

**U.S. Army Corps  
of Engineers**

Baltimore District  
PN-23-14

# Public Notice

**In Reply to Application Number  
NAB-2021-61285-M49 (HO DPW/South Meadow Ct./Pond  
& Stream Restoration)**

Comment Period: March 23, 2023 to April 22, 2023

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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 404 of the Clean Water Act (33 USC 1344), as described below:

**APPLICANT:**

Mr. Charles Dammers, P.E.  
Howard County DPW  
9801 Broken Land Parkway  
Columbia, Maryland 21046

**WATERWAY AND LOCATION OF THE PROPOSED WORK:**

The two stormwater management ponds are located on an unnamed tributary to the Little Patuxent River in Centennial Park, east of the terminus of South Meadow Court in Ellicott City, Howard County, Maryland. (39.246014, -76.858812).

**OVERALL PROJECT PURPOSE:**

The purpose of the project is to improve water quality treatment and public safety in the Little Patuxent watershed by decommissioning a failed stormwater management pond, retrofitting a sediment basin to comply with MD Code 378 safety standards, replacing a sewer line, and restoring two reaches of stream.

**PROJECT DESCRIPTION:**

The project site consists of two in-line stormwater management facilities: one a stormwater management pond directly east of the cul-de-sac of South Meadow Court, and one sediment basin just north of Centennial Lake. The stormwater management pond outfalls to an ephemeral stream, which confluent with a perennial stream before entering a sediment basin that discharges to Centennial Lake. Both stormwater facilities

are degraded in existing conditions and do not comply with MD Code 378 safety standards. Erosion has undermined the inflow and outfall points of the stormwater management pond and is encroaching upon an adjacent sewer line. The project proposes to decommission the stormwater management pond and construct a natural stream alignment through its footprint. Two new 30-inch reinforced concrete pipe storm drains will be constructed to convey flow from the decommissioned pond to the receiving tributary. The sewer line will be relocated to cross under the stream at a stable location with several feet of overhead cover. The project proposes to retrofit the downstream sediment basin to provide additional water quality treatment volume and improve embankment stability. The proposed work will excavate the basin to a lower elevation, expand the footprint of the basin, install a forebay, and reconstruct the facility embankment with a clay core, cutoff trench, and filter diaphragm. The basin will be constructed with a 20-foot by 10-foot riser structure and weir structure connected to a 72-inch reinforced concrete principal spillway pipe, which will discharge flow to a constructed plunge pool before entering Centennial Lake.

In addition to the stormwater work, the project proposes to restore the two streams entering the sediment basin to reduce erosion and create a stable tie-in to the new pond forebay. On the ephemeral tributary, the restoration proposes to raise the existing stream bed elevation and install cobble bed material, boulder sills, and log vanes. On the perennial tributary, the restoration proposes to grade streambanks to create a floodplain bench area and install an alternating sequence of riffles and pools in the stream. The project will grade depressional areas within the floodplain bench to create wetlands and will furnish the floodplain with woody debris.

The stormwater retrofits and stream restoration will permanently impact 490 linear feet (25,087 square feet) of perennial stream, 359 linear feet (1,223 square feet) of ephemeral stream, and 31 square feet of forested nontidal wetlands. Construction access and dewatering will temporarily impact 11 linear feet (1,368 square feet) of perennial stream and 22 square feet of forested nontidal wetlands.

**EFFECTS ON AQUATIC RESOURCES:**

Activity	Stream Impact (lf)	Stream Impact (sq. ft.)	Forested Wetland Impact (sq. ft.)	Authority (Section 10/404/408)
Permanent impacts associated with stormwater retrofits and stream restoration	490 (perennial) 359 (ephemeral)	25, 087 (perennial) 1,223 (ephemeral)	31	Section 404
Temporary impacts associated with construction access and dewatering	11 (perennial)	1,368 (perennial)	22	Section 404

**LEAD FEDERAL AGENCY:**

The United States 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:**

Avoidance and minimization:

As part of the planning process for the South Meadow Court Pond Retrofit and Stream Restoration project, steps were taken to ensure avoidance and minimization of impacts to aquatic resources to the maximum extent practicable based on the existing site conditions. The two stormwater facilities were constructed in the 1980s and do not provide sufficient water quality treatment for current runoff volumes. Additionally, neither facility is currently in compliance with MD Code 378 safety standards. The outfall tributary for the stormwater management pond has eroded and features an approximately 8-foot deep headcut at the end section of the pond riser. Continued erosion could damage the outfall structure and lead to a potential pond breach. The embankment of the sediment basin has deteriorated and has required maintenance in recent years. Additionally, frequent overtopping of the basin has caused erosion between the outfall channel and Centennial Lake. The project is designed to improve the long-term stability of the basin and to reduce sediment discharges to Centennial Lake and the Little Patuxent River.

