



**Maryland**  
Department of  
the Environment

Wes Moore, Governor  
Aruna Miller, Lt. Governor

Serena McIlwain, Secretary  
Suzanne E. Dorsey, Deputy Secretary

July 10, 2024

Arundel Rivers Federation  
c/o Chris Rager  
Bayland Consultants & Designers, Inc  
7455 New Ridge Road, Ste T  
Hanover, MD 21076

Via email: [crager@baylandinc.com](mailto:crager@baylandinc.com)

Re: Agency Interest Number: 179005  
Tracking Number: 202361059  
Tidal Authorization Number: 24-WQC-0002

Dear Arundel Rivers Federation:

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 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 at with any questions.

Sincerely,

Tammy Roberson, Chief  
Tidal Wetlands Division



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



24-WQC-0002

EFFECTIVE DATE: **July 10, 2024**  
CERTIFICATION HOLDER: **Arundel Rivers Federation**  
ADDRESS: **Attn: Jennifer Carr**  
**PO Box 760**  
**Edgewater, MD 21037**  
PROJECT LOCATION: **Long Point Peninsula**  
**Inside of South River Farm Park**  
**Selby-On-The-Bay, 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 MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER AND SCIENCE ADMINISTRATION HAS DETERMINED THAT THE REGULATED ACTIVITIES DESCRIBED IN THE REQUEST FOR CERTIFICATION FOR THE PROPOSED Long Point Peninsula AND AS DESCRIBED IN THE ATTACHED PLAN SHEETS DATED May 20, 2024 AND ANY SUBSEQUENT MODIFICATIONS APPROVED BY THE DEPARTMENT WILL NOT VIOLATE MARYLAND'S WATER QUALITY STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE CONDITIONS OF THIS CERTIFICATION.**

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.

*The Maryland Department of Environment satisfied the statutory and regulatory public notice requirements by placing the WQC on Public Notice from January 15, 2024 to February 15, 2024 on Maryland Department of the Environment's Public Notice webpage and advertising in the The Capitol Gazette on January 19, 2024.*

## **PROJECT DESCRIPTION**

- I. Construct seven 82-foot long and 6-foot wide low-profile stone and reef ball "habitat sills," a maximum of one-half foot above mean high water, all extending a maximum of 47 feet channelward of the mean high water line at an existing marsh.
- II. Construct two low profile stone sills totaling 440-linear feet by 13.5-foot wide, a maximum of one-half foot above mean high water, all extending a maximum of 117 feet channelward of the mean high water line at an existing marsh.

- III. Construct one 285-foot long and 13.5-foot wide curvilinear low-profile stone sill, a maximum of one-half foot above mean high water, all extending a maximum of 63 feet channelward of the mean high water line at an existing marsh.
- IV. Construct five submerged reef ball sill structures totaling 675 linear feet by 12-foot wide, a maximum of one foot below mean high water all extending a maximum of 245 feet channelward of the mean high water line at an existing marsh.
- V. Construct two approximately 30-foot long by 3-foot wide woody habitat structures, submerged, all extending a maximum of 60 feet channelward of the mean high water line at an existing marsh.

## **GENERAL CONDITIONS**

1. All water quality-related performance standards and conditions required by the Department in any state issued authorization for activities in tidal wetlands, nontidal wetlands, their 100-year floodplains, nontidal wetlands buffers, or nontidal wetland expanded buffers to ensure that any discharges will not result in a failure to comply with water quality standards in COMAR 26.08.02 or any other water quality requirements of state law or regulation shall be met.
2. This Certification does not obviate the need to obtain required authorizations or approvals from other State, federal or local agencies as required by law.
3. All additional authorizations or approvals, including self-certifying General Permits issued by the Department, shall be obtained and all conditions shall be completed in compliance with such authorizations.
4. The proposed project shall be constructed in accordance with the approved final plan by the Department, or, if Department approval is not required, the plan approved by the U.S. Army Corps of Engineers, and its approved revisions.
5. 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.
6. This Certification does not authorize any injury to private property, any invasion of rights, or any infringement of federal, state, or local laws or regulations.
7. Authorized representatives of the Department shall be provided access to the site of authorized activities during normal business hours to conduct inspections and evaluations of the operations and records necessary to assure compliance with this Certification.
8. No stockpiles of any material shall be placed in Waters of the U.S. or state or private tidal wetlands.
9. Temporary construction trailers or structures, staging areas and stockpiles shall not be located within tidal wetlands, nontidal wetlands, nontidal wetlands buffers, or the 100-year floodplain unless specifically included on the Approved Plan.
10. This Certification is valid for the project identified herein and the associated U.S. Army Corps of Engineers NAB-2023-61059, until such time as that federal approval expires or is not administratively extended.

## **SPECIAL CONDITIONS**

1. All Critical Area requirements shall be followed and all necessary authorizations from the Critical Area Commission ("Commission") shall be obtained. This Certificate 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.
2. All work performed under this Water Quality Certificate 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. Licensing by MCLB shall occur prior to the beginning of construction activities. 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.
3. The issuance of this Certificate is not a validation or authorization by the Department for any of the existing structures depicted on the plan sheets on the subject property that is not part of the authorized work description, nor does it relieve the Certificate Holder of the obligation to resolve any existing noncompliant structures and activities within tidal wetlands.
4. Certificate Holder shall not perform any in water construction or work between April 15 through October 15 of any year due to the presence of submerged aquatic vegetation (SAV).
5. The Certificate Holder shall conduct an as-built survey and forward to the Water and Science Administration, Tidal Wetlands Division within 45 days of project completion.
6. The Certificate Holder shall notify the Maryland Department of the Environment, Water and Science Administration, Compliance Program at least 10 days before starting the authorized activities at (410) 537-3510.

## **CITATIONS AND STATEMENTS OF NECESSITY**

1. Statement of Necessity for General Conditions 1, 2, 3, 4, and Special Conditions 1, 3: These conditions are necessary to ensure that water quality standards are met, and designated uses are maintained.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.10G(3); COMAR 26.23.02.06; COMAR 26.17.01; COMAR 26.23; COMAR 26.24

2. Statement of Necessity for General Conditions 5, 8, 9: Fill or construction material within or

adjacent to regulated resources may cause discharges resulting in turbidity in excess of water quality standards and interfere with designated uses of growth and propagation of fish, other aquatic life, wildlife; and other designated uses; and fail to meet general water quality criteria that waters not be polluted by substances in amounts sufficient to be unsightly or create a nuisance.

Citation: 26.08.02.03B(1)-B(2); COMAR 26.23; COMAR 26.24; COMAR 26.17.04

3. Statement of Necessity for General Condition 6, Special Condition 5: This condition is necessary to clarify the scope of this certification to ensure compliance with water quality regulations, without limiting restrictions through other requirements.

Citation: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08, COMAR 26.08.02.10E; COMAR 26.23.02.06; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

4. Statement of Necessity for General Condition 7: Conditions of certification involve precise actions to comply with water quality standards. Site inspection may be necessary to ensure that limits, methods, and other requirements are met to ensure that water quality standards are met and designated uses are maintained. These conditions are necessary to ensure that the activity was conducted, and project completed according to terms of the authorization/certification, while allowing for review of in-field modifications which may have resulted in discharges to ensure that water quality standards were met. Designated uses include support of estuarine and marine aquatic life and shellfish harvesting and for growth and propagation of fish, other aquatic life, and wildlife

Citation: Federal and state laws that authorize this condition include but are not limited to: 33

U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2); COMAR 26.23.02.06; COMAR 26.23; COMAR 26.24; COMAR 26.17.04

5. Statement of Necessity for General Condition 9, 10: This condition is necessary to qualify the period of applicability of the terms and conditions of this Certification to be protective of Maryland water quality standards.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; 40 C.F.R. 121, 15 C.F.R. 930, Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

6. Statement of Necessity for Special Condition 2: Expertise for conducting certain activities is

required to ensure that there is no violation of water quality standards nor interference with designated uses. This condition is necessary to ensure that discharges will be conducted in a manner which does not violate water quality criteria nor interfere with designated uses.

