



U.S. Army Corps  
of Engineers

Baltimore District  
PN-19-76

# Public Notice

In Reply to Application Number  
**NAB-2019-61300 (FISHING CREEK FARM HOA, INC. /  
LIVING SHORELINE)**

Comment Period: November 13, 2019 to December 04, 2019

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**THE PURPOSE OF THIS PUBLIC NOTICE IS TO INFORM INTERESTED PARTIES OF THE PROPOSED ACTIVITY AND TO SOLICIT COMMENTS. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.)**

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344), as described below:

**APPLICANT:** Fishing Creek Farm Homeowners Association, Inc.  
Attn: Mr. Robert Booth  
1222 Cherrytree Lane  
Annapolis, Maryland 21403

**WATERWAY AND LOCATION OF THE PROPOSED WORK:** The proposed project is located in the South River/Cherrytree Cove, in Annapolis, Anne Arundel County, Maryland. Latitude: 38.924961; Longitude: -76.485865

**OVERALL PROJECT PURPOSE:** To provide shoreline erosion protection and environmental restoration along 3,305 linear feet of the South River and Cherrytree Cove shoreline in the Fishing Creek Farm community in Annapolis, Anne Arundel County Maryland.

**PROJECT DESCRIPTION:** The Fishing Creek Farm Homeowners Association Inc. has applied to construct a living shoreline along 3,305 linear feet of the South River and Cherrytree Cove community shoreline as follows:

- To construct 393 linear feet of low-profile stone sill to an elevation of +0.5 feet mean low water (MLW);
- To construct 693 linear feet of segmented sill to an elevation of +2.0 feet MLW;
- To construct 532 linear feet of segmented sill to an elevation of +3.0 feet MLW;
- To construct 473 linear feet of stone breakwater to an elevation of +3.0 feet MLW;
- To construct 125 linear feet of stone vent to an elevation of 0.0 feet MLW;
- To construct 691 linear feet of segmented sill to an elevation of +2.5' MLW.

- To emplace clean sand into an approximate 109,643 square foot area, and plant approximately 91,197 square feet of marsh plantings landward of the stone structures.

All structures will extend a maximum of 116 feet channelward of the existing mean high water shoreline. All work is to be conducted channelward of the existing mean high water shoreline. The proposed work will be completed as shown on the enclosed project plans dated July 2019.

#### **EFFECTS ON AQUATIC RESOURCES:**

Activity	WoUS Impact	Authority
Fill / stone structures	2,760 LF	Section 10/404
Fill / sand placement	109,643 SF	Section 404

**LEAD FEDERAL AGENCY:** The U.S. Army Corps of Engineers, as the lead federal agency, is responsible for all coordination pursuant to applicable federal authorities.

**APPLICANT'S PROPOSED AVOIDANCE, MINIMIZATION, AND COMPENSATORY MITIGATION:** The proposed project is a living shoreline and would result in a net increase of tidal wetlands. Approximately 91,197 square feet of tidal wetlands will be created. The applicant designed the project to the minimal footprint necessary to achieve the project purpose successfully. It is anticipated that once functionally mature, the tidal wetland component of the constructed living shoreline project would compensate for aquatic resource losses on-site and within the watershed. No compensatory mitigation is proposed by the applicant.

**CORPS EVALUATION REQUIREMENTS:** This project will be evaluated pursuant to Corps Regulatory Program Regulations (33 CFR Parts 320-332). The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonable may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economic, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and consideration of property ownership and in general, the needs and welfare of the people. The evaluation of the impact of this project will also include application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency.

**ENDANGERED SPECIES:** The lead federal agency is responsible for Endangered Species Act coordination. A preliminary review of this application indicates that the

proposed work will have no effect Federally-listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

**ESSENTIAL FISH HABITAT:** The lead federal agency is responsible for Essential Fish Habitat coordination. The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH), including species of concern, life cycle habitat, or Habitat Areas of Particular Concern. The project site lies in or adjacent to EFH as described under MSFCMA for managed species under the MSFCMA. The Baltimore District has made a preliminary determination that the project will not have a substantial adverse effect on EFH. The Baltimore District has made a preliminary determination that mitigative measures are not required to minimize adverse effects on EFH at this time. This determination may be modified if additional information indicates otherwise.

**HISTORIC RESOURCES:** The lead federal agency is responsible for historic resources coordination. Pursuant to Section 106 of the National Historic Preservation Act (NHPA) of 1966 and applicable guidance, the Corps has reviewed the latest published version of the National Register of Historic Places and initially determined that no registered properties listed as eligible for inclusion, therein, are located at the site of the proposed work. The Corps has made the preliminary determination that the proposed project would have no effect on historic properties. The Corps final eligibility and effect determination will be based on coordination with the State Historic Preservation Office as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps' identified permit area.

**TRIBAL RESOURCES:** Section 106 of the NHPA also requires federal agencies to consult with federally-recognized American Indian tribes that attach religious and cultural significance to historic properties that may be affected by the agency's undertaking. The lead federal agency is responsible for tribal coordination. Corps Tribal Consultation Policy mandates an open, timely, meaningful, collaborative, and effective deliberative communication process that emphasizes trust, respect, and shared responsibility. The policy further emphasizes that, to the extent practicable and permitted by law, consultation works toward mutual consensus and begins at the earliest planning stages, before decisions are made and actions taken. The Corps final eligibility and effect determination will be based on coordination with interested tribes, in accordance with the Corps current tribal standard operating procedures as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on tribal resources.

**MODIFICATION OF CIVIL WORKS PROJECTS: 33 USC 408 (SECTION 408):** All Section 408 proposals will be coordinated internally at USACE. The Section 408 decision will be issued along with the Section 404 and/or Section 10 decision. Please see the following link for more information regarding Section 408:  
<https://www.nab.usace.army.mil/section408/>.

**WATER QUALITY CERTIFICATION:** The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act.

**COASTAL ZONE MANAGEMENT PROGRAMS:** Where applicable, the applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the approved Coastal Zone Management (CZM) Program. By this public notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The applicant must obtain any State or local government permits which may be required.

**SUBMISSION OF COMMENTS:** The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments provided will become part of the public record for this action and are subject to release to the public through the Freedom of Information Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the U.S. Army Corps of Engineers, Baltimore District within the comment period specified above through postal mail at the address below or electronic submission to the project manager email address below. Written comments should reference the Application Number: NAB-2019-61300.

**PUBLIC HEARING REQUESTS:** Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received within the comment period as specified above to receive consideration. Also it must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected. The public hearing request may be submitted by electronic mail or mailed to the following address:

Mr. Richard Kibby  
*richard.kibby@usace.army.mil*  
U.S. Army Corps of Engineers, Baltimore District  
Attn: Regulatory Branch  
2 Hopkins Plaza  
Baltimore, Maryland 21201

It is requested that you communicate this information concerning the proposed work to any persons known by you to be interested, who did not receive a copy of this notice.

General information regarding the Corps' permitting process can be found on our website at <https://www.nab.usace.army.mil/Missions/Regulatory.aspx>. This public notice has been prepared in accordance with Corps implementing regulations at 33 CFR 325.3. If you have any questions concerning this specific project, or would like to request a paper copy of this public notice, please contact Mr. Richard Kibby at 410-962-0694 or e-mail: *richard.kibby@usace.army.mil*. This public notice is issued by the Chief, Regulatory Branch.