The project will construct a natural stream system within the footprint of the decommissioned pond. Stream restoration work is limited to two reaches of stream that are degraded in existing conditions. Geomorphic assessments performed on the two inflow tributaries classified bank erosion hazard index and near bank stress scores as 'Very High' and estimated that in-stream erosion is contributing 18 and 45 tons of sediment per year, respectively. Further lateral erosion could damage an adjacent sewer line and pollute Centennial Lake. The stream restoration will result in overall functional uplift by increasing stream–floodplain access, reducing erosion, improving instream habitat, and creating new riparian wetland areas. The restoration has been designed to avoid impacts to specimen trees, and all disturbed riparian areas will be replanted with native trees and shrubs.

### **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, United States Environmental Protection Agency.

### **ENDANGERED SPECIES:**

A preliminary review of this application indicates that the proposed work is not likely to adversely affect federally listed rare, 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 Magnuson-Stevens Fishery Conservation and Management Act, 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 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 Baltimore District has made a preliminary determination that the project is not within 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:**

Pursuant to Section 106 of the National Historic Preservation Act 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 adverse 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 National Historic Preservation Act 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. 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 the United States Army Corps of Engineers. 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.

### **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 United States 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-2021-61285-M49).

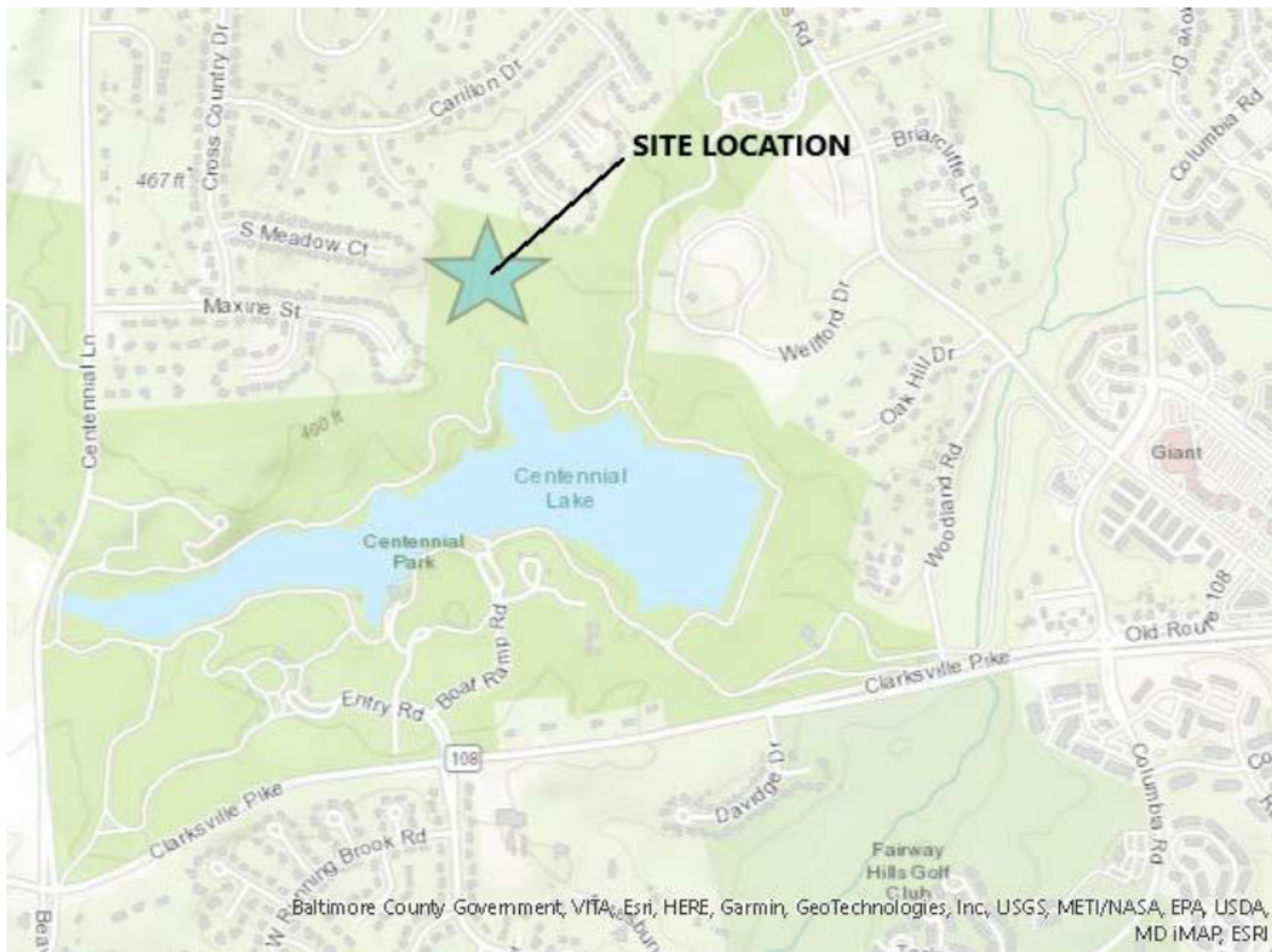
### **PUBLIC HEARING REQUESTS:**

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:

Matt Hynson  
[Matthew.Hynson@usace.army.mil](mailto:Matthew.Hynson@usace.army.mil)  
U.S. Army Corps of Engineers, Baltimore District  
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 Matt Hynson at [Matthew.Hynson@usace.army.mil](mailto:Matthew.Hynson@usace.army.mil) or (410) 689-9532. This public notice is issued by the Chief, Regulatory Branch.



**Figure 1: Site Location Map**



SHEET INDEX		
SHEET #	DWG #	SHEET TITLE
01	TI-01	TITLE SHEET
02-05	EC-01 - EC-04	EXISTING CONDITIONS PLAN
06-09	EF-01 - EF-04	ENVIRONMENTAL FEATURES MAP
10	SW-01	SEDIMENT BASIN RETROFIT PLAN
11	SW-02	SEDIMENT BASIN RETROFIT PROFILE
12-14	SW-03 - SW-05	SEDIMENT BASIN RETROFIT SECTIONS
15-16	SW-06 - SW-07	SEDIMENT BASIN RETROFIT DETAILS
17-18	SW-08 - SW-09	SEDIMENT BASIN RETROFIT STRUCTURAL DETAILS
19	SR-01	MAINSTEM STREAM RESTORATION GRADING PLAN
20	SR-02	MAINSTEM STREAM RESTORATION GEOMETRY LAYOUT
21	SR-03	MAINSTEM STREAM RESTORATION PROFILE
22	SR-04	MAINSTEM STREAM RESTORATION DETAILS
23	SR-05	MAINSTEM STREAM RESTORATION CROSS SECTIONS
24	SR-06	WESTERN TRIBUTARY PLAN
25-27	SR-07 - SR-09	STREAM DETAILS
28	SR-10	WESTERN TRIBUTARY STREAM PROFILE
29	SR-11	STORM DRAIN PROFILE
30-35	SR-12 - SR-17	WESTERN TRIBUTARY CROSS SECTIONS
36-38	EN-01 - EN-03	EROSION & SEDIMENT CONTROL NOTES
39-54	ES-01 - ES-16	EROSION & SEDIMENT CONTROL PLAN PHASES I-IV
55-57	ED-01 - ED-03	EROSION & SEDIMENT CONTROL DETAILS
58-61	LS-01 - LS-04	LANDSCAPE PLAN
62-63	LS-05 - LS-06	LANDSCAPE SCHEDULE
64	LS-07	LANDSCAPE DETAILS
65-68	UT-01 - UT-04	SEWER REPLACEMENT PLANS

