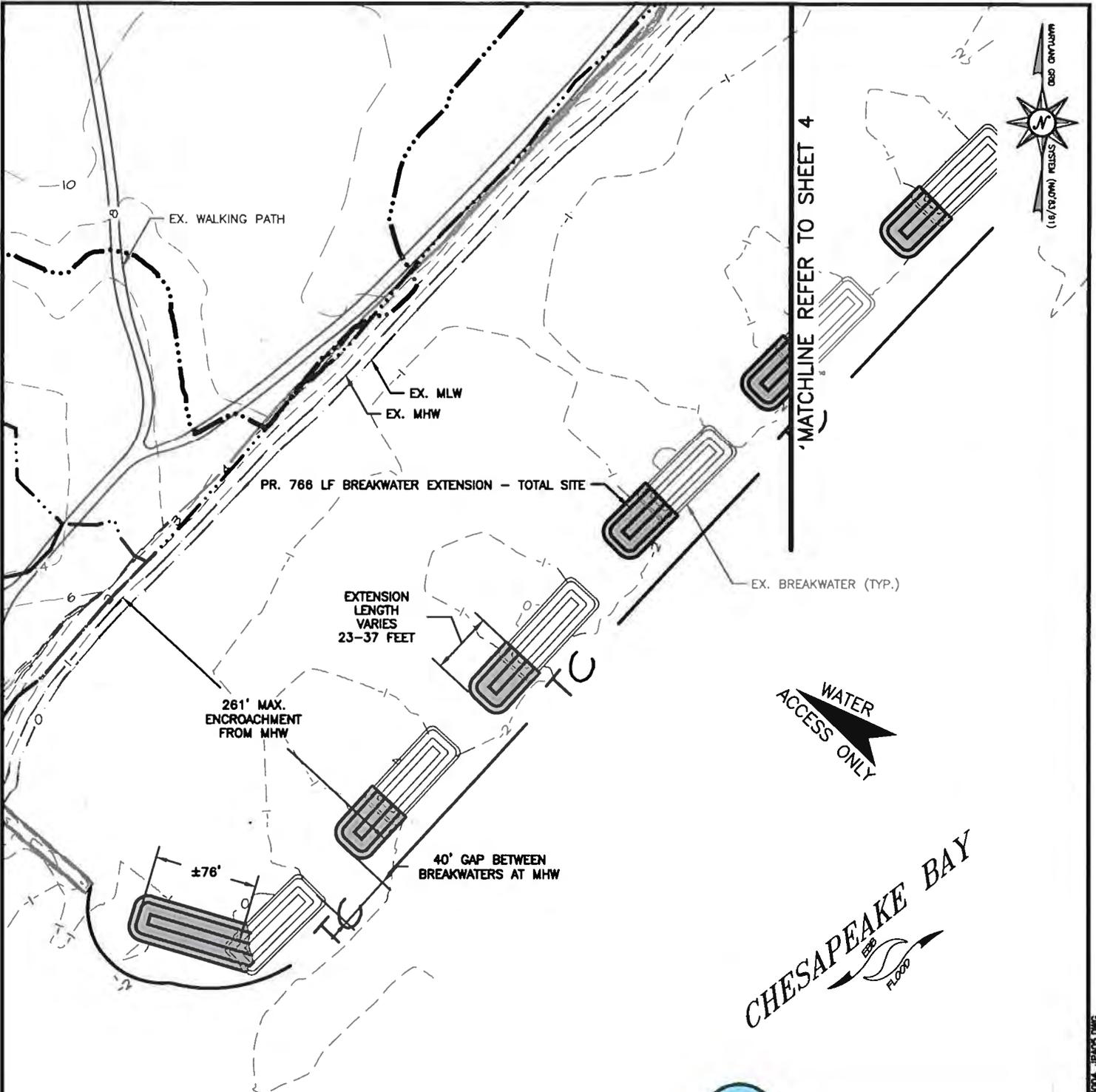
- NOTES:**
1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2012 PLANIMETRICS AND 2016 IMAGERY.
 2. CONTOURS ARE IN FEET AND REFER TO MEAN LOW WATER (MLW).
 3. TIDAL RANGE IS 0.97'
 4. HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JANUARY 14, 2019 AND FEBRUARY 13 & 18, 2019.
 5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.