ANNE ARUNDEL COUNTY ADC MAP COORDINATES:  
MAP 26 GRID A-6 THRU A-7 & B-7

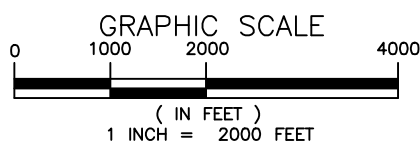
MAP COPYRIGHT UNIVERSAL MAP GROUP LLC,  
PERMITTED USE NUMBER 20911186.

# LIVING SHORELINE AT FISHING CREEK FARM ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

## VICINITY MAP

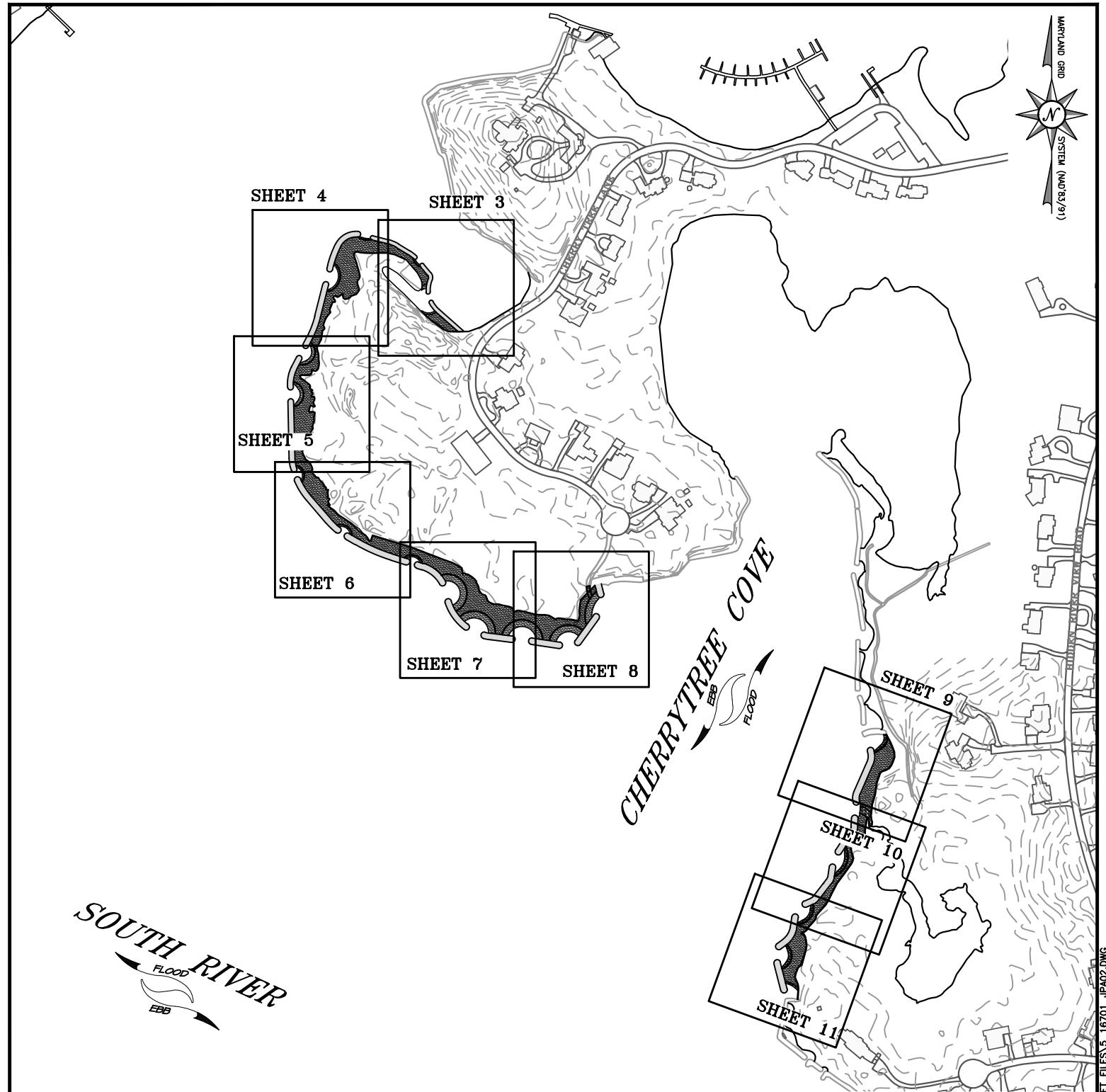
DATE: JULY 2019 SHEET 1 OF 18



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

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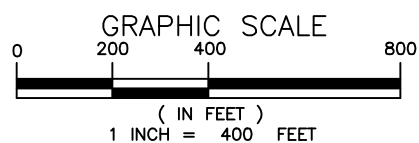


LIVING SHORELINE  
AT  
FISHING CREEK FARM  
ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
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KEY SHEET