LEGEND		
	SS	EXISTING SANITARY LINE AND MANHOLE
	W	EXISTING WATER LINE
	X	EXISTING TRAVERSE POINT
	X	EXISTING FENCE
	SS	EXISTING STORMWATER PIPE
	SS	EXISTING STORMWATER MANHOLE
		PROPERTY BOUNDARY
		EXISTING RIGHT-OF-WAY
		EXISTING EASEMENT
		TREELINE
		EXISTING TREE
		EXISTING STRUCTURE
		EXISTING PATH
	450	EXISTING 5' MAJOR CONTOUR
	100 YR	EXISTING 1' MINOR CONTOUR
	100 YR	EXISTING FLOODPLAIN BOUNDARY
		PROPOSED FLOODPLAIN BOUNDARY
		WATERWAY CENTERLINE
	WUS	SURVEYED WATERS OF THE US
	WL	SURVEYED WETLAND
	WB	25' WETLAND BUFFER
	LoB	SOIL BOUNDARY
	WcB	HYDROLOGIC SOIL GROUP
	Di	HIGHLY ERODIBLE SOILS (>5% SLOPES AND K>0.35)
		HIGHLY ERODIBLE SOILS (>15% SLOPES)
		STEEP (>20%) SLOPES
		TREE REMOVAL
		RIFFLE GRADE CONTROL
		BOULDER CASCADE
		ROCK SILL
		IMBRICATED WALL/BANK PROTECTION
		SHREDDED HARDWOOD BARK ACCESS ROAD
		EXISTING ACCESS ROAD
		ACCESS ROAD WITH CELLULAR CONFINEMENT LOAD SUPPORT
		STOCKPILE/STAGING AREA
		RIPRAP
		AQUATIC BENCH
		NO WOODY VEGETATION AREA
	TPF	TREE PROTECTION FENCE
	LOD	LIMIT OF DISTURBANCE
	450	PROPOSED MAJOR CONTOURS
	449	PROPOSED MINOR CONTOURS
		PROPOSED STORM DRAIN
		PROPOSED MANHOLE/DROP STRUCTURE
	SS	PROPOSED SANITARY SEWER AND MANHOLE
	SB	STREAM BUFFER

Approvals/Permits			
Agency	Permit #	Date Applied	Date Approved
MDE Wetlands/Waterway Authorization	21-NT-3137	7/13/2021	
Howard Soil Conservation District	EP-19-37	5/14/2019	
Howard County DPZ Alternative Compliance	TBD		
MDE General Discharge Permit	TBD		

DEPARTMENT OF RECREATION AND PARKS, HOWARD COUNTY, MD	
DEPARTMENT OF RECREATION AND PARKS	DATE
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS	
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT	
HOWARD SOIL CONSERVATION DISTRICT	

DESIGN CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS. THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENT OF THE HOWARD SOIL CONSERVATION DISTRICT.

DESIGNERS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

PRINTED NAME \_\_\_\_\_ MD REGISTRATION NO. \_\_\_\_\_  
P.E., R.L.S. OR R.L.A.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. XXXXXX, EXPIRATION DATE: XXX/XXX

OWNERS/DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ANY CLEARING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVE EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THAT CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION PRIOR TO THE BEGINNING OF THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE."

OWNER/DEVELOPER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	
DIRECTOR OF PUBLIC WORKS	DATE
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES	DATE
CHIEF, STORMWATER MANAGEMENT DIVISION	DATE

PREPARED BY:

a joint venture

6110 FROST PLACE  
LAUREL, MD 20707  
TEL. 301.982.2800  
FAX. 301.220.2819  
www.stantec.com

10245 OLD COLUMBIA ROAD  
COLUMBIA, MD 21046  
TEL. 301.362.9200  
FAX. 301.362.9245  
info@straughanenvironmental.com

HOWARD COUNTY  
MARYLAND

STORMWATER MANAGEMENT DIVISION  
BUREAU OF ENVIRONMENTAL SERVICES  
HOWARD COUNTY GOVERNMENT  
9801 BROKEN LAND PARKWAY  
COLUMBIA, MD 21046  
(410) 313-6444

BY	NO.	REVISIONS	DATE	ADVERTISED DATE <u>XX/XX/XX</u>
				CONTRACT NO. <u>X-XX-XXX</u>
				SCALE <u>AS SHOWN</u>
				DESIGNED BY <u>AS/JC/CB/PC</u>
				DRAWN BY <u>AS/JC/CB/PC</u>
				CHECKED BY <u>SS</u>
				DATE: 1/07/22 SHEET NO. 01 OF 68