Bayland Consultants & Designers, Inc.
"Integrating Engineering and Environment"

1455 New Ridge Road, Suite T Phone: (410) 694-9481
Hanover, Maryland 21076 Fax: (410) 694-9485
www.baylandinc.com

Z:\5_2004_010P_SHORELINE_PROTECTION\CAD_FILES\SHEET_FILES\5_2004_010A.DWG



**BEVERLY TRITON NATURE PARK
SHORELINE PROTECTION
ANNE ARUNDEL COUNTY, MD**

**APPL. BY: ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

SITE PLAN

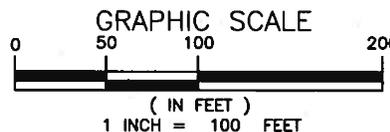
DATE: December 2019 SHEET 5 OF 11



**MDE #: 19-WL-1027
AI #: 127736
PLAN DATE: 3/6/20
SHEET 5 OF 11**

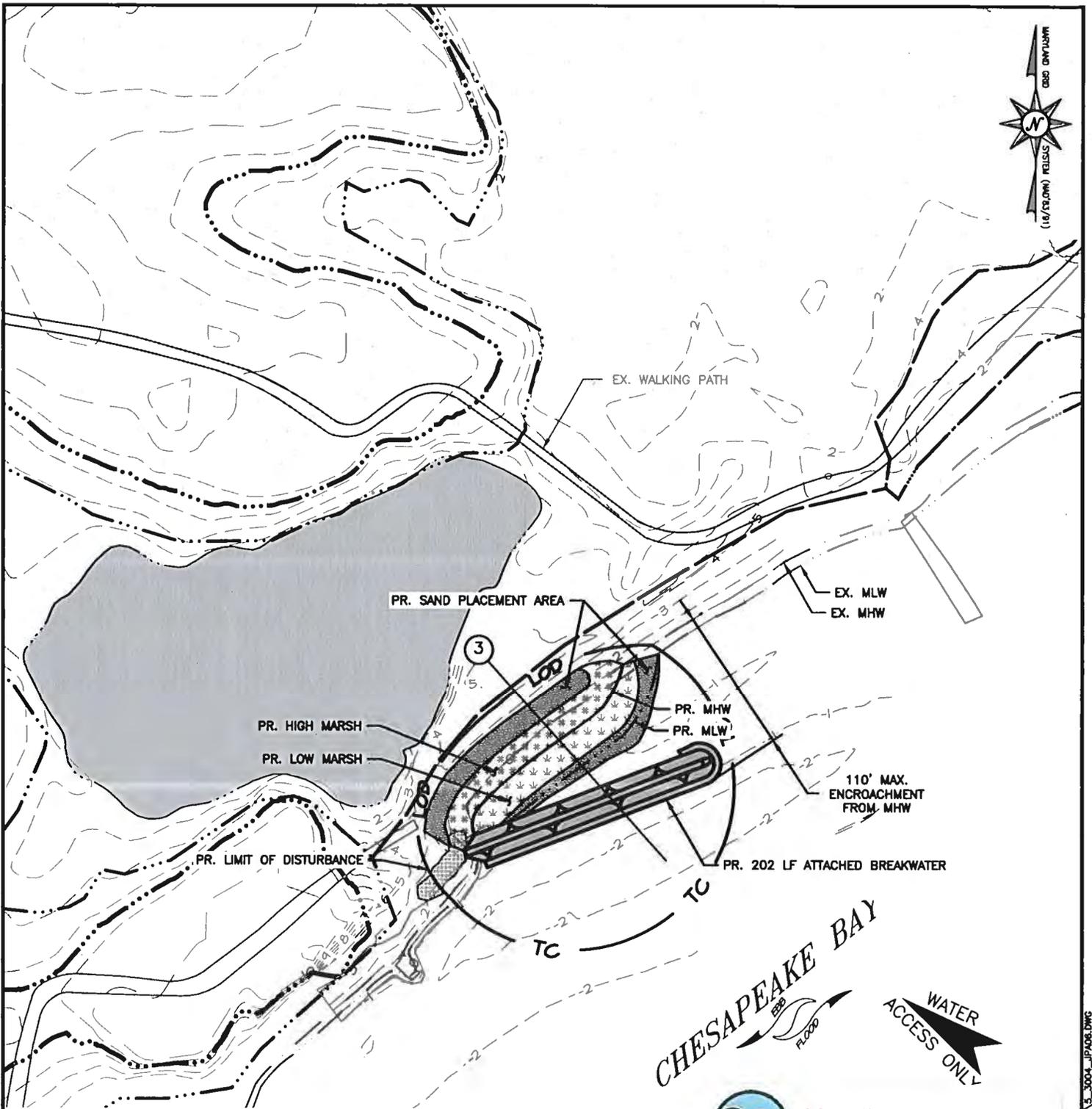
NOTES:

1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2012 PLANIMETRICS AND 2016 IMAGERY.
2. CONTOURS ARE IN FEET AND REFER TO MEAN LOW WATER (MLW).
3. TIDAL RANGE IS 0.97'.
4. HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JANUARY 14, 2019 AND FEBRUARY 13 & 18, 2019.
5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.