Citation: COMAR 26.08.02.02B(2)- B(4); COMAR 26.08 02.03B(2)(d)-(e ); COMAR 26.08.02.03B(1)(b); 26.08.02.03B(2); COMAR 23.02.04.04

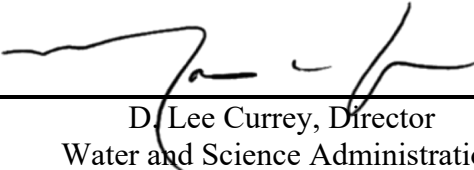
7. Statement of Necessity for Special Condition 4: A time of year restriction is necessary to protect known submerged aquatic vegetation habitat. SAV are a critical habitat for many aquatic species. Limitations on loss will sustain habitat for a variety of aquatic species, including anadromous fish and threatened or endangered species. Water quality regulations state minimum thresholds for SAV in tidal waterways. In addition to direct loss, turbidity created by construction or ongoing operation must be limited for support of aquatic life and meet water quality standards. Unmitigated loss of SAV may result in failure to meet SAV extents which are part of water quality standards, as well as designated use class for support of estuarine and marine aquatic life and shellfish harvesting.

Citations: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.02.B.(3); 26.08.02.02.B.(1)(d); COMAR 26.08.02.03-3C(9); COMAR 26.08.02.03.B.(1)(b); COMAR 26.08.02.03.B.(2)(e); COMAR 26.24

8. Statement of Necessity for Special Condition 6: Loss of fill material may result in violations of water quality due to turbidity and other alterations which interfere with designated uses as well as a designated use class for support of estuarine and marine aquatic life, and support of designated uses for growth and propagation of fish, shallow water submerged vegetation, other aquatic life, and wildlife. Loss limits will maintain the designation use.

Citations: Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.24; COMAR 26.08; COMAR 26.08.02.10G(3); COMAR 26.08.02.06; COMAR 26.17.04; COMAR 26.23; COMAR 26.23.02.06

## CERTIFICATION APPROVED

  
\_\_\_\_\_  
D. Lee Currey, Director  
Water and Science Administration

7/12/2024

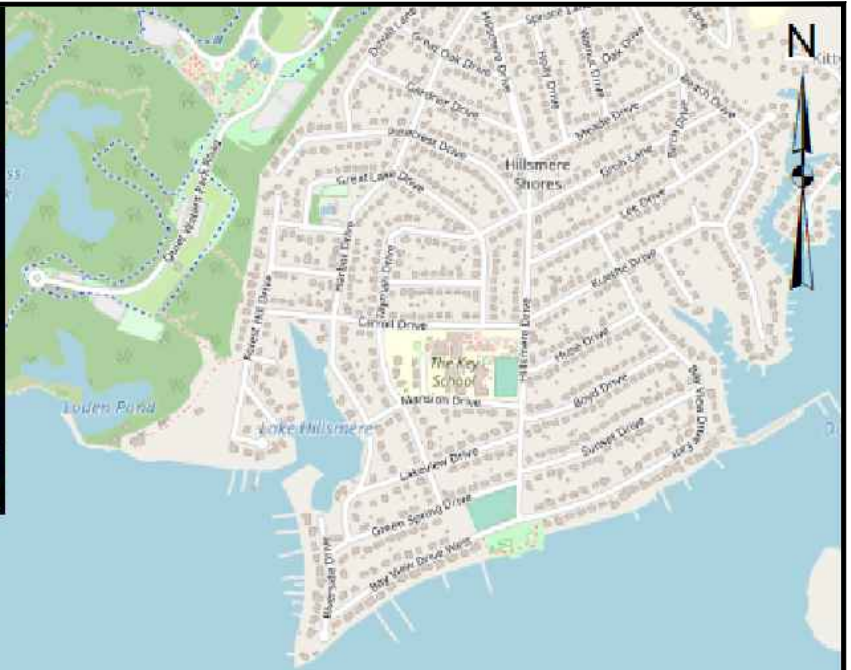
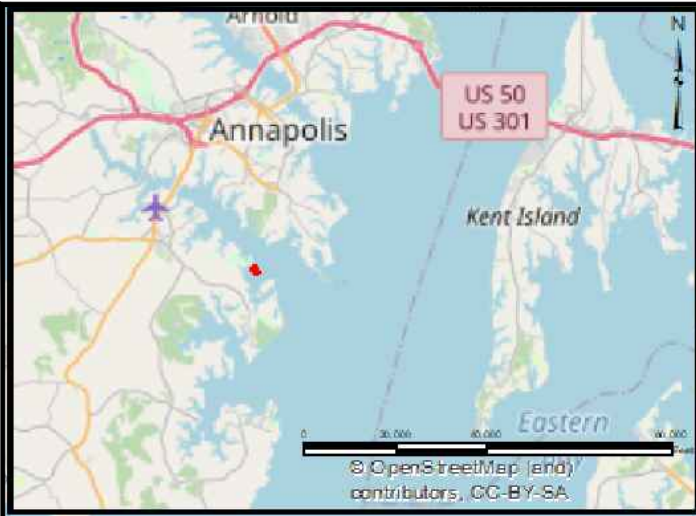
\_\_\_\_\_  
Date

Tracking Number: 202361059  
Agency Interest Number: 179005

Effective Date: July 10, 2024

Enclosure: Plan Sheets dated May 20, 2024

cc: WSA Inspection & Compliance Program  
Army Corps of Engineers



© OPEN STREETMAP (AND) CONTRIBUTORS, CC-BY-SA

**LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD**

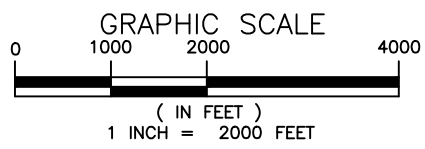
23-WL-0675  
202361059  
5/20/2024  
Sheet 1 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

**VICINITY MAP**

DATE: MAY 2024 SHEET 1 OF 16

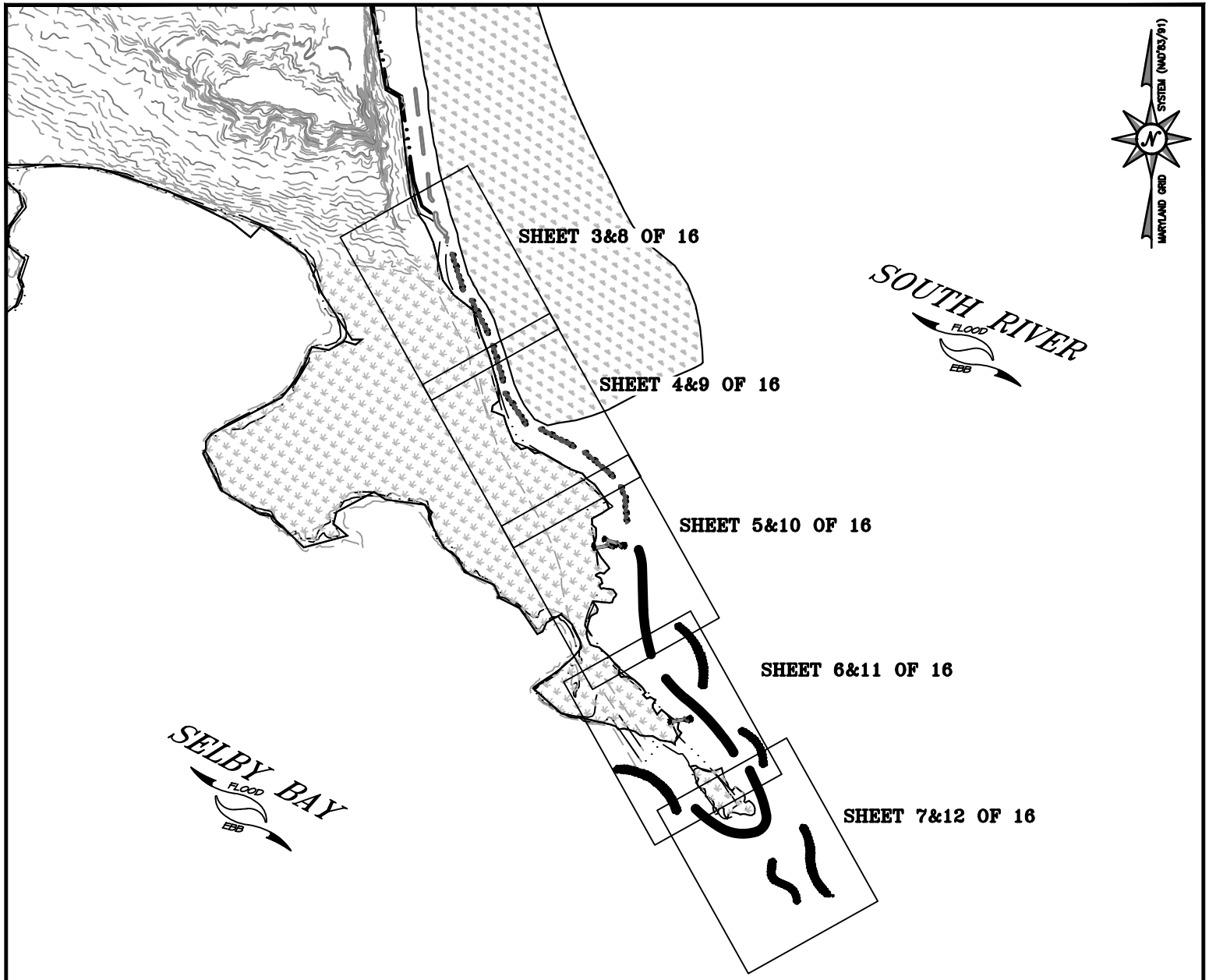
**NOTE:**  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.