SOUTH MEADOW COURT POND  
RETROFIT AND STREAM  
RESTORATION PROJECT  
CAPITAL PROJECT D-1159

TITLE SHEET

ELECTION DISTRICT NO. 02, HOWARD CO., MD TAX MAP 34 GRID NO. 0060

# HOWARD COUNTY

Capital Project #D-1159

## South Meadow Court Pond Retrofit and Stream Restoration

STORMWATER MANAGMENT DIVISION  
BUREAU OF ENVIRONMENTAL SERVICES

NOT FOR CONSTRUCTION

90% SUBMITTAL

JANUARY 7, 2022

### DESIGN NARRATIVE

THE EXISTING SOUTH MEADOW COURT STORMWATER MANAGEMENT POND IS NOT CURRENTLY FUNCTIONING AS DESIGNED AND WOULD REQUIRE SIGNIFICANT UPGRADES TO BE MD CODE 378 COMPLIANT. HOWEVER, HOWARD COUNTY HAS OPTED TO DECOMMISSION THE SWM POND. THE STANTEC / STRAUGHAN JOINT VENTURE (JV TEAM) HAS BEEN TASKED WITH PROVIDING A DESIGN FOR THE DECOMMISSIONING OF THE SWM POND. AS PART OF THE DECOMMISSIONING, 700 LF OF STREAM FROM THE DITCH UPSTREAM FROM THE SWM POND THROUGH THE DOWNSTREAM END OF THE OUTFALL CHANNEL WILL BE RESTORED AND STABILIZED. THE JV TEAM WILL ALSO RESTORE 200 LF OF THE TRIBUTARY THAT RECEIVES THE OUTFALL CHANNEL. LASTLY, THE JV TEAM WILL PREPARE A RETROFIT DESIGN FOR THE EXISTING SEDIMENT BASIN BETWEEN THE SWM POND AND CENTENNIAL LAKE. IDENTIFIED HEREIN AS THE RETROFIT POND. THE RETROFIT POND WILL PROVIDE QUALITATIVE AND QUANTITATIVE WATER QUALITY TREATMENT FOR ITS CONTRIBUTING DRAINAGE AREA AND REDUCE EROSION IN THE OUTFALL CHANNEL BETWEEN THE EXISTING SEDIMENT BASIN AND CENTENNIAL LAKE. AN EXISTING SEWER LINE IS PROPOSED TO BE RELOCATED AND RETROFIT TO AVOID CONFLICTS WITH THE RETROFIT POND AND APPURTENANCES.