Bayland Consultants & Designers, Inc.
"Integrating Engineering and Environment"
 7455 New Ridge Road, Suite T Phone: (410) 694-9401
 Hanover, Maryland 21076 Fax: (410) 694-9405
 www.baylandinc.com

Z:\5_3004_LTRP_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\5_3004_LTRP05.DWG



**BEVERLY TRITON NATURE PARK
SHORELINE PROTECTION
ANNE ARUNDEL COUNTY, MD**

APPL. BY: ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

SITE PLAN

DATE: December 2019 SHEET 6 OF 11

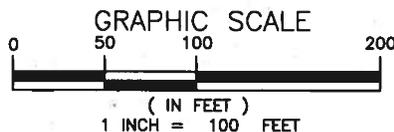
CHESAPEAKE BAY
FLOOD
WATER ACCESS ONLY



MDE #: 19-WL-1027
AI #: 127736
PLAN DATE: 3/6/20
SHEET 6 OF 11

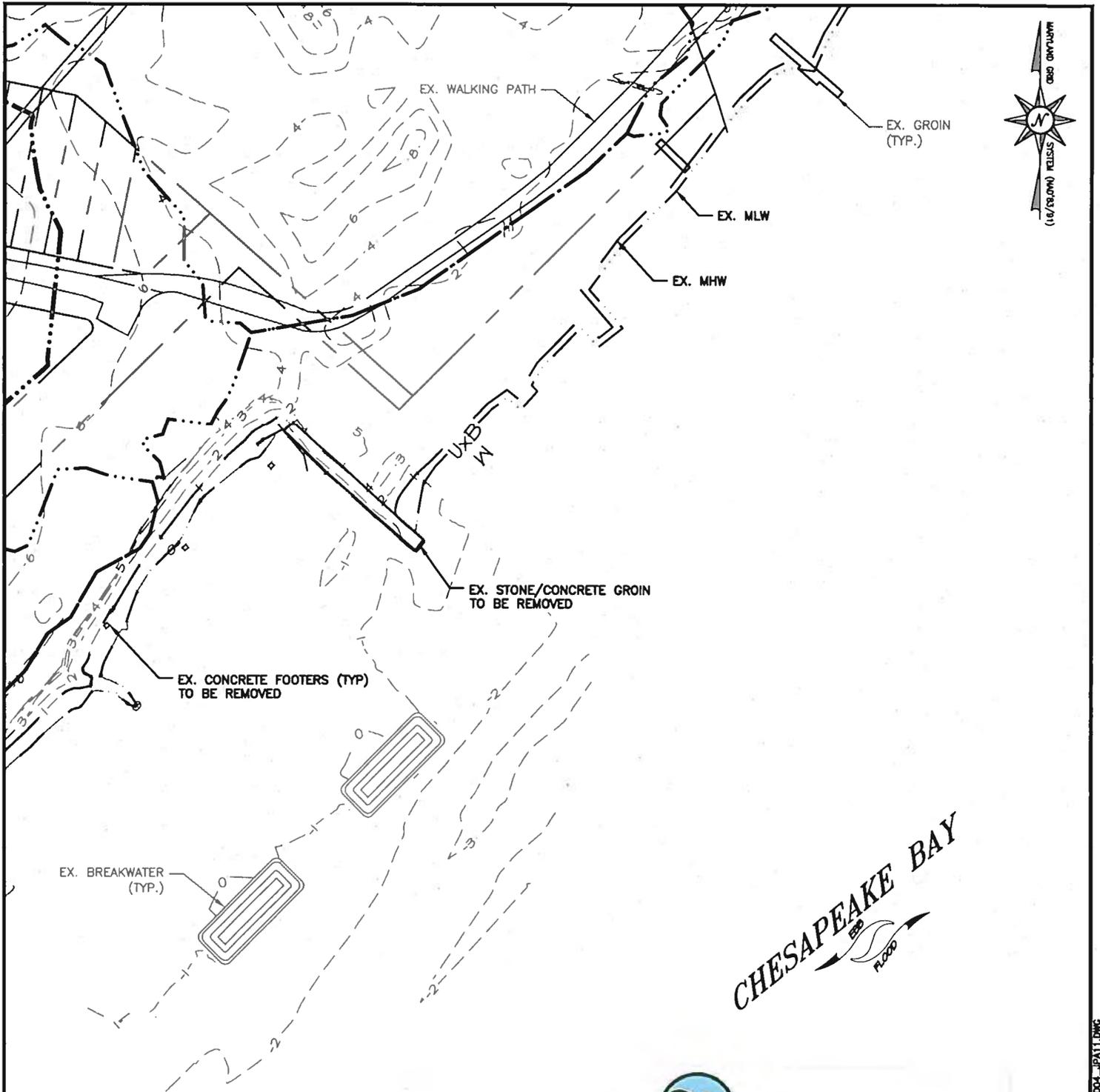
NOTES:

1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2012 PLANIMETRICS AND 2016 IMAGERY.
2. CONTOURS ARE IN FEET AND REFER TO MEAN LOW WATER (MLW).
3. TIDAL RANGE IS 0.97'.
4. HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JANUARY 14, 2019 AND FEBRUARY 13 & 18, 2019.
5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.