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

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\WPA\_B-43901\_JPA01A.DWG



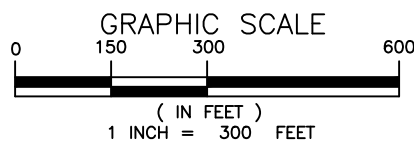
23-WL-0675  
 202361059  
 5/20/2024  
 Sheet 2 of 16

LONG POINT SHORELINE  
 STABILIZATION DESIGN  
 AT  
 SOUTH RIVER FARM PARK  
 ANNE ARUNDEL COUNTY, MD

APPL. BY: ARUNDEL RIVERS FEDERATION

KEY SHEET

DATE: MAY 2024 SHEET 2 OF 16



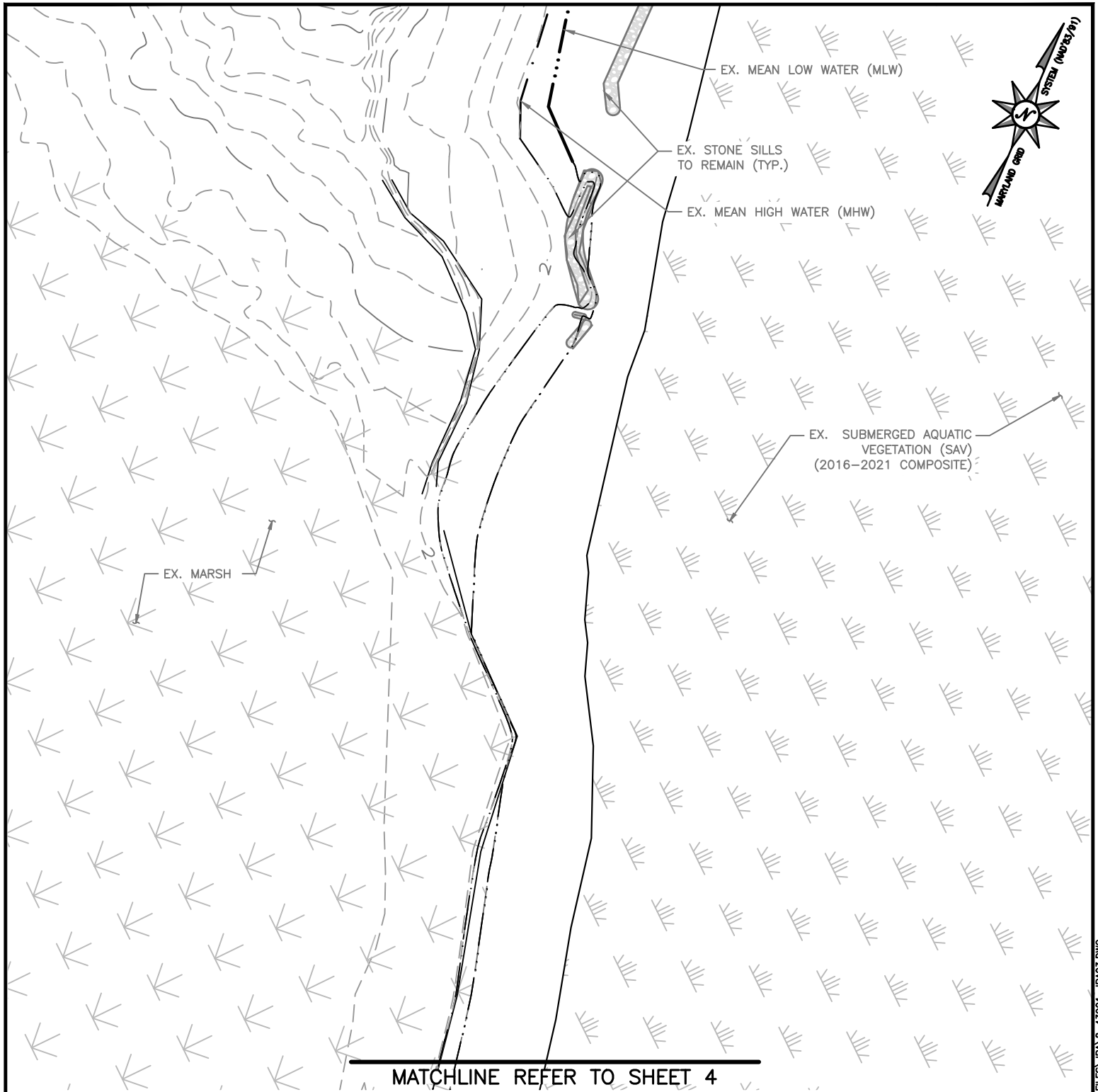
NOTE:  
 BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
 2016 PLANIMETRICS AND 2017 IMAGERY.



7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
 Hanover, Maryland 21076 Fax: (410) 694-9405  
 www.baylandinc.com

Z:\B\_43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD\_FILES\SHEET\_FILES\_VIPA\_B\_43901\_JPA02.DWG





LONG POINT SHORELINE  
 STABILIZATION DESIGN  
 AT  
 SOUTH RIVER FARM PARK  
 ANNE ARUNDEL COUNTY, MD

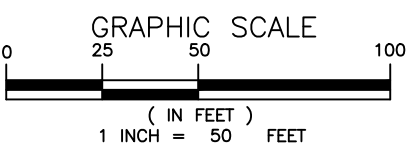
23-WL-0675  
 202361059  
 5/20/2024  
 Sheet 3 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

EXISTING CONDITIONS

DATE: MAY 2024 SHEET 3 OF 16

NOTE:  
 BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
 2016 PLANIMETRICS AND 2017 IMAGERY.



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

7455 New Ridge Road, Suite 1 Hanover, Maryland 21076  
 Phone: (410) 694-9401 Fax: (410) 694-9405  
 www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\IPAO3.DWG

MATCHLINE REFER TO SHEET 3



EX. SUBMERGED AQUATIC VEGETATION (SAV) (2016-2021 COMPOSITE)

EX. MARSH

EX. MEAN LOW WATER (MLW)

EX. MEAN HIGH WATER (MHW)

**SOUTH RIVER**  
FLOOD  
EBP

MATCHLINE REFER TO SHEET 5

**LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD**

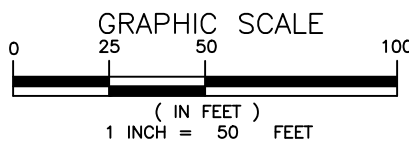
23-WL-0675  
202361059  
5/20/2024  
Sheet 4 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

**EXISTING CONDITIONS**

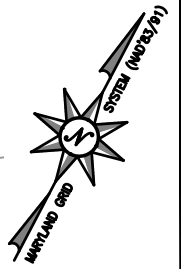
DATE: MAY 2024 SHEET 4 OF 16

**NOTE:**  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.



**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

MATCHLINE REFER TO SHEET 4



EX. MARSH

**SOUTH RIVER**  
FLOOD  
EBB

EX. MEAN HIGH WATER (MHW)

EX. MEAN LOW WATER (MLW)