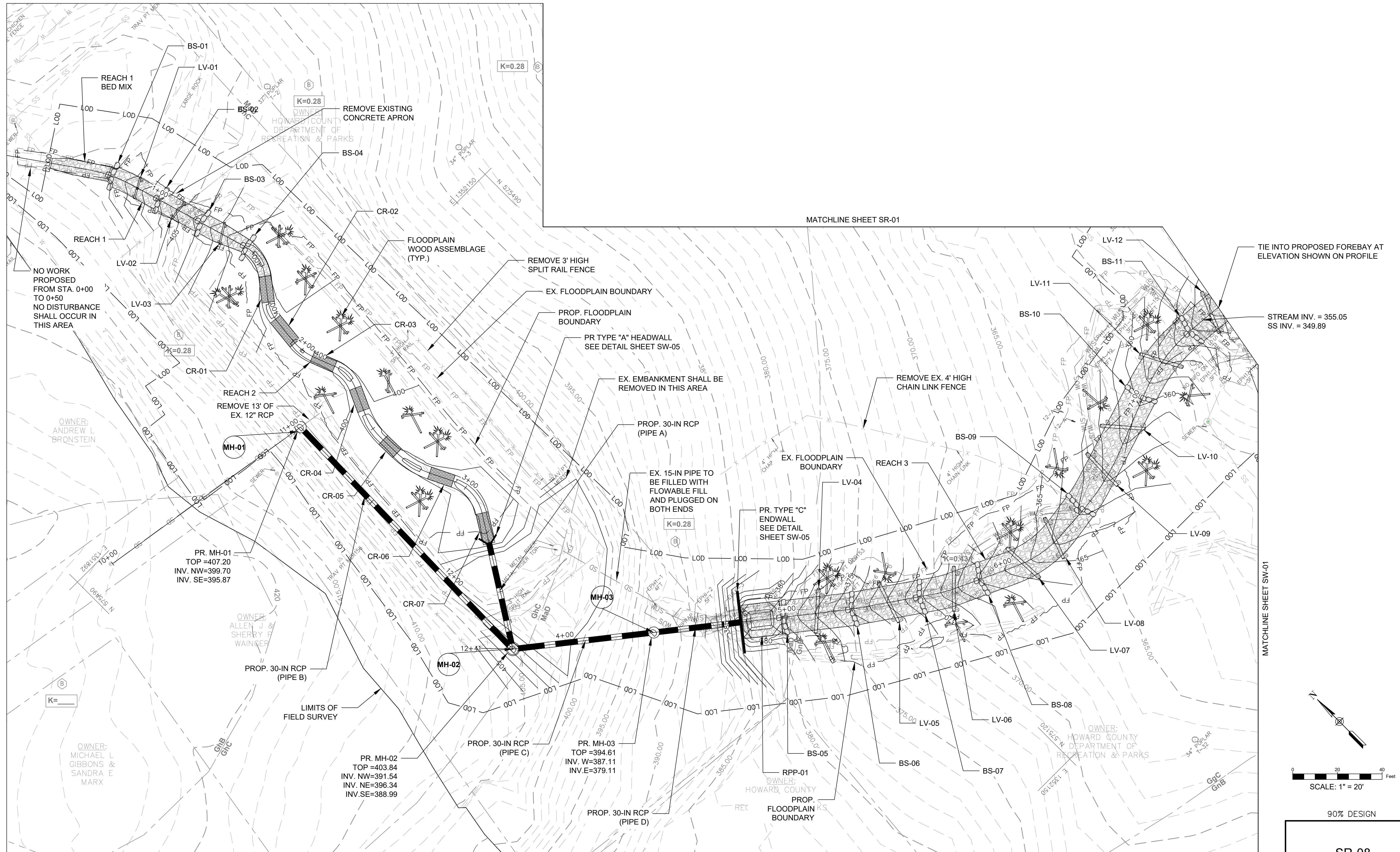
### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MDOT SHA IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY WORK BEING DONE.
- THIS PLAN IS PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF ANY WORK.
- SURVEY OF THIS SITE WAS PERFORMED BY MERCADO CONSULTANTS (MERCADO) IN AUGUST 2019.
- THE COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. BENCHMARKS SHOWN HEREON WERE PROVIDED BY MERCADO.
- WETLANDS AND WATERS OF THE US WERE DELINEATED BY THE JOINT VENTURE TEAM IN JULY 2019.
- OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND MERCADO OR THE JOINT VENTURE TEAM DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY SUCH INFORMATION ON ITS OWN.
- THE EXISTING INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM THE BEST AVAILABLE SOURCES AND SHALL BE VERIFIED BEFORE STARTING CONSTRUCTION. HOWARD COUNTY DOES NOT GUARANTEE THE COMPLETENESS OR CORRECTNESS OF THE SHOWN INFORMATION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY. ALL UTILITIES SHALL HAVE A CLEARANCE BY A MINIMUM OF SIX (6) INCHES VERTICALLY AND A MINIMUM OF FIVE (5) FEET HORIZONTALLY. PLEASE NOTE THAT MORE RESTRICTIVE CLEARANCES SHALL BE ADHERED TO WHEN APPROPRIATE.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE DESIGNER IMMEDIATELY TO RESOLVE THE SITUATION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- THE JOINT PERMIT APPLICATION PRE-APPLICATION TRACKING NUMBER FOR THE PROJECT IS AI 166502.
- PROJECT IMPACTS INCLUDE WORK IN A USE IV-P STREAM. WORK MAY NOT BE CONDUCTED DURING THE PERIOD FROM MARCH 1 AND MAY 31, INCLUSIVE OF ANY YEAR, WITHOUT SPECIAL APPROVAL THROUGH THE APPROPRIATE AGENCIES.
- THE SITE IS LOCATED IN THE LITTLE PATUXENT RIVER WATERSHED. THIS PORTION OF THE WATERSHED IS IMPAIRED BY UNKNOWN BIOLOGICAL CONTAMINANTS, ZINC, NITROGEN, PHOSPHORUS, AND TOTAL SUSPENDED SOLIDS. THE RECEIVING WATERS ARE NOT CLASSIFIED UNDER TIER II HIGH QUALITY WATERS.
- FEMA FIRM PANEL NO 24027C0160D. THERE IS NO FEMA REGULATED FLOODPLAIN LOCATED WITHIN THE PROJECT BOUNDARY.
- CONTRACTOR SHALL CONTINUOUSLY MONITOR FORECASTS DURING WORK ACTIVITIES AND SCHEDULE WORK DURING FAVORABLE CONDITIONS.