Bayland Consultants & Designers, Inc.
"Integrating Engineering and Environment"
7455 New Ridge Road, Suite T Phone: (410) 694-9481
Hanover, Maryland 21076 Fax: (410) 694-9485
www.baylandinc.com

Z:\B_3004_BTRP_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\3_0004_01P06.DWG



CHESAPEAKE BAY

 FLOOD



MDE # 19-WL-1027
 AI #: 127736
 PLAN DATE: 3/6/20
 SHEET 7 OF 11

**BEVERLY TRITON NATURE PARK
 SHORELINE PROTECTION
 ANNE ARUNDEL COUNTY, MD**

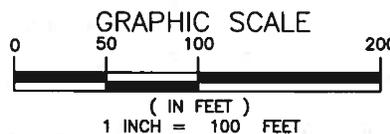
APPL. BY: ANNE ARUNDEL COUNTY
 DEPARTMENT OF PUBLIC WORKS

EXISTING CONDITIONS

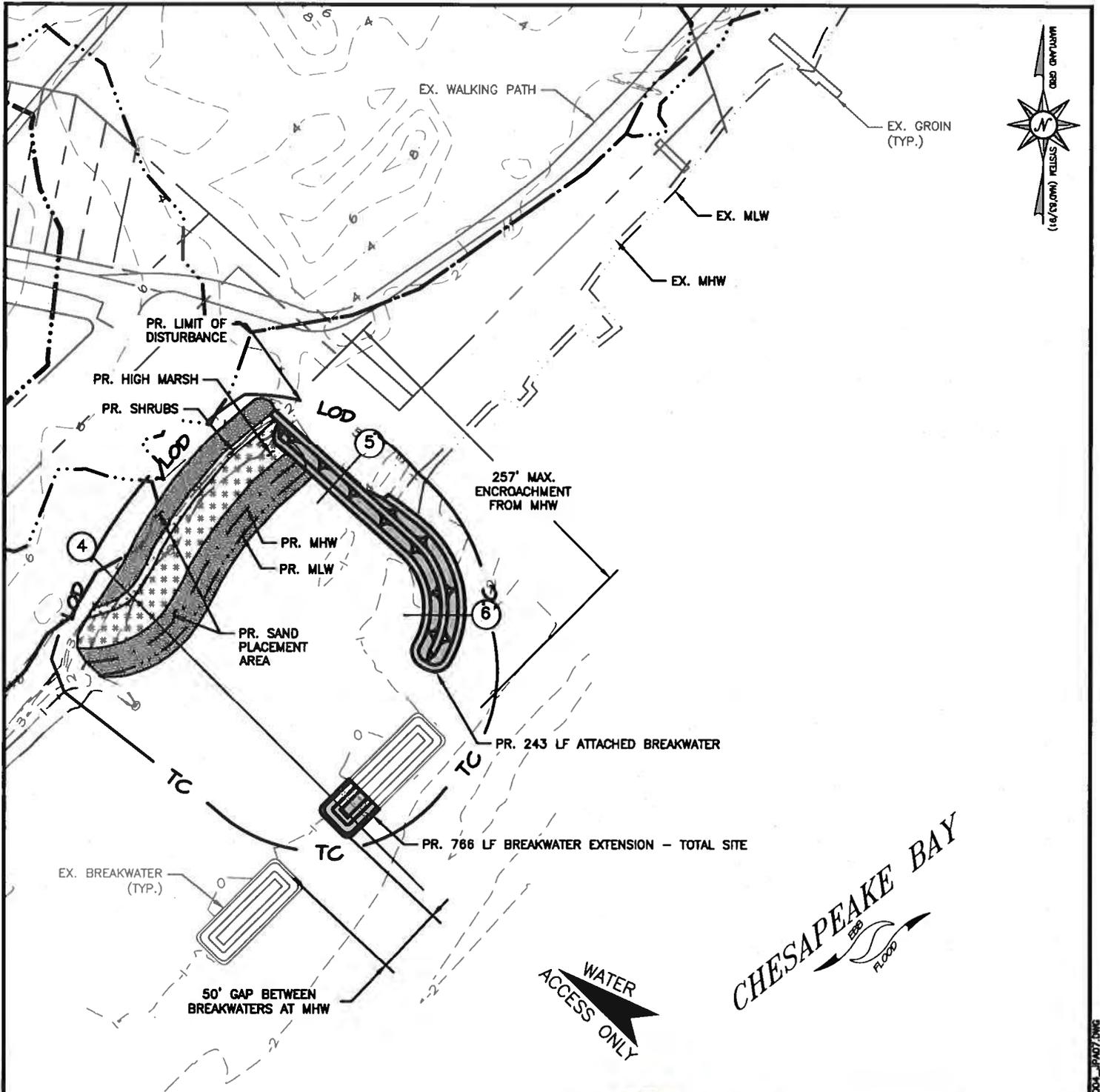
DATE: December 2019 SHEET 7 OF 11

NOTES:

1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2012 PLANIMETRICS AND 2016 IMAGERY.
2. CONTOURS ARE IN FEET AND REFER TO MEAN LOW WATER (MLW).
3. TIDAL RANGE IS 0.07'.
4. HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JANUARY 14, 2019 AND FEBRUARY 13 & 18, 2019.
5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.