MATCHLINE REFER TO SHEET 6

**LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD**

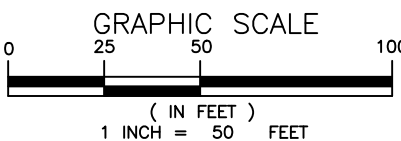
23-WL-0675  
202361059  
5/20/2024  
Sheet 5 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

**EXISTING CONDITIONS**

DATE: MAY 2024 SHEET 5 OF 16

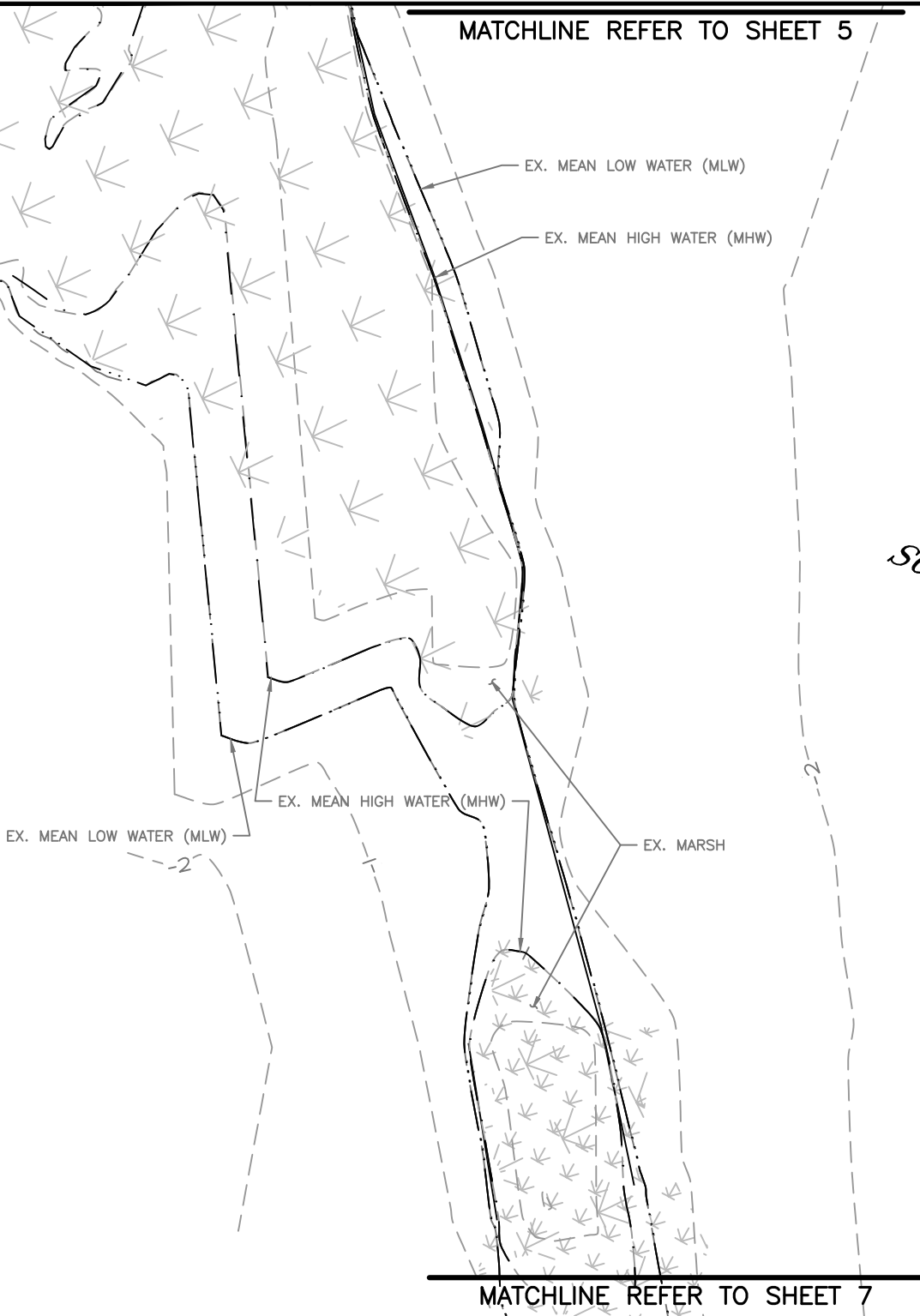
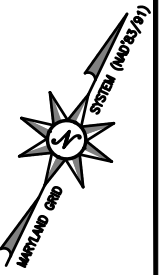
**NOTE:**  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.



**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B\_43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\_VIPA\_B\_43901\_JPA05.DWG

MATCHLINE REFER TO SHEET 5



**SOUTH RIVER**  
FLOOD  
EPP

MATCHLINE REFER TO SHEET 7

**LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD**

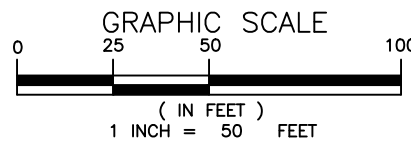
**23-WL-0675  
202361059  
5/20/2024  
Sheet 6 of 16**

APPL. BY: ARUNDEL RIVERS FEDERATION

**EXISTING CONDITIONS**

DATE: MAY 2024 SHEET 6 OF 16

**NOTE:**  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.



**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

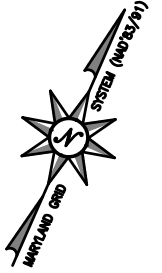
Z:\B\_43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD\_FILES\SHEET\_FILES\IPPA\_B\_43901\_IPA06.DWG

MATCHLINE REFER TO SHEET 6

EX. MEAN HIGH WATER (MHW)

EX. MEAN LOW WATER (MLW)

EX. MARSH



MATCHLINE REFER TO SHEET 8

LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD

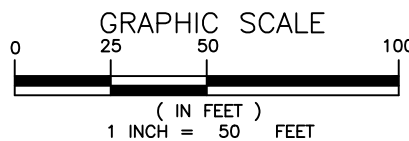
23-WL-0675  
202361059  
5/20/2024  
Sheet 7 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

EXISTING CONDITIONS

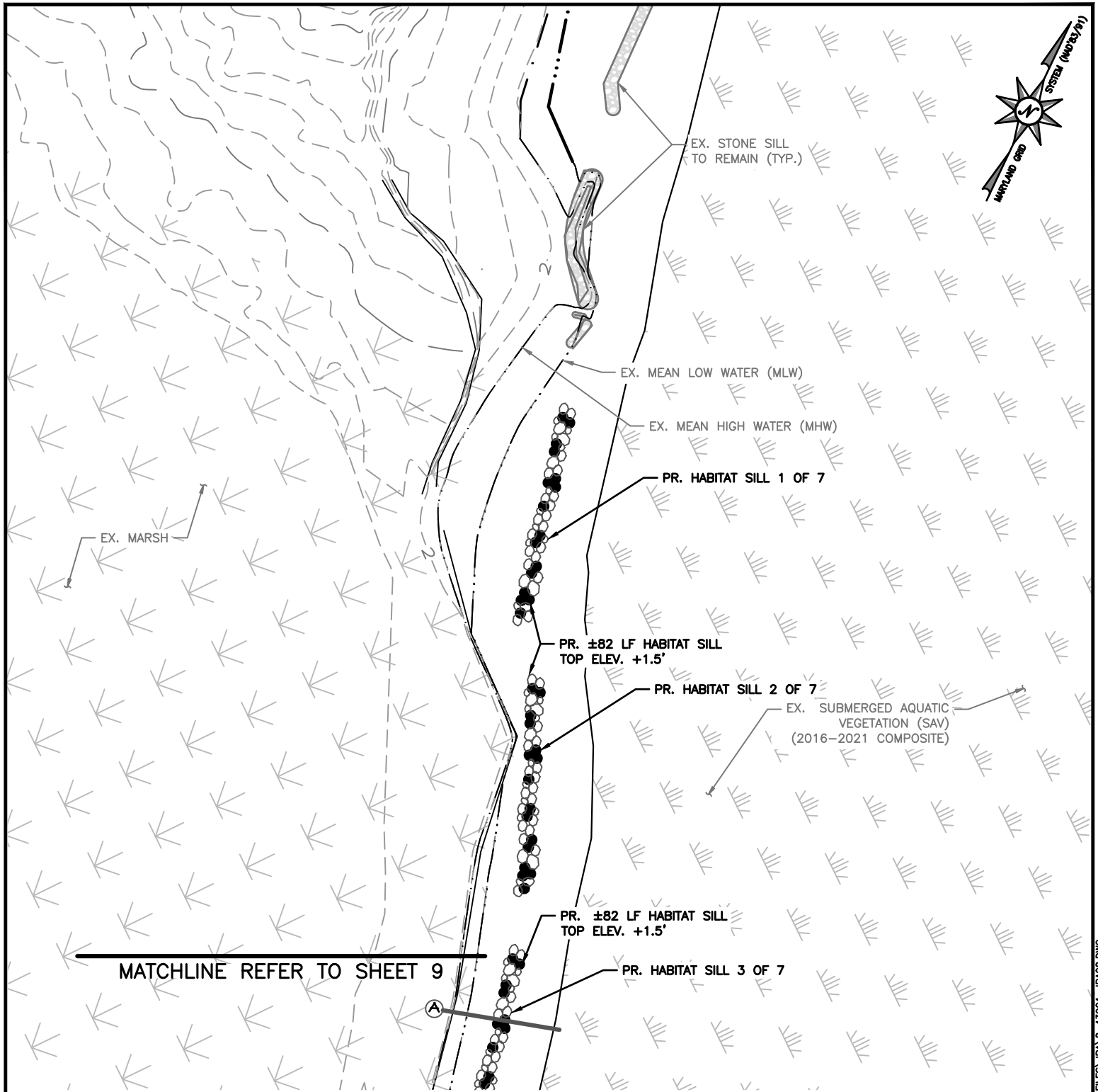
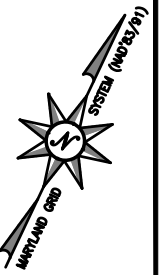
DATE: MAY 2024 SHEET 7 OF 16