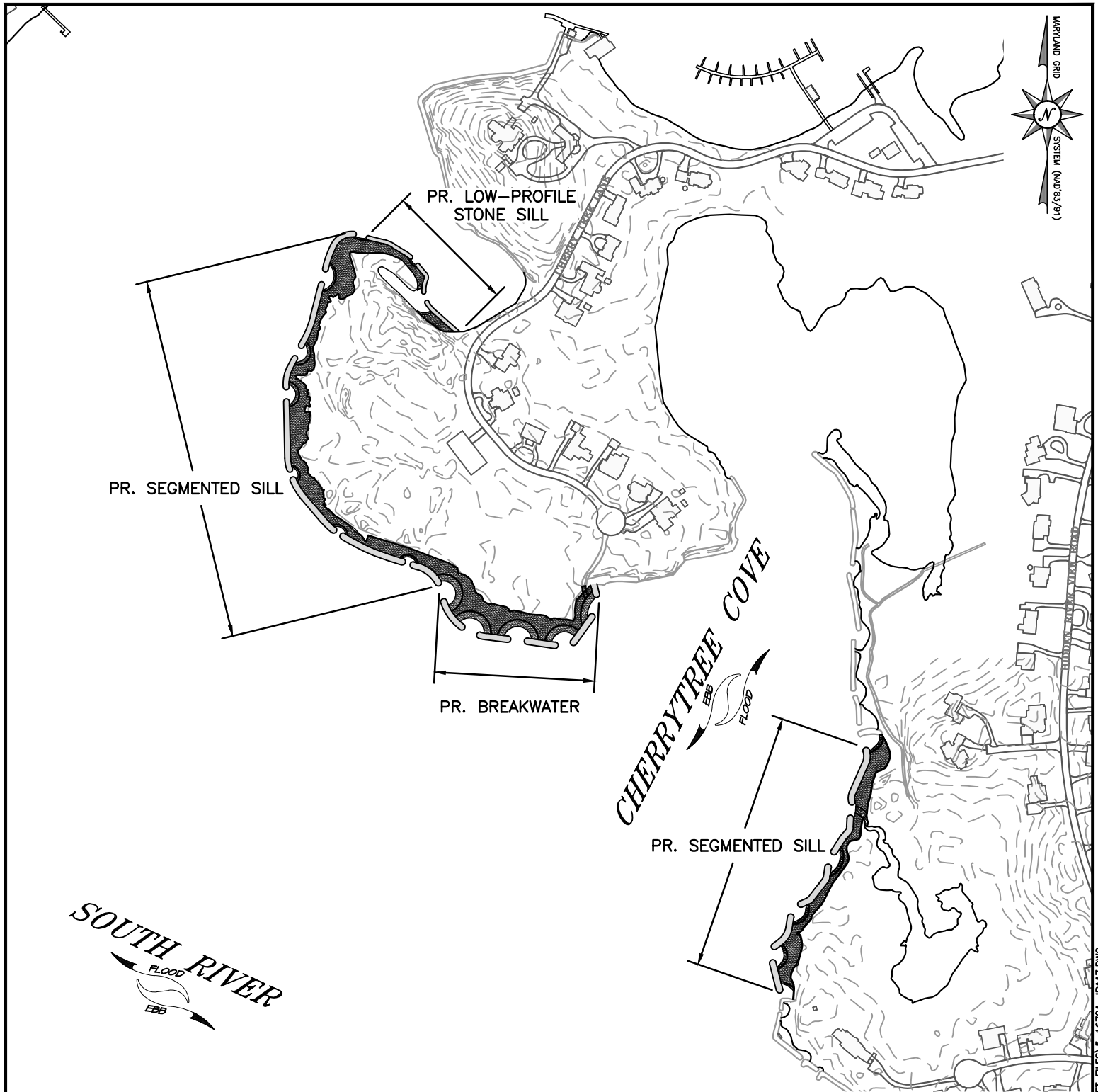
DATE: JULY 2019 SHEET 2 OF 18



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

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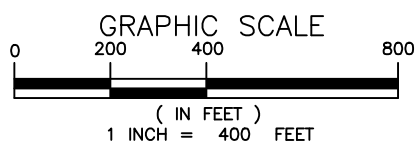


LIVING SHORELINE  
AT  
FISHING CREEK FARM  
ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

STRUCTURE KEY

DATE: JULY 2019 SHEET 3 OF 18



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SOUTH RIVER

EBB  
FLOOD

MATCHLINE REFER TO SHEET 4

PR. MARSH PLANTINGS  
(91,197 SF - TOTAL SITE)

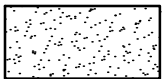
PR. 383 LF LOW-PROFILE STONE SILL  
(MAX ENCROACHMENT 51 FT)

±20' GAP FROM BOTTOM  
OF STONE

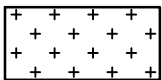
EX. MLW

EX. MHW

## LEGEND



PR. SAND FILL



PR. MARSH PLANTINGS



PR. MLW



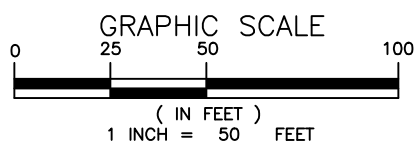
PR. MHW

# LIVING SHORELINE AT FISHING CREEK FARM ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

## SITE PLAN

DATE: JULY 2019 SHEET 4 OF 18



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**SOUTH RIVER**  
 EBB  
 FLOOD

PR. 383 SF LOW-PROFILE STONE SILL  
 (MAX. ENCROACHMENT 51 FT)

PR. MARSH PLANTINGS  
 (91,197 SF - TOTAL SITE)

PR. 693 LF SEGMENTED SILL  
 (MAX. ENCROACHMENT 106 FT)

±30' GAP FROM BOTTOM  
 OF STONE

51' MAX.  
 ENCROACHMENT

PR. MLW

PR. MHW

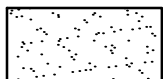
106' MAX.  
 ENCROACHMENT

EX. MHW  
 EX. MLW

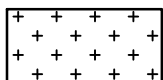
MATCHLINE REFER TO SHEET 3

MATCHLINE REFER TO SHEET 5

## LEGEND



PR. SAND FILL



PR. MARSH PLANTINGS



PR. MLW



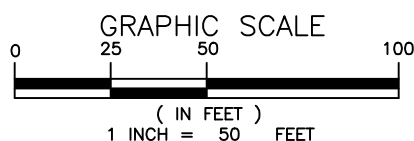
PR. MHW

## LIVING SHORELINE AT FISHING CREEK FARM ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
 HOMEOWNERS ASSOCIATION INC.

## SITE PLAN

DATE: JULY 2019 SHEET 5 OF 18



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**SOUTH RIVER**  
 EBB FLOOD

±25' GAP FROM BOTTOM  
 OF STONE

MATCHLINE REFER TO SHEET 4



PR. 693 LF SEGMENTED SILL  
 (MAX. ENCROACHMENT 106 FT)

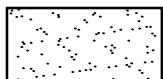
PR. MLW  
 PR. MHW

PR. MARSH PLANTINGS  
 (91,197 SF - TOTAL SITE)

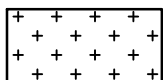
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EX. MHW  
 EX. MLW

**LEGEND**



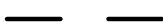
PR. SAND FILL



PR. MARSH PLANTINGS



PR. MLW



PR. MHW

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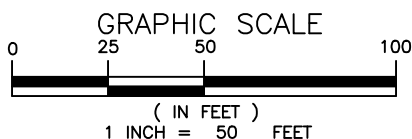
MATCHLINE REFER TO SHEET 6

**LIVING SHORELINE  
 AT  
 FISHING CREEK FARM  
 ANNE ARUNDEL COUNTY, MD**

APPL. BY: FISHING CREEK FARM  
 HOMEOWNERS ASSOCIATION INC.

**SITE PLAN**

DATE: JULY 2019 SHEET 6 OF 18



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-2.5

MATCHLINE REFER TO SHEET 5

PR. 693 LF SEGMENTED SILL  
(MAX. ENCROACHMENT 106 FT)

E

PR. MARSH PLANTINGS  
(91,197 SF - TOTAL SITE)

-2.4

PR. 529 LF SEGMENTED SILL  
(MAX. ENCROACHMENT 80 FT)

±15' GAP FROM BOTTOM  
OF STONE

-2.6

PR. MHW

PR. MLW

EX. MLW

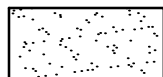
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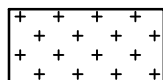
-2.7

-2.3

## LEGEND



PR. SAND FILL



PR. MARSH PLANTINGS



PR. MLW



PR. MHW

SOUTH RIVER  
FLOOD  
EBB

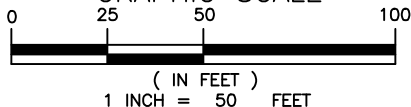
## LIVING SHORELINE AT FISHING CREEK FARM ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