Bayland Consultants & Designers, Inc.
"Integrating Engineering and Environment"
 7455 New Ridge Road, Suite T Phone: (410) 694-9481
 Hanover, Maryland 21076 Fax: (410) 694-9485
 www.baylandinc.com



**BEVERLY TRITON NATURE PARK
SHORELINE PROTECTION
ANNE ARUNDEL COUNTY, MD**

APPL. BY: ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

SITE PLAN

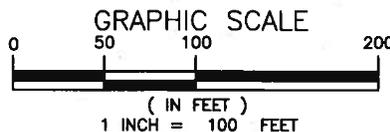
DATE: December 2019 SHEET 8 OF 11



MDE #19-WL-1027
AI #127736
PLAN DATE: 3/6/20
SHEET 8 OF 11

NOTES:

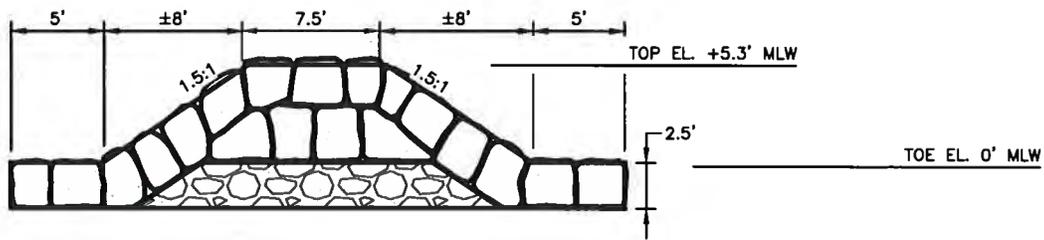
1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2012 PLANIMETRICS AND 2016 IMAGERY.
2. CONTOURS ARE IN FEET AND REFER TO MEAN LOW WATER (MLW).
3. TIDAL RANGE IS 0.97'.
4. HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JANUARY 14, 2019 AND FEBRUARY 13 & 18, 2019.
5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.



Bayland Consultants & Designers, Inc.
"Integrating Engineering and Environment"

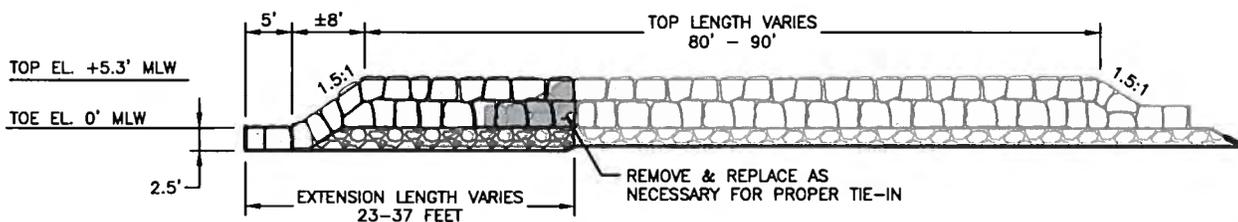
7455 New Ridge Road, Suite T Phone: (410) 694-9481
Hanover, Maryland 21076 Fax: (410) 694-9485
www.baylandoc.com

Z:\A_3004_BTRP_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\A_3004_19A07.DWG



BREAKWATER EXTENSION SECTION 1

SCALE: 1" = 10'
SEE NOTE 1



BREAKWATER SECTION 2

SCALE: 1" = 20'



MDE #19-WL-1027
AI #: 127736
PLAN DATE: 3/6/20
SHEET 9 OF 11

BEVERLY TRITON NATURE PARK
SHORELINE PROTECTION
ANNE ARUNDEL COUNTY, MD

APPL. BY: ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

TYPICAL BREAKWATER DETAILS

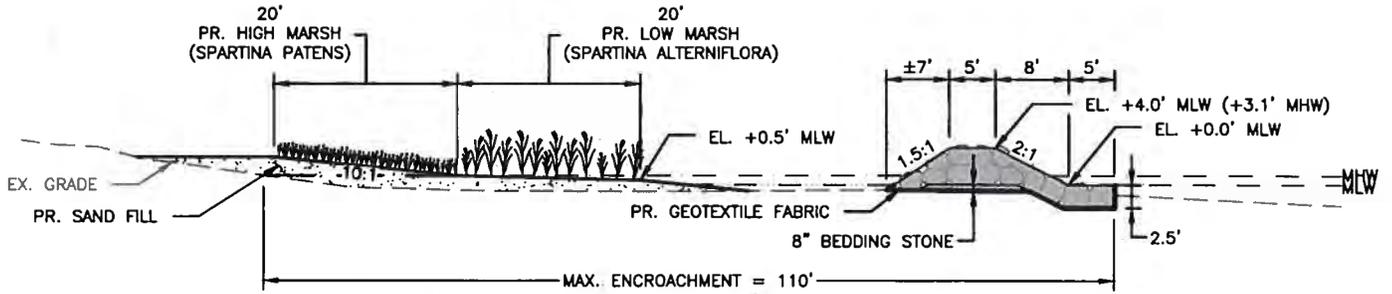
DATE: December 2019 SHEET 9 OF 11

- NOTES:
1. TYPICAL BREAKWATER EXTENSION SECTION REPRESENTS PROPOSED BREAKWATER EXTENSIONS ONLY.