- THE CONTRACTOR SHALL EXERCISE CARE IN ACTIVITIES INVOLVING EITHER CUT AND FILL OR GRADING IN THE VICINITY OF TREES THAT ARE TO REMAIN. ACTIVITIES NEAR TREES THAT ARE TO REMAIN SHALL BE DONE IN A MANNER THAT DOES NOT DISTURB THE CRITICAL ROOT ZONE OR WITHIN THE DRIPLINE OF THE TREES. ORANGE FENCING SHALL BE INSTALLED AROUND THE PERIMETER OF THE CRITICAL ROOT ZONE PRIOR TO CONSTRUCTION. THE LOCATION OF THE PROTECTIVE ORANGE FENCE SHALL BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOT STORE EQUIPMENT, MATERIALS, AND/OR SUPPLIES BEYOND THE ORANGE FENCING SHOWN ON THE PLANS.
- UPON COMPLETION OF WORK BUT PRIOR TO DE-MOBILIZATION, THE CONTRACTOR SHALL REMOVE REMNANTS OF CONSTRUCTION MATERIAL FROM THE SITE. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITIONS.
- PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, PHOTOGRAPHS OF THE PROPOSED WORK AREA AND ACCESS SHALL BE TAKEN.
- ALL MATERIAL SHALL BE REMOVED AND DISPOSED OF OFFSITE. REMOVED TREES AND BRUSH MAY BE REDISTRIBUTED ON SITE AT THE DISCRETION OF THE ENGINEER OR HIS/HER REPRESENTATIVE.
- THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXITING THE PROJECT SITE AND PAY CLOSE ATTENTION TO TRAFFIC NEAR THE SITE.
- WORKING HOURS ARE 7 A.M. TO 5 P.M. MONDAY THROUGH FRIDAY, WITH ADVANCED PERMISSION FROM THE COUNTY. CONTRACTORS MAY WORK ON WEEKENDS 9 A.M. TO 3 P.M. NO WORK IS ALLOWED ON SUNDAY.
- THE CONTRACTOR SHALL AVOID TRACKING HEAVY EQUIPMENT OVER CRITICAL ROOT ZONE OF SPECIMEN TREES. IF UNAVOIDABLE, LOAD MATS SHOULD BE USED WHEN TRACKING OVER THE CRITICAL ROOT ZONES.
- A WAIVER PETITION SHALL BE SUBMITTED TO THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING FOR THIS PROJECT.
- THE DEPARTMENT OF PUBLIC WORKS HAS DETERMINED THAT THE DISTURBANCE OF WETLANDS, STREAMS, BUFFERS, AND STEEP SLOPES FOR THIS PROJECT ARE CONSIDERED ESSENTIAL OR NECESSARY IN ACCORDANCE WITH SECTION 16.115(c) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEPARTMENT OF PLANNING AND ZONING APPROVED THE NECESSARY DISTURBANCE OF XXXX (DATE).




90% DESIGN

TI-01

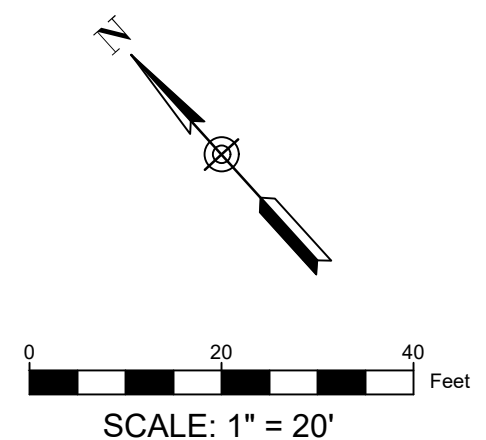