## SITE PLAN

DATE: JULY 2019 SHEET 7 OF 18

GRAPHIC SCALE



NOTE:  
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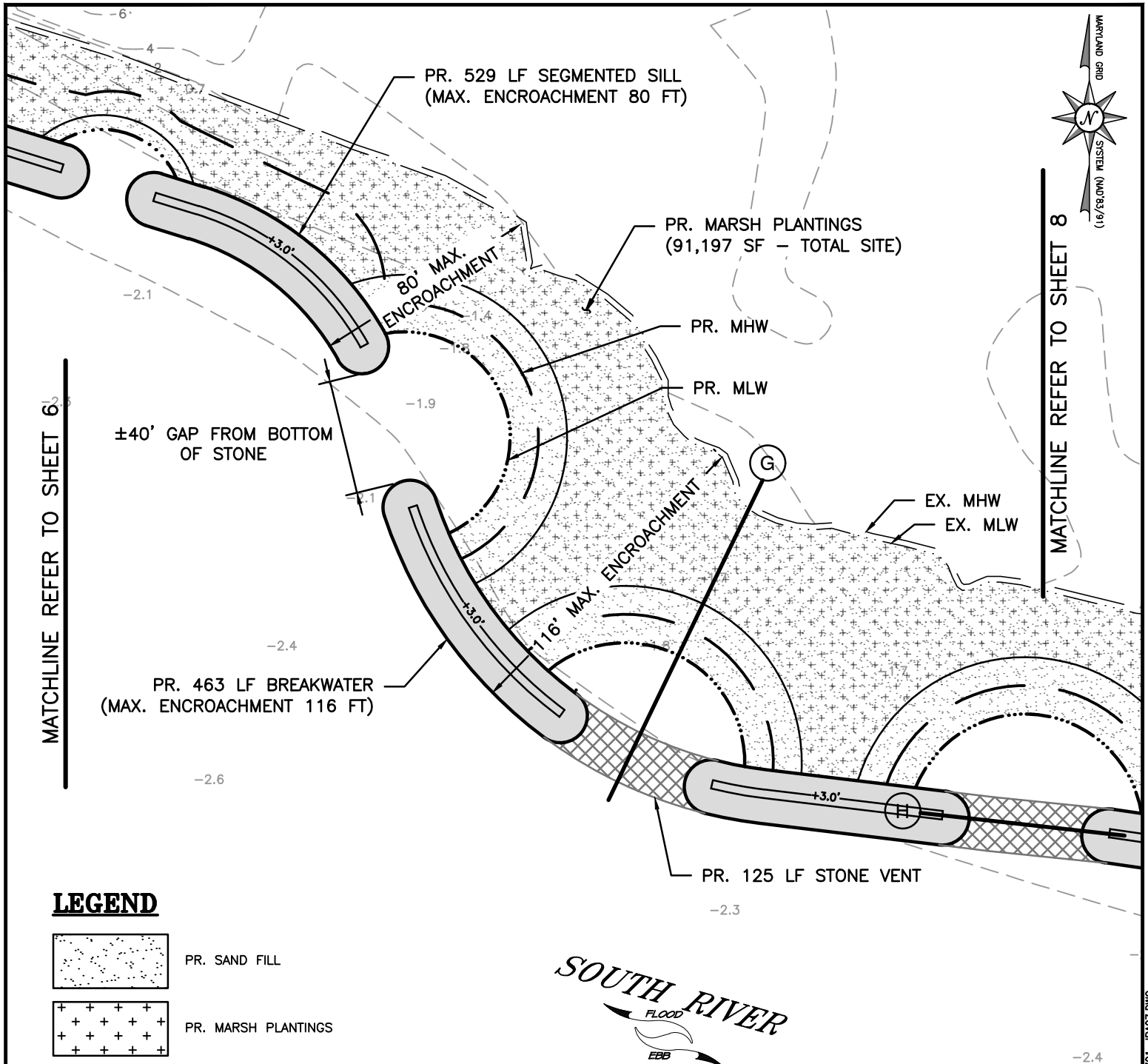
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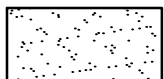
MATCHLINE REFER TO SHEET 7

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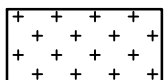




## LEGEND



PR. SAND FILL



PR. MARSH PLANTINGS



PR. MLW



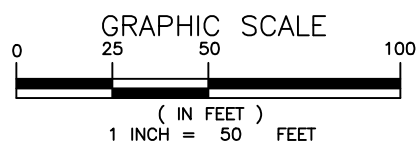
PR. MHW

## LIVING SHORELINE AT FISHING CREEK FARM ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

## SITE PLAN

DATE: JULY 2019 SHEET 8 OF 18



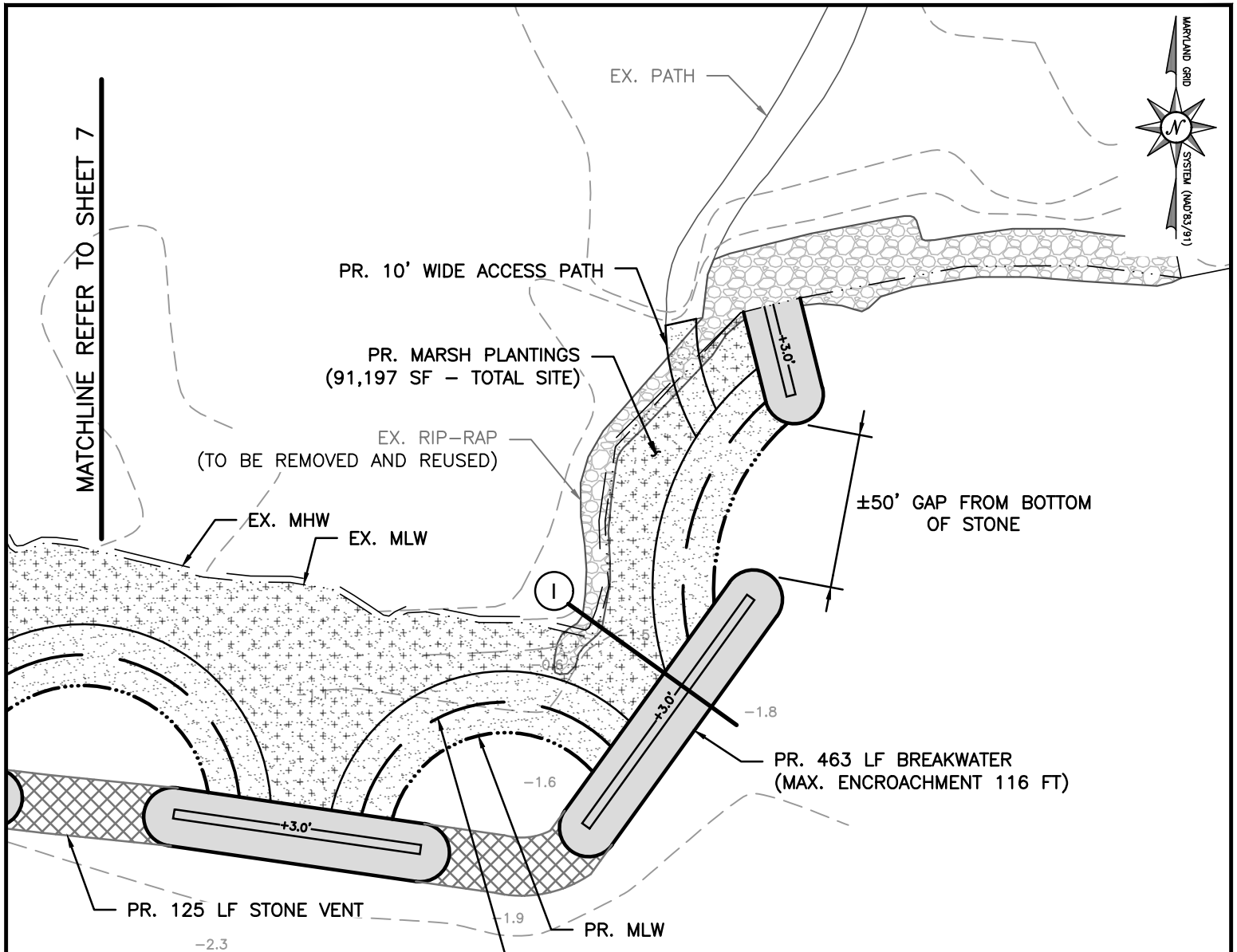
NOTE:  
BASEMAP FROM ANNE ARUNDEL 2016  
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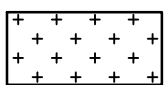
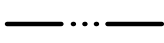
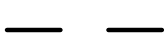
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**LEGEND**