NOTE:  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.



**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\IPPA\_B\_43901\_JPA07.DWG



MATCHLINE REFER TO SHEET 9

NOTE: ENTIRE PROJECT SITE FALLS INTO THE AREA DESIGNATED BY MARYLAND DNR TO HAVE A TIME OF YEAR RESTRICTION FOR NO WORK TO BE COMPLETED NOVEMBER 15TH TO MARCH 1ST DUE TO WATERFOWL AS WELL AS APRIL 15TH TO OCTOBER 15TH FOR SAV.

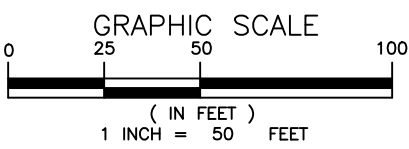
**LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD**

**23-WL-0675  
202361059  
5/20/2024  
Sheet 8 of 16**

APPL. BY: ARUNDEL RIVERS FEDERATION

**SITE PLANS**

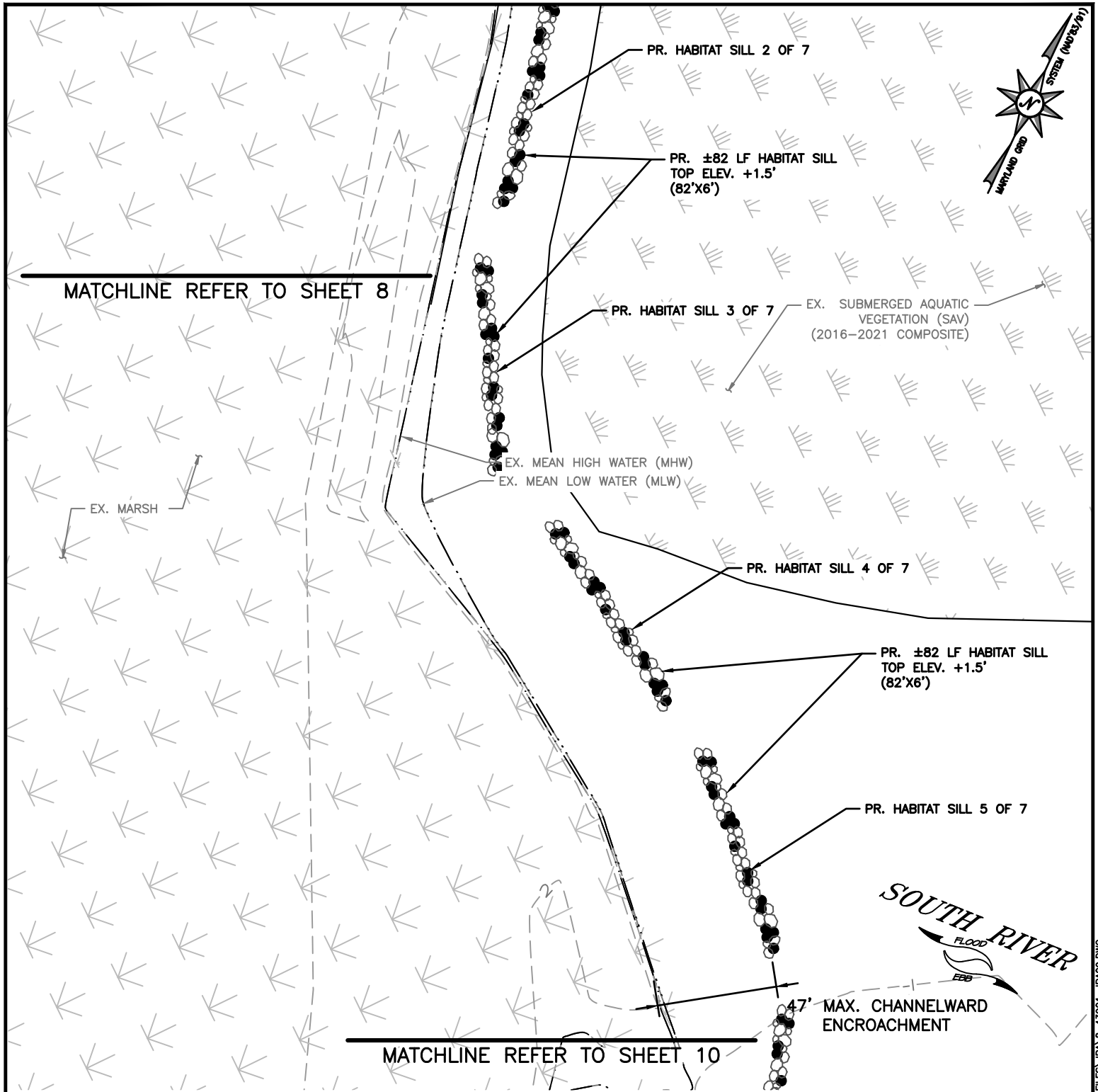
DATE: MAY 2024 SHEET 8 OF 16



NOTE: BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY 2016 PLANIMETRICS AND 2017 IMAGERY.

**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\WPA\_B\_43901\_JPA08.DWG



MATCHLINE REFER TO SHEET 8

MATCHLINE REFER TO SHEET 10

**LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD**

23-WL-0675  
202361059  
5/20/2024  
Sheet 9 of 16

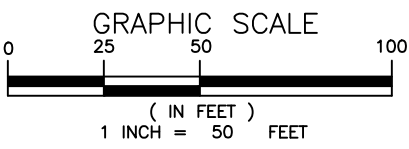
APPL. BY: ARUNDEL RIVERS FEDERATION

**SITE PLANS**

DATE: MAY 2024 SHEET 9 OF 16

NOTE: ENTIRE PROJECT SITE FALLS INTO THE AREA DESIGNATED BY MARYLAND DNR TO HAVE A TIME OF YEAR RESTRICTION FOR NO WORK TO BE COMPLETED NOVEMBER 15TH TO MARCH 1ST DUE TO WATERFOWL AS WELL AS APRIL 15TH TO OCTOBER 15TH FOR SAV.