Consultants & Designers, Inc.
"Integrating Engineering and Environment"

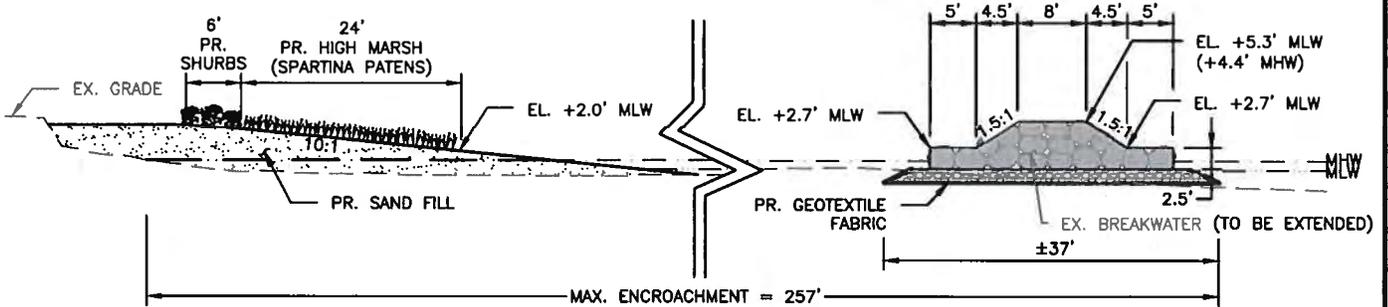
7455 New Ridge Road, Suite T Phone: (410) 694-9481
Hanover, Maryland 21076 Fax: (410) 694-9485
www.baylandinc.com

Z:\15_3004_BTRP_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\15_3004_19A08.DWG



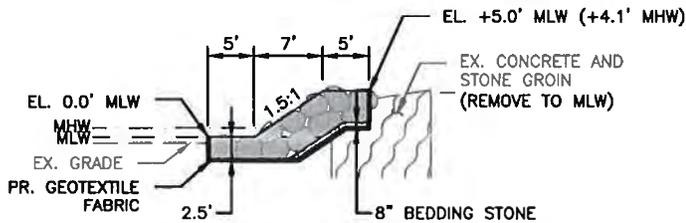
REACH 3 - ATTACHED BREAKWATER & LIVING SHORELINE SECTION 3

SCALE: 1" = 20'



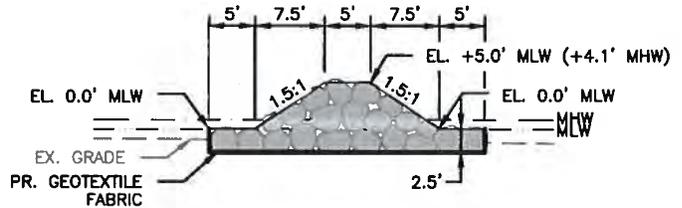
REACH 6 - BREAKWATER EXTENSION & LIVING SHORELINE SECTION 4

SCALE: 1" = 20'



REACH 6 - ATTACHED BREAKWATER SECTION 5

SCALE: 1" = 20'



REACH 6 - ATTACHED BREAKWATER SECTION 6

SCALE: 1" = 20'



MDE #: 19-WL-1027
 AI #: 127736
 PLAN DATE: 3/6/20
 SHEET 10 OF 11

BEVERLY TRITON NATURE PARK
 SHORELINE PROTECTION
 ANNE ARUNDEL COUNTY, MD

APPL. BY: ANNE ARUNDEL COUNTY
 DEPARTMENT OF PUBLIC WORKS

BREAKWATER & LIVING SHORELINE DETAILS

DATE: December 2019 SHEET 10 OF 11

Boydland
 Consultants & Designers, Inc.
 "Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401
 Hanover, Maryland 21076 Fax: (410) 694-9405
 www.boydland.com

Z:\S_3004_LITB_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\S_3004_JPA09.DWG

PROJECT SUMMARY

PROPOSED STRUCTURES:

REACHES ONE & TWO:

STONE BREAKWATER EXTENSIONS (16) -
TOTAL LENGTH - 733 LF
WIDTH - 31 FT
TOTAL AREA - 22,610 SF
MAX. ENCROACHMENT FROM MHW - 261 FT

REACH THREE:

ATTACHED STONE BREAKWATER -
TOTAL LENGTH - 202 LF
WIDTH - 31 FT
TOTAL AREA - 5,095 SF
MAX. ENCROACHMENT FROM MHW - 110 FT
SAND FILL - 550 CY
TOTAL LENGTH - 219 LF
AVERAGE WIDTH - 71 FT
TOTAL AREA - 11,722 SF
MAX. ENCROACHMENT FROM MHW - 55 FT
MARSH PLANTINGS - 6,400 SF

REACH SIX:

STONE BREAKWATER EXTENSION (1) -
TOTAL LENGTH - 33 LF
WIDTH - 31 FT
TOTAL AREA - 993 SF
MAX. ENCROACHMENT FROM MHW - 257 FT
ATTACHED STONE BREAKWATER -
TOTAL LENGTH - 243 LF
WIDTH - 30 FT
TOTAL AREA - 6,437 SF
MAX. ENCROACHMENT FROM MHW - 228 FT
SAND FILL - 1,275 CY
TOTAL LENGTH - 224 LF
AVERAGE WIDTH - 72 FT
TOTAL AREA - 14,805 SF
MAX. ENCROACHMENT FROM MHW - 61 FT
MARSH PLANTINGS - 5,079 SF
SHRUB PLANTINGS - 1,183 SF

IMPACT SUMMARY

TOTAL PROPOSED IMPACT = 60,780 SF (1.40 ACRES)
TOTAL AREA OF IMPACT FROM MHW INTO TIDAL WATERS: 55,496 SF (1.27 ACRES)
TOTAL AREA OF IMPACT TO PRIVATE TIDAL WETLANDS: 0 SF

NOTES

1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2012 PLANIMETRICS AND 2016 IMAGERY.
2. CONTOURS ARE IN FEET AND REFER TO MEAN LOW WATER (MLW).
3. TIDAL RANGE 0.97 FEET.
4. HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JANUARY 14, 2019 AND FEBRUARY 13 & 18, 2019.
5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.



MDE #: 19-WL-1027
AI #: 127736
PLAN DATE: 3/6/20
SHEET 11 OF 11

BEVERLY TRITON NATURE PARK
SHORELINE PROTECTION
ANNE ARUNDEL COUNTY, MD

APPL. BY: ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

SITE NOTES

DATE: December 2019 SHEET 11 OF 11


Bayland
Consultants & Designers, Inc.
"Integrating Engineering and Environment"
7455 New Ridge Road, Suite T Phone: (410) 694-9481
Hanover, Maryland 21076 Fax: (410) 694-9485
www.baylandinc.com