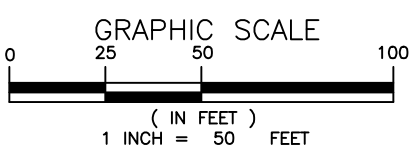
-  PR. SAND FILL
-  PR. MARSH PLANTINGS
-  PR. MLW
-  PR. MHW

**LIVING SHORELINE  
AT  
FISHING CREEK FARM  
ANNE ARUNDEL COUNTY, MD**

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

**SITE PLAN**

DATE: JULY 2019 SHEET 9 OF 18



NOTE:  
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PLANIMETRICS AND 2017 IMAGERY.

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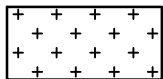
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# LEGEND



PR. SAND FILL



PR. MARSH PLANTINGS



PR. MLW



PR. MHW

**CHERRYTREE COVE**  
EBB  
FLOOD

EX. STONE SILL (TYP)

PR. 692 LF SEGMENTED SILL  
(MAX. ENCROACHMENT 88 FT)

PR. 62 LF COBBLE PILOT CHANNEL

EX. PATH

PR. MLW

PR. MHW

EX. MHW

EX. MLW

PR. MARSH PLANTINGS  
(91,197 SF - TOTAL SITE)

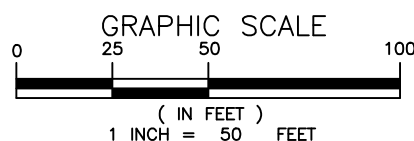
MATCHLINE REFER TO SHEET 10

## LIVING SHORELINE AT FISHING CREEK FARM ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

### SITE PLAN

DATE: JULY 2019 SHEET 10 OF 18



NOTE:  
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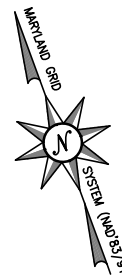
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Z:\5\_16701\_FISHING\_CREEK\_FARM\_WQ\_IMPROVEMENTS\CAD FILES\SHEET FILES\5\_16701\_JPA09.DWG

MATCHLINE REFER TO SHEET 9



**SOUTH RIVER**  
EBB FLOOD

PR. 692 LF SEGMENTED SILL  
(MAX. ENCROACHMENT 88 FT)

±30' GAP FROM BOTTOM  
OF STONE

PR. MLW

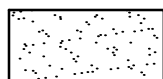
PR. MHW

EX. MHW

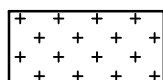
EX. MLW

PR. MARSH PLANTINGS  
(91,197 SF - TOTAL SITE)

## LEGEND



PR. SAND FILL



PR. MARSH PLANTINGS



PR. MLW



PR. MHW

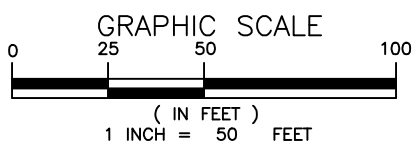
MATCHLINE REFER TO SHEET 11

# LIVING SHORELINE AT FISHING CREEK FARM ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

## SITE PLAN

DATE: JULY 2019 SHEET 11 OF 18



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

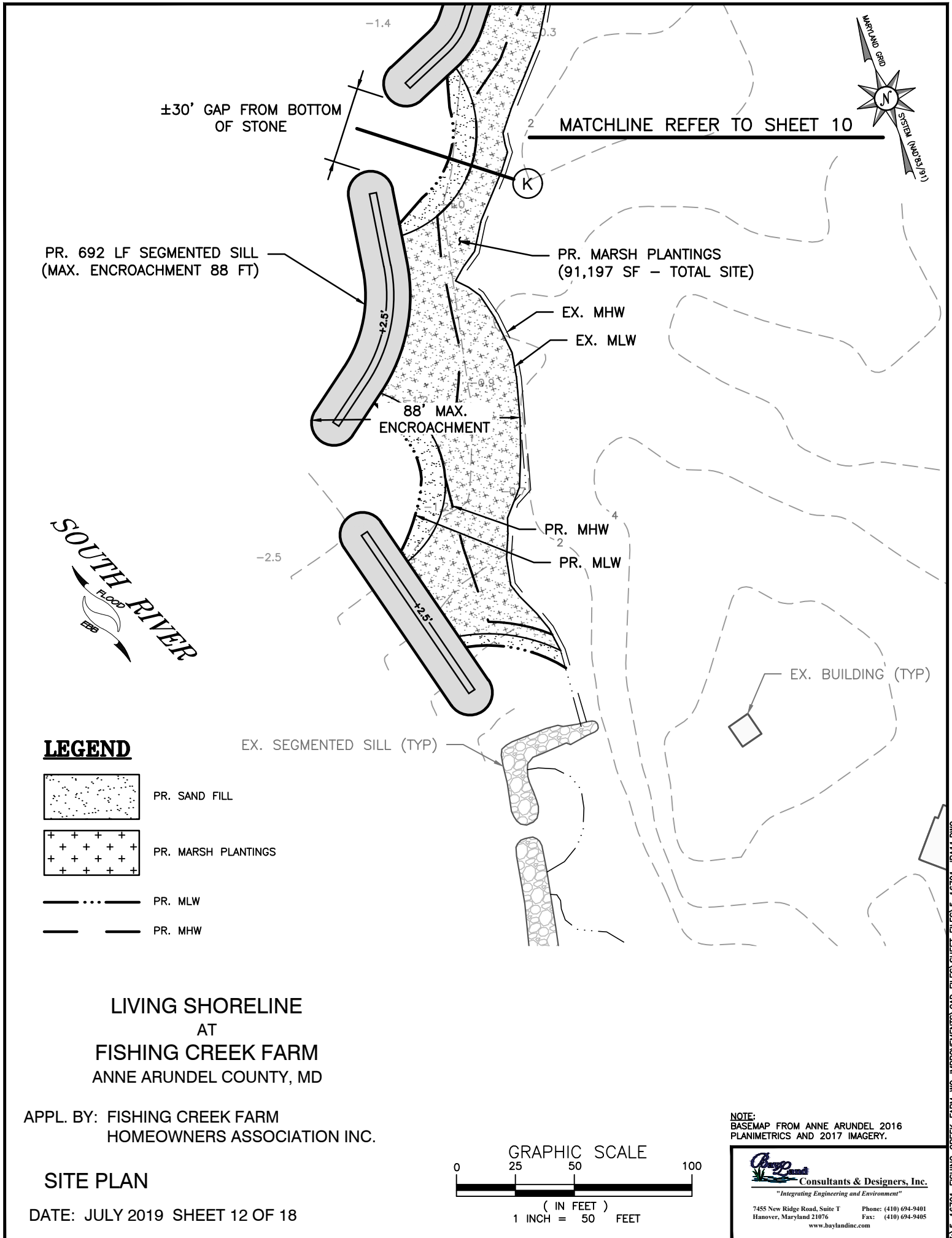


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±30' GAP FROM BOTTOM  
OF STONE