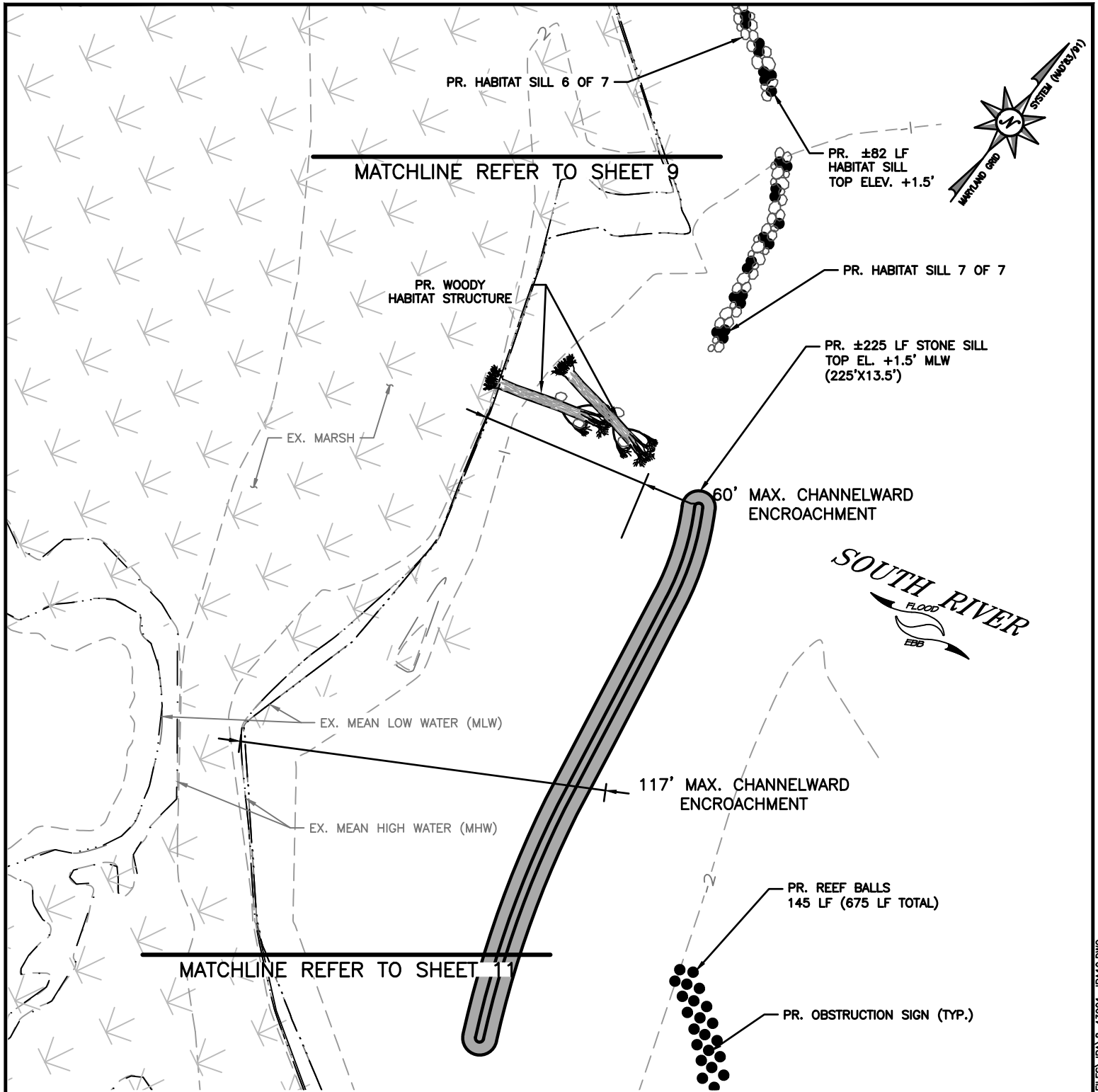
NOTE: BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY 2016 PLANIMETRICS AND 2017 IMAGERY.



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

7455 New Ridge Road, Suite 1 Hanover, Maryland 21076  
Phone: (410) 694-9401 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\WPA\_B\_43901\_JPA09.DWG



**LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD**

APPL. BY: ARUNDEL RIVERS FEDERATION

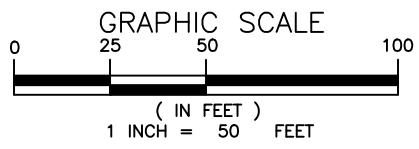
**SITE PLANS**

DATE: MAY 2024 SHEET 10 OF 16

23-WL-0675  
202361059  
5/20/2024  
Sheet 10 of 16

NOTE: ENTIRE PROJECT SITE FALLS INTO THE AREA DESIGNATED BY MARYLAND DNR TO HAVE A TIME OF YEAR RESTRICTION FOR NO WORK TO BE COMPLETED NOVEMBER 15TH TO MARCH 1ST DUE TO WATERFOWL AS WELL AS APRIL 15TH TO OCTOBER 15TH FOR SAV.

NOTE: BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY 2016 PLANIMETRICS AND 2017 IMAGERY.

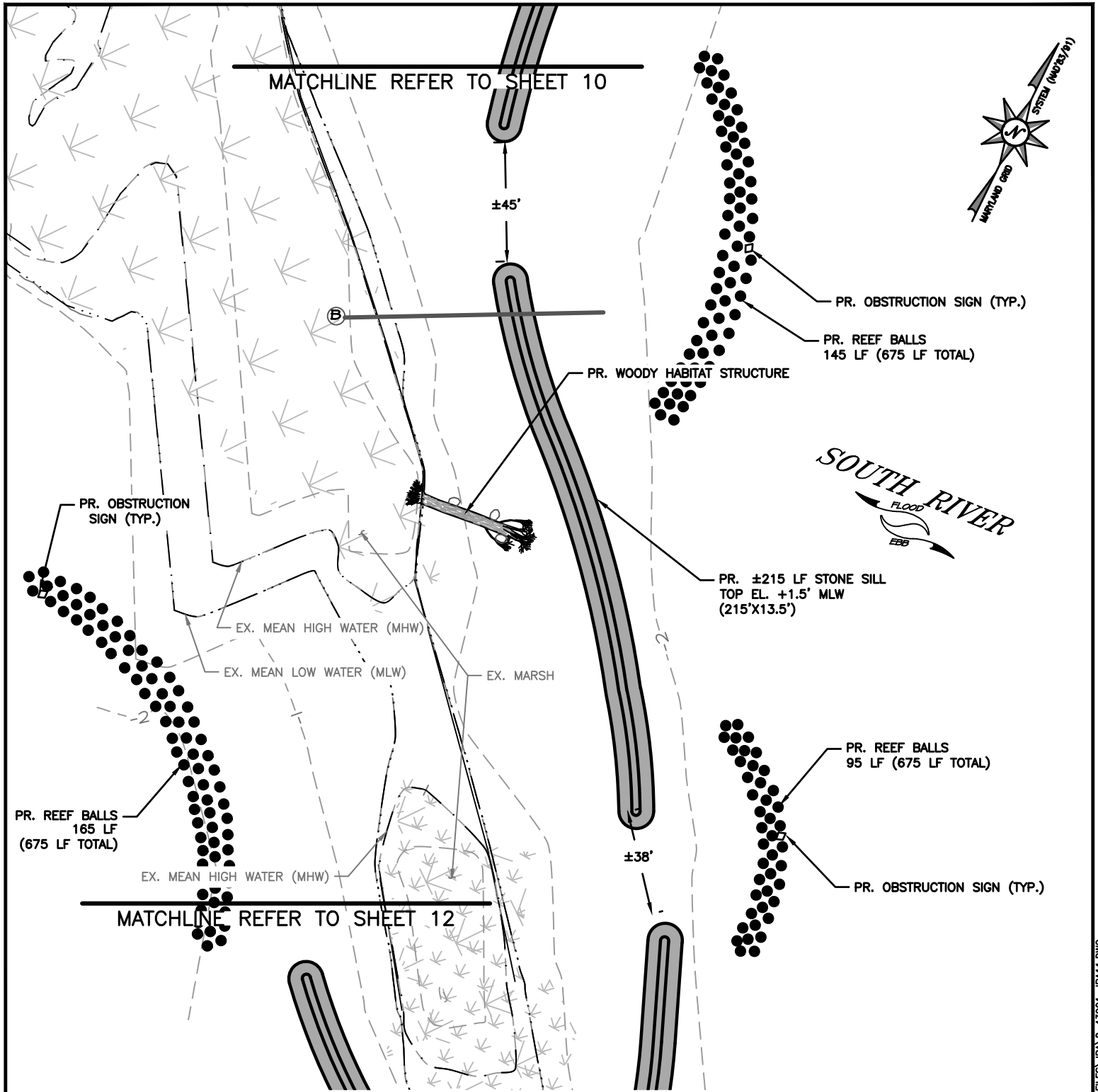


**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\WPA\_B\_43901\_JP10.DWG





MATCHLINE REFER TO SHEET 10

±45'

(B)

PR. WOODY HABITAT STRUCTURE

PR. OBSTRUCTION SIGN (TYP.)