Z:\S_3004_BTB2_SHORELINE_PROTECTION\CAD FILES\SHEET FILES\3004_11.DWG

**BEVERLY TRITON BEACH
ADJACENT PROPERTY OWNERS**

NAME	PROPERTY ADDRESS	CITY	STATE	ZIP CODE	MAILING ADDRESS	CITY	STATE	ZIP CODE
Anne Arundel County	1202 Triton Beach Road	Mayo	MD	21106	Dept. of Rec & Parks PO Box 1831	Annapolis	MD	21404
Robert & Lisa Landstra	4249 Holly Point Road	Edgewater	MD	21037	PO Box 1480	Edgewater	MD	21037
John Hepler & Heather McColl	1583 Stuart Road	Edgewater	MD	21037	3478 South River Terrace	Edgewater	MD	21037
Lawrence & Kim Awad	1579 Stuart Road	Edgewater	MD	21037	1579 Stuart Road	Edgewater	MD	21037
Scott & Susan Taylor	1575 Stuart Road	Edgewater	MD	21037	1575 Stuart Road	Edgewater	MD	21037
Bernard & Margaret Dove	1569 Stuart Road	Edgewater	MD	21037	1569 Stuart Road	Edgewater	MD	21037
Colin & Martha Kelly	1563 Stuart Road	Edgewater	MD	21037	1563 Stuart Road	Edgewater	MD	21037
William & Ann Bell	4257 Carvel Lane	Edgewater	MD	21037	4257 Carvel Lane	Edgewater	MD	21037
Marc & Cheryl Bowen	1211 Triton Beach Road	Edgewater	MD	21037	1211 Triton Beach Road	Edgewater	MD	21037
Constance T Jansen	100 Oakford Avenue	Edgewater	MD	21037	100 Oakford Avenue	Edgewater	MD	21037
Christopher & Autumn Perkins	4219 Sweet Leaf Lane	Edgewater	MD	21037	4219 Sweet Leaf Lane	Edgewater	MD	21037
Ashley & Maury Reddinger	4221 Sweet Leaf Lane	Edgewater	MD	21037	4221 Sweet Leaf Lane	Edgewater	MD	21037
Joseph & Lisa Davison	1319 Sundee Drive	Edgewater	MD	21037	1319 Sundee Drive	Edgewater	MD	21037
Todd & Karen Goldstein	1409 Triton Court	Edgewater	MD	21037	1409 Triton Court	Edgewater	MD	21037
Troy & Bridgette Gourley	1411 Triton Court	Edgewater	MD	21037	1411 Triton Court	Edgewater	MD	21037
David Bilger	1413 Triton Court	Edgewater	MD	21037	1413 Triton Court	Edgewater	MD	21037
Jeffrey & Joanne Valencia	1415 Triton Court	Edgewater	MD	21037	1415 Triton Court	Edgewater	MD	21037
James & Barbara Gill	1414 Triton Court	Edgewater	MD	21037	1414 Triton Court	Edgewater	MD	21037
Triton Woods Homeowners Association	8120 Woodmont Avenue Suite 300	Bethesda	MD	20814	8120 Woodmont Avenue Suite 300	Bethesda	MD	20814
Joseph Alexander	1230 Shesley Road	Mayo	MD	21106	1230 Shesley Road	Mayo	MD	21106
John Fegan & Cynthia McCormack	1336 Shesley Road	Edgewater	MD	21037	4018 Cadle Creek Road	Edgewater	MD	21037
Johnathan & Victoria Fitzgerald	1225 Shesley Road	Edgewater	MD	21037	1225 Shesley Road	Edgewater	MD	21037
Timothy & Erin Dabbs	508 Cedar Avenue	Edgewater	MD	21037	508 Cedar Avenue	Edgewater	MD	21037
Chris & Carrie Gallop	122 Linden Avenue	Mayo	MD	21037	122 Linden Avenue	Mayo	MD	21037
Kyle Cannatella & Jessica Hardee	120 Linden Avenue	Edgewater	MD	21037	120 Linden Avenue	Edgewater	MD	21037
Matthew & Krista Sermon	118 Linden Avenue	Edgewater	MD	21037	118 Linden Avenue	Edgewater	MD	21037
Shirley Payne	116 Linden Avenue	Mayo	MD	21037	PO Box 83	Mayo	MD	21037
Stanley Hajkowski	114 Linden Avenue	Edgewater	MD	21037	114 Linden Avenue	Edgewater	MD	21037
James & Jane Stewart	112 Linden Avenue	Edgewater	MD	21037	5423 High Tor Hill	Columbia	MD	21045
Scott Logan & Jung Kim	110 Linden Avenue	Edgewater	MD	21037	110 Linden Avenue	Edgewater	MD	21037
Louise Schelin	99 Linden Avenue	Edgewater	MD	21037	PO Box 154	Mayo	MD	21106
Patricia & Michael Salley	104 Lakeview Avenue	Edgewater	MD	21037	104 Lakeview Avenue	Edgewater	MD	21037

**BEVERLY TRITON BEACH
ADJACENT PROPERTY OWNERS**

NAME	PROPERTY ADDRESS	CITY	STATE	ZIP CODE	MAILING ADDRESS	CITY	STATE	ZIP CODE
Brenden & Angela Foley	102 Lakeview Avenue	Edgewater	MD	21037	102 Lakeview Avenue	Edgewater	MD	21037
Edwin & Jacqueline Lee	100 Lakeview Avenue	Edgewater	MD	21037	100 Lakeview Avenue	Edgewater	MD	21037
Bruce Hellstern	101 Lakeview Avenue	Edgewater	MD	21037	101 Lakeview Avenue	Edgewater	MD	21037
Michael Matti & Mary Matera	108 Oakford Avenue	Mayo	MD	21106	108 Oakford Avenue	Mayo	MD	21106
Jason & Louise Simpson	106 Oakford Avenue	Edgewater	MD	21037	44 McPherson Road	Annapolis	MD	21401
John & Monica Pineau	104 Oakford Avenue	Edgewater	MD	21037	104 Oakford Avenue	Edgewater	MD	21037
Kenneth & Veronica Sharpe	102 Oakford Avenue	Edgewater	MD	21037	102 Oakford Avenue	Edgewater	MD	21037
Ellen Brous	107 Elliott Place	Edgewater	MD	21037	107 Elliott Place	Edgewater	MD	21037
William Choate	122 Likes Road	Mayo	MD	21037	PO Box 185	Mayo	MD	21106
Mayo Civic Association	PO Box 23	Mayo	MD	21106	PO Box 23	Mayo	MD	21106
Beverly Beach Community Association	310 Poplar Avenue	Edgewater	MD	21037	310 Poplar Avenue	Edgewater	MD	21037
Holly Hill Harbor Civic Association	PO Box 997	Edgewater	MD	21037	PO Box 997	Edgewater	MD	21037
Saunders Point Citizens Association	n+A1	Mayo	MD	21106	PO Box 275	Mayo	MD	21106
AACO Department of Public Works	2662 Riva Road	Annapolis	MD	21403	2662 Riva Road	Annapolis	MD	21403
BayLand Consultants & Designers, Inc.	7455 New Ridge Road Suite T	Hanover	MD	21076	7455 New Ridge Road Suite T	Hanover	MD	21076