MATCHLINE REFER TO SHEET 10

PR. 692 LF SEGMENTED SILL  
(MAX. ENCROACHMENT 88 FT)

PR. MARSH PLANTINGS  
(91,197 SF - TOTAL SITE)

EX. MHW

EX. MLW

88' MAX.  
ENCROACHMENT

PR. MHW

PR. MLW

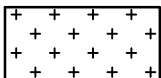
EX. BUILDING (TYP)

EX. SEGMENTED SILL (TYP)

**LEGEND**



PR. SAND FILL



PR. MARSH PLANTINGS



PR. MLW



PR. MHW

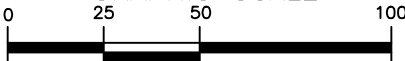
LIVING SHORELINE  
AT  
FISHING CREEK FARM  
ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

**SITE PLAN**

DATE: JULY 2019 SHEET 12 OF 18

GRAPHIC SCALE



( IN FEET )  
1 INCH = 50 FEET

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

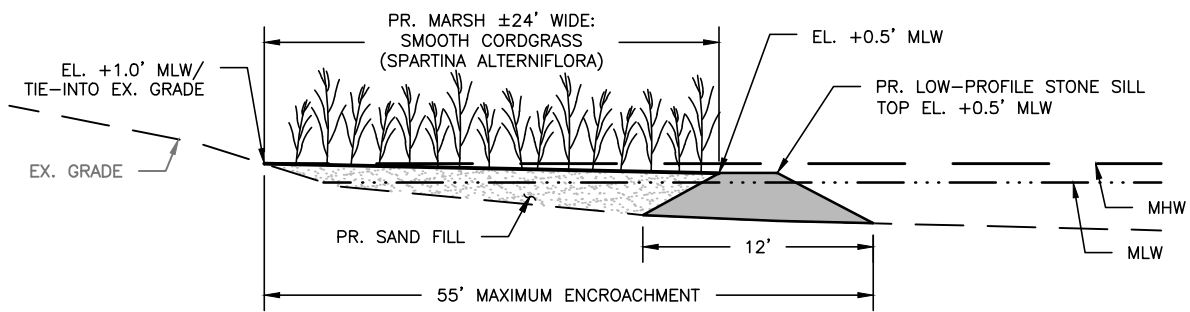


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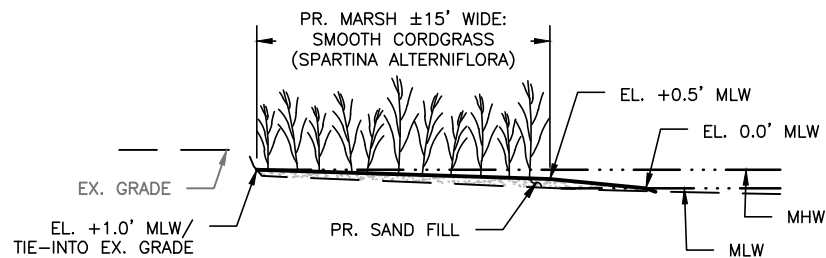
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
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Z:\5\_16701\_FISHING\_CREEK\_FARM\_WQ\_IMPROVEMENTS\CAD FILES\SHEET FILES\5\_16701\_JPA11.DWG



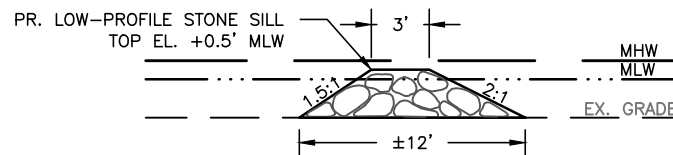
### SECTION "A" : LOW-PROFILE STONE SILL

SCALE: 1" = 10'



### SECTION "B" : VENT

SCALE: 1" = 10'



### TYPICAL LOW-PROFILE STONE SILL

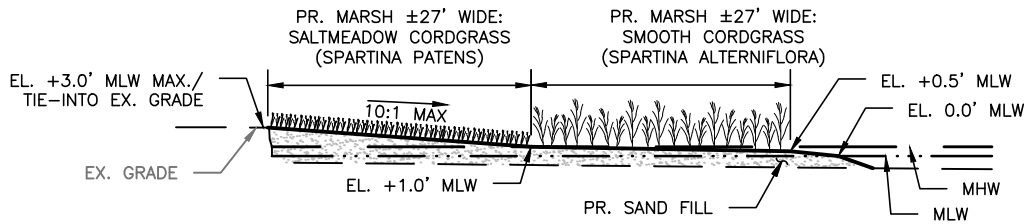
SCALE: 1" = 10'

LIVING SHORELINE  
AT  
FISHING CREEK FARM  
ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

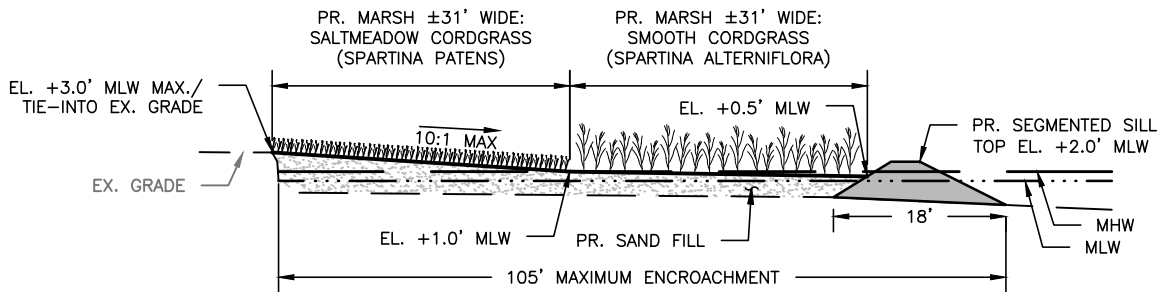
SITE DETAILS

DATE: JULY 2019 SHEET 13 OF 18



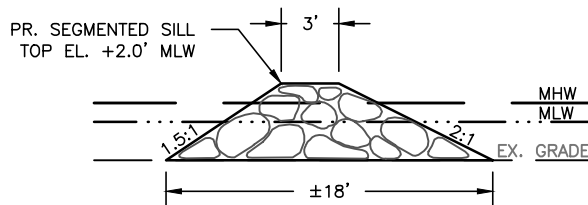
### SECTION "C" : VENT

SCALE: 1" = 20'