PR. REEF BALLS  
145 LF (675 LF TOTAL)

SOUTH RIVER  
FLOOD  
EBB

PR. OBSTRUCTION SIGN (TYP.)

EX. MEAN HIGH WATER (MHW)

EX. MEAN LOW WATER (MLW)

EX. MARSH

PR. ±215 LF STONE SILL  
TOP EL. +1.5' MLW  
(215'x13.5')

PR. REEF BALLS  
165 LF  
(675 LF TOTAL)

EX. MEAN HIGH WATER (MHW)

±38'

PR. REEF BALLS  
95 LF (675 LF TOTAL)

PR. OBSTRUCTION SIGN (TYP.)

MATCHLINE REFER TO SHEET 12

NOTE: ENTIRE PROJECT SITE FALLS INTO THE AREA DESIGNATED BY MARYLAND DNR TO HAVE A TIME OF YEAR RESTRICTION FOR NO WORK TO BE COMPLETED NOVEMBER 15TH TO MARCH 1ST DUE TO WATERFOWL AS WELL AS APRIL 15TH TO OCTOBER 15TH FOR SAV.

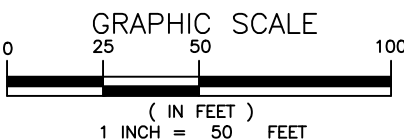
LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD

23-WL-0675  
202361059  
5/20/2024  
Sheet 11 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

SITE PLANS

DATE: MAY 2024 SHEET 11 OF 16



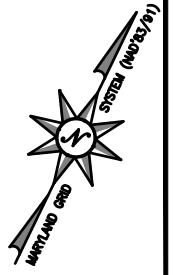
NOTE: BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY 2016 PLANIMETRICS AND 2017 IMAGERY.

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

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\WPA\_B\_43901\_JPA11.DWG

MATCHLINE REFER TO SHEET 11



EX. MEAN HIGH WATER (MHW)

EX. MEAN LOW WATER (MLW)

EX. MARSH

PR. ±285 LF STONE SILL  
TOP EL. +1.5' MLW  
(285'X13.5')

63' MAX. CHANNELWARD  
ENCROACHMENT

245' MAX. CHANNELWARD  
ENCROACHMENT

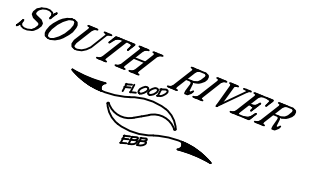
PR. REEF BALLS  
115 LF (675 LF TOTAL)

PR. REEF BALLS

PR. REEF BALLS  
155 LF (675 LF TOTAL)

PR. OBSTRUCTION SIGN (TYP.)

PR. OBSTRUCTION SIGN  
W/ OSPREY NEST



LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD

23-WL-0675  
202361059  
5/20/2024  
Sheet 12 of 16

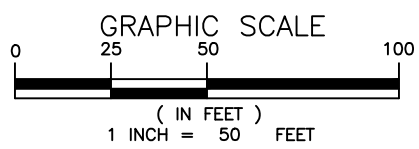
NOTE: ENTIRE PROJECT SITE FALLS INTO THE  
AREA DESIGNATED BY MARYLAND DNR TO HAVE  
A TIME OF YEAR RESTRICTION FOR NO WORK  
TO BE COMPLETED NOVEMBER 15TH TO MARCH  
1ST DUE TO WATERFOWL AS WELL AS APRIL  
15TH TO OCTOBER 15TH FOR SAV.

APPL. BY: ARUNDEL RIVERS FEDERATION

SITE PLANS

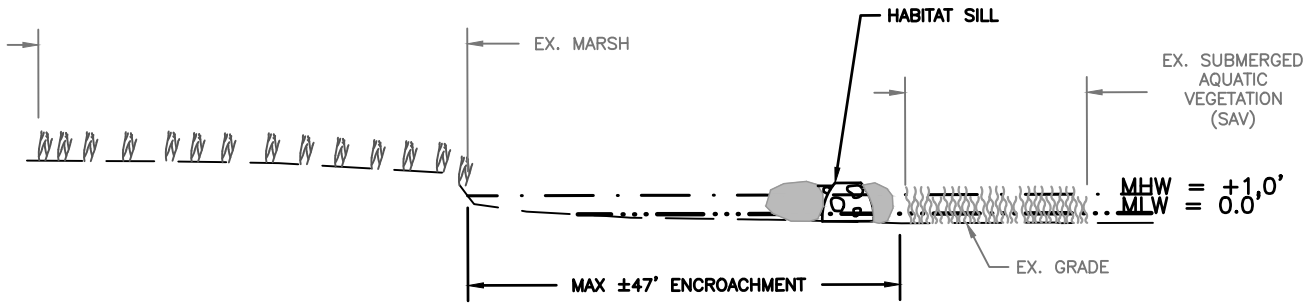
DATE: MAY 2024 SHEET 12 OF 16

NOTE:  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.

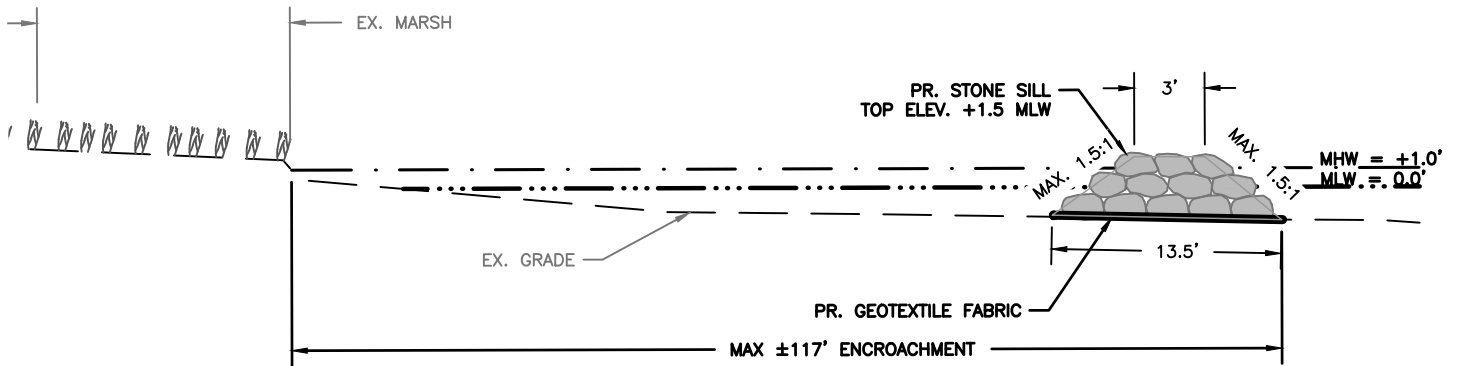


**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

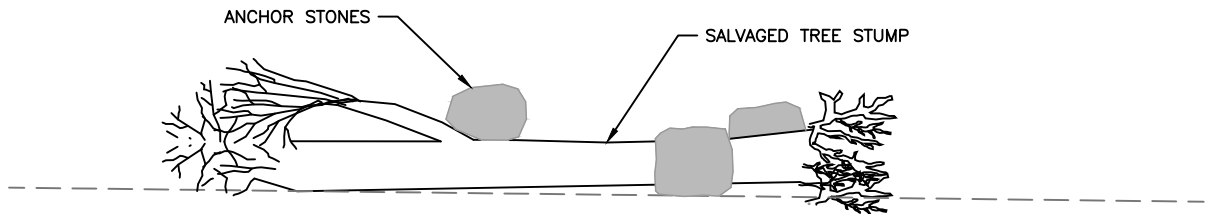
Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\WPA\_B\_43901\_JPA12.DWG



**SECTION A**  
SCALE: 1"=10'



**SECTION B**  
SCALE: 1"=10'



**TYPICAL WOODY HABITAT STRUCTURE  
PROFILE SECTION**

SCALE: NTS

LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD

23-WL-0675  
202361059  
5/20/2024  
Sheet 13 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

CROSS SECTIONS

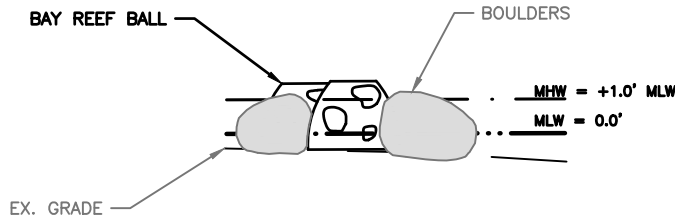
DATE: MAY 2024 SHEET 13 OF 16

NOTE:  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.