### SECTION "D" : SEGMENTED SILL

SCALE: 1" = 20'



### +2.0' TOP OF CREST SEGMENTED SILL

SCALE: 1" = 10'

LIVING SHORELINE  
AT  
FISHING CREEK FARM  
ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

### SITE DETAILS

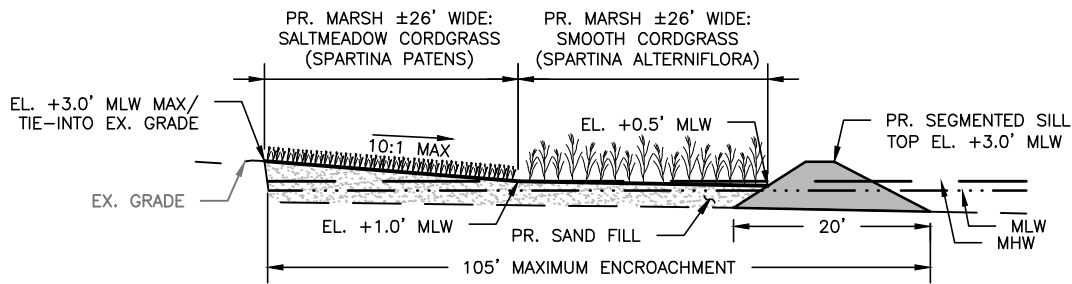
DATE: JULY 2019 SHEET 14 OF 18



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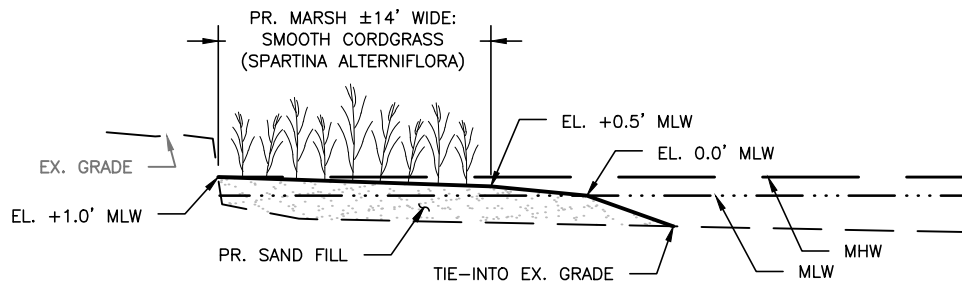
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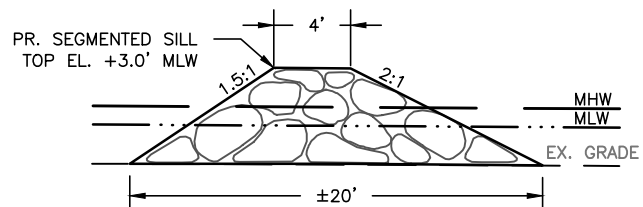
## SECTION "E" : SEGMENTED SILL

SCALE: 1" = 20'



## SECTION "F" : VENT

SCALE: 1" = 10'



LIVING SHORELINE  
AT  
FISHING CREEK FARM  
ANNE ARUNDEL COUNTY, MD

## +3.0' TOP OF CREST SEGMENTED SILL

SCALE: 1" = 10'

APPL. BY: FISHING CREEK FARM  
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## SITE DETAILS

DATE: July 2019 SHEET 15 OF 18

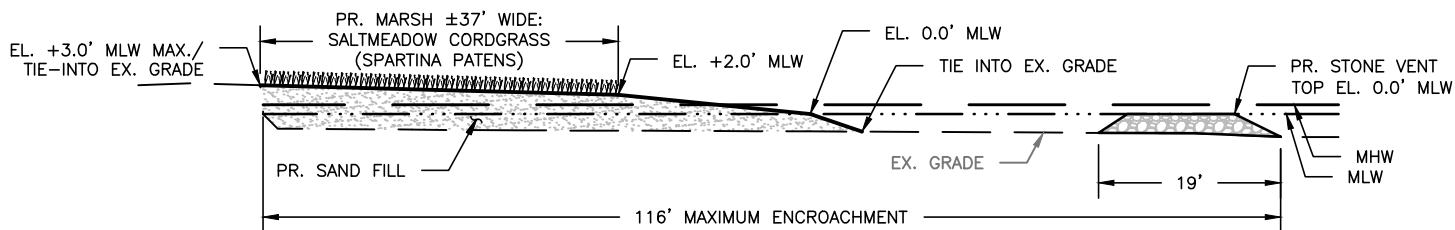


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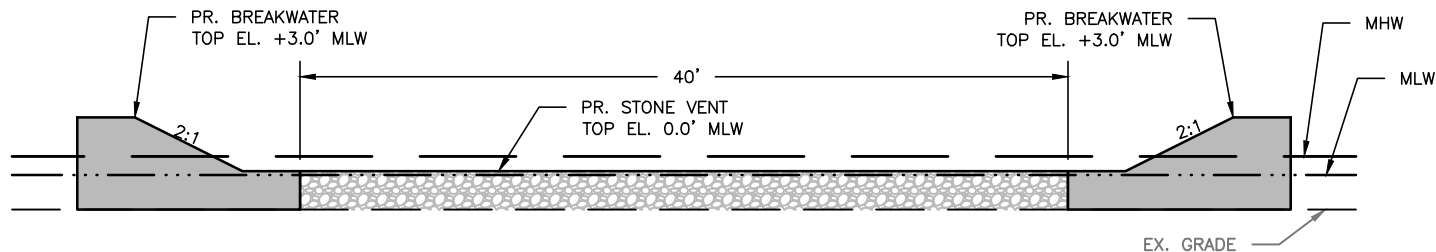
7455 New Ridge Road, Suite T Phone: (410) 694-9401  
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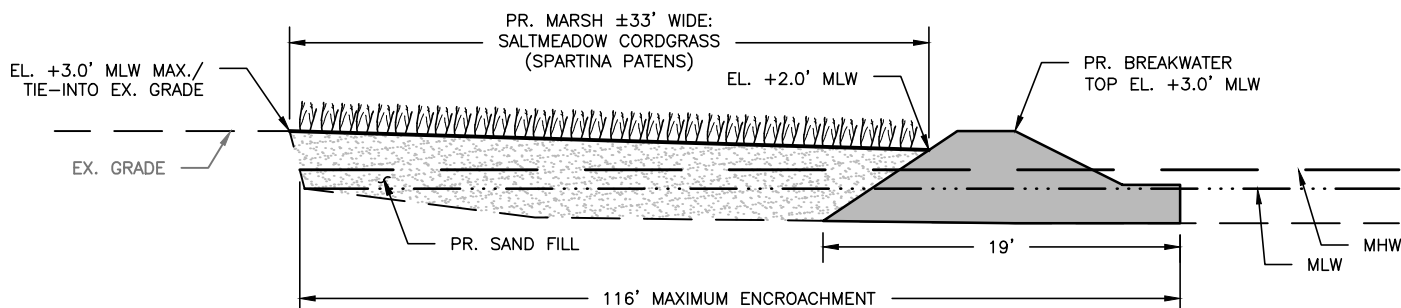
### SECTION "G" : STONE VENT

SCALE: 1" = 20'



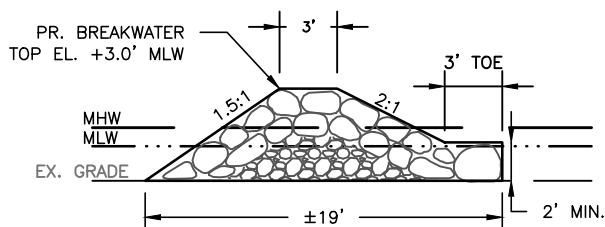
### SECTION "H" : BREAKWATER

SCALE: 1" = 10'



### SECTION "I" : BREAKWATER

SCALE: 1" = 10'



### TYPICAL BREAKWATER

SCALE: 1" = 10'

LIVING SHORELINE  
AT  
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ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
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SITE DETAILS

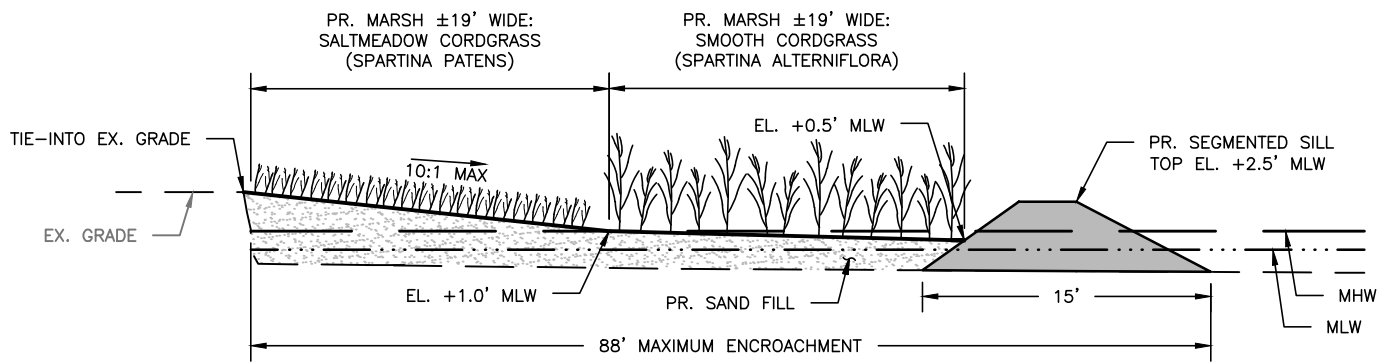
DATE: July 2019 SHEET 16 OF 18



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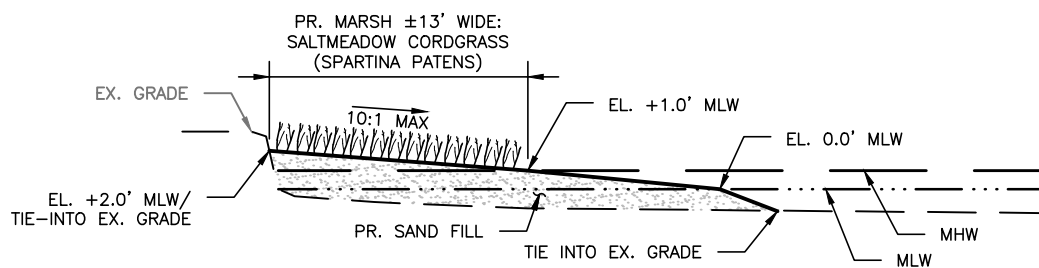
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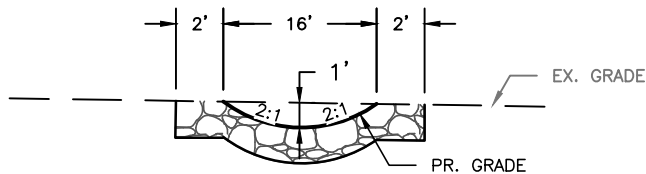
### SECTION "J" : SEGMENTED SILL

SCALE: 1" = 10'



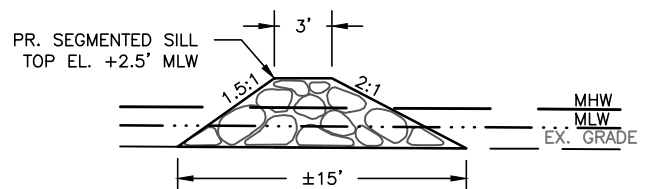
### SECTION "K" : VENT

SCALE: 1" = 10'



### PILOT CHANNEL TYPICAL SECTION

SCALE: NTS



### +2.5' TOP OF CREST SEGMENTED SILL

SCALE: 1" = 10'

LIVING SHORELINE  
AT  
FISHING CREEK FARM  
ANNE ARUNDEL COUNTY, MD

APPL. BY: FISHING CREEK FARM  
HOMEOWNERS ASSOCIATION INC.

### SITE DETAILS

DATE: JULY 2019 SHEET 17 OF 18

## PROJECT SUMMARY

### PROPOSED STRUCTURES:

LOW-PROFILE STONE SILL - 383 LF; MAX. ENCROACHMENT 51 FT  
SEGMENTED SILL - 1,914 LF TOTAL; MAX. ENCROACHMENT 106 FT  
+2.0' MLW TOP OF CREST SEGMENTED SILL - 693 LF; MAX. ENCROACHMENT 106 FT  
+2.5' MLW TOP OF CREST SEGMENTED SILL - 692 LF; MAX. ENCROACHMENT 88 FT  
+3.0' MLW TOP OF CREST SEGMENTED SILL - 529 LF; MAX. ENCROACHMENT 80 FT  
BREAKWATER - 463 LF; MAX. ENCROACHMENT 116 FT  
STONE VENT - 125 LF; MAX. ENCROACHMENT 116 FT  
COBBLE PILOT CHANNEL - 62 LF; MAX. ENCROACHMENT 35 FT

TOTAL LENGTH OF STRUCTURES - 2,760 LF  
TOTAL LENGTH OF GAPS/VENTS - 545 LF

MARSH PLANTINGS - 91,197 SF TOTAL

SAND FILL - 109,643 SF TOTAL

TOTAL AREA OF IMPACT FROM MHW INTO TIDAL WATERS - 160,207 SF (3.68 ACRES)

## NOTES

1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2016 PLANIMETRICS AND 2017 IMAGERY.
2. SOUNDINGS AND CONTOURS ARE IN FEET AND REFER TO MLW.
3. TIDAL RANGE 0.97 FEET.
4. BATHYMETRIC SURVEY WAS PERFORMED BY BAYLAND ON 01/11/2018.
5. THESE ARE PERMIT DRAWINGS ONLY AND SUBJECT TO CHANGE DURING THE PERMIT PROCESS. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.

LIVING SHORELINE  
AT  
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## SITE NOTES

DATE: JULY 2019 SHEET 18 OF 18