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

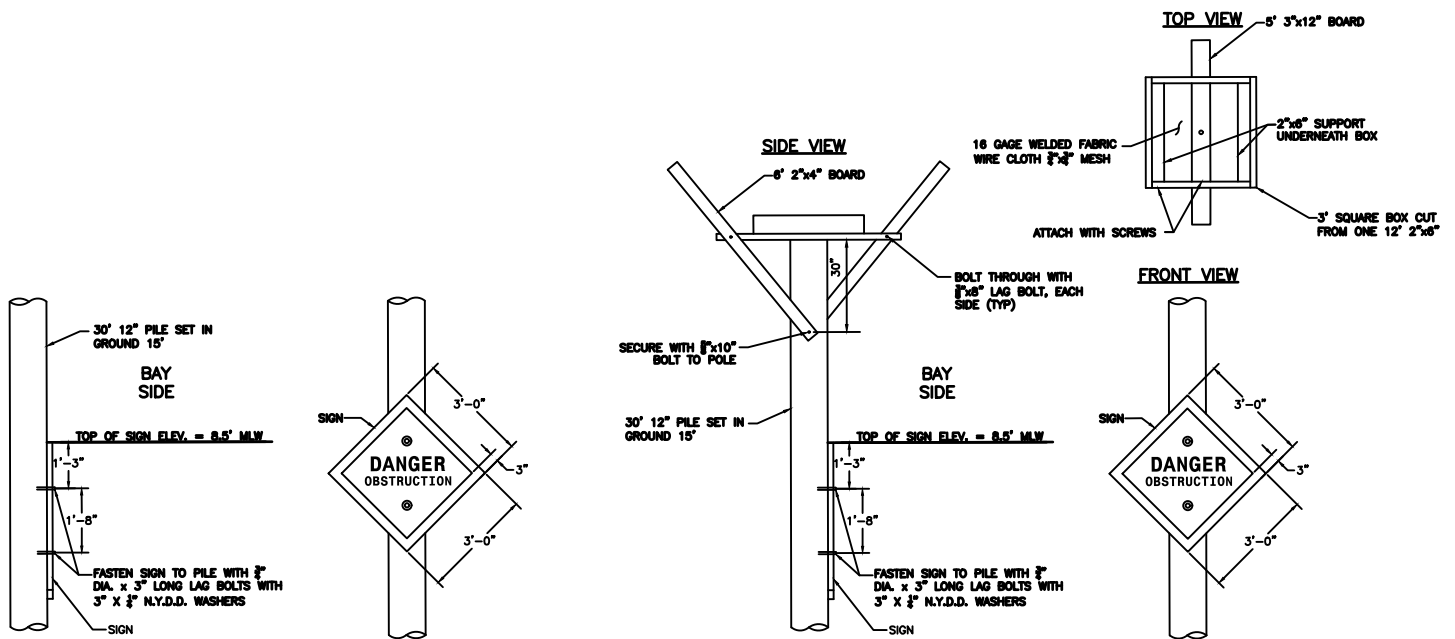
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\WPA\_B\_43901\_JPA13.DWG



**TYPICAL HABITAT SILL  
PROFILE SECTION**

SCALE: NTS



**TYPICAL HAZARD SIGN DETAIL**

SCALE: NTS

**TYPICAL OSPREY NEST DETAIL**

SCALE: NTS

LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD

23-WL-0675  
202361059  
5/20/2024  
Sheet 14 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

**CROSS SECTIONS**

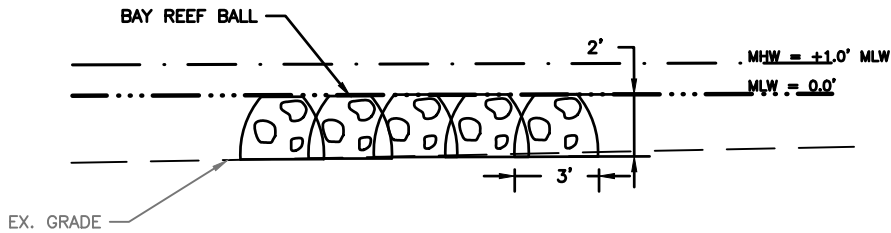
DATE: MAY 2024 SHEET 14 OF 16

NOTE:  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.

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

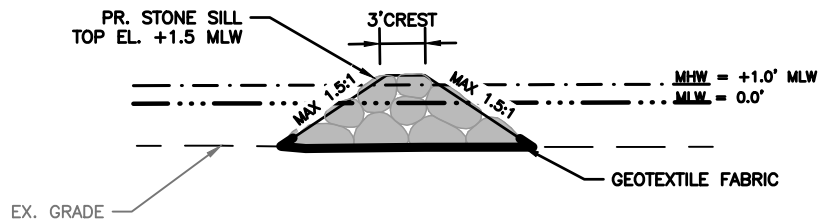
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\B-43901\_LONG\_POINT\_SHORELINE\_STABILIZATION\CAD FILES\SHEET FILES\WPA\_B-43901\_JPA14.DWG



**TYPICAL REEF BALL  
PROFILE SECTION**

SCALE: NTS



**TYPICAL STONE SILL  
PROFILE SECTION**

SCALE: 1" = 10'

LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD

23-WL-0675  
202361059  
5/20/2024  
Sheet 15 of 16

APPL. BY: ARUNDEL RIVERS FEDERATION

CROSS SECTIONS

DATE: MAY 2024 SHEET 15 OF 16

NOTE:  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.

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

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

## PROJECT SUMMARY

### PROPOSED STRUCTURES:

LOW-PROFILE STONE SILLS - 9,788 SF

LENGTH : 725 LF

AVG. WIDTH : 13.5 LF

REEF BALLS ONLY - 8,100 SF (335 TOTAL REEF BALLS)

LENGTH : 675 LF

AVG. WIDTH : 12 LF

HABITAT SILLS - 3,444 SF

LENGTH : 574 LF

AVG. WIDTH : 6 LF

## IMPACT SUMMARY

TOTAL AREA OF IMPACT FROM MHW INTO TIDAL WATERS = 13,232 SF (HABITAT SILLS AND STONE SILLS)

TOTAL AREA OF PERMANENT IMPACT TO SHALLOW WATER HABITAT = 21,332 SF

TOTAL AREA OF IMPACT TO PRIVATE TIDAL WETLANDS = 0 SF

## NOTES

1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2018 PLANIMETRICS AND AERIAL PHOTOGRAPHY.
2. SOUNDINGS AND CONTOURS ARE IN FEET AND REFER TO MLW.
3. TIDAL RANGE IS 0.99'
4. BATHYMETRIC & TOPOGRAPHIC SURVEY PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS.
5. ENTIRE PROJECT SITE FALLS INTO THE AREA DESIGNATED BY MARYLAND DNR TO HAVE A TIME OF YEAR RESTRICTION FOR NO WORK TO BE COMPLETED NOVEMBER 15TH TO MARCH 1ST DUE TO WATERFOWL AS WELL AS APRIL 15TH TO OCTOBER 15TH FOR SAV.
6. THESE ARE PERMIT DRAWINGS ONLY AND SUBJECT TO CHANGE DURING THE PERMIT PROCESS. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.

23-WL-0675  
202361059  
5/20/2024  
Sheet 16 of 16

LONG POINT SHORELINE  
STABILIZATION DESIGN  
AT  
SOUTH RIVER FARM PARK  
ANNE ARUNDEL COUNTY, MD

APPL. BY: ARUNDEL RIVERS FEDERATION

## SITE NOTES

DATE: MAY 2024 SHEET 16 OF 16

NOTE:  
BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY  
2016 PLANIMETRICS AND 2017 IMAGERY.



Consultants & Designers, Inc.

"Integrating Engineering and Environment"

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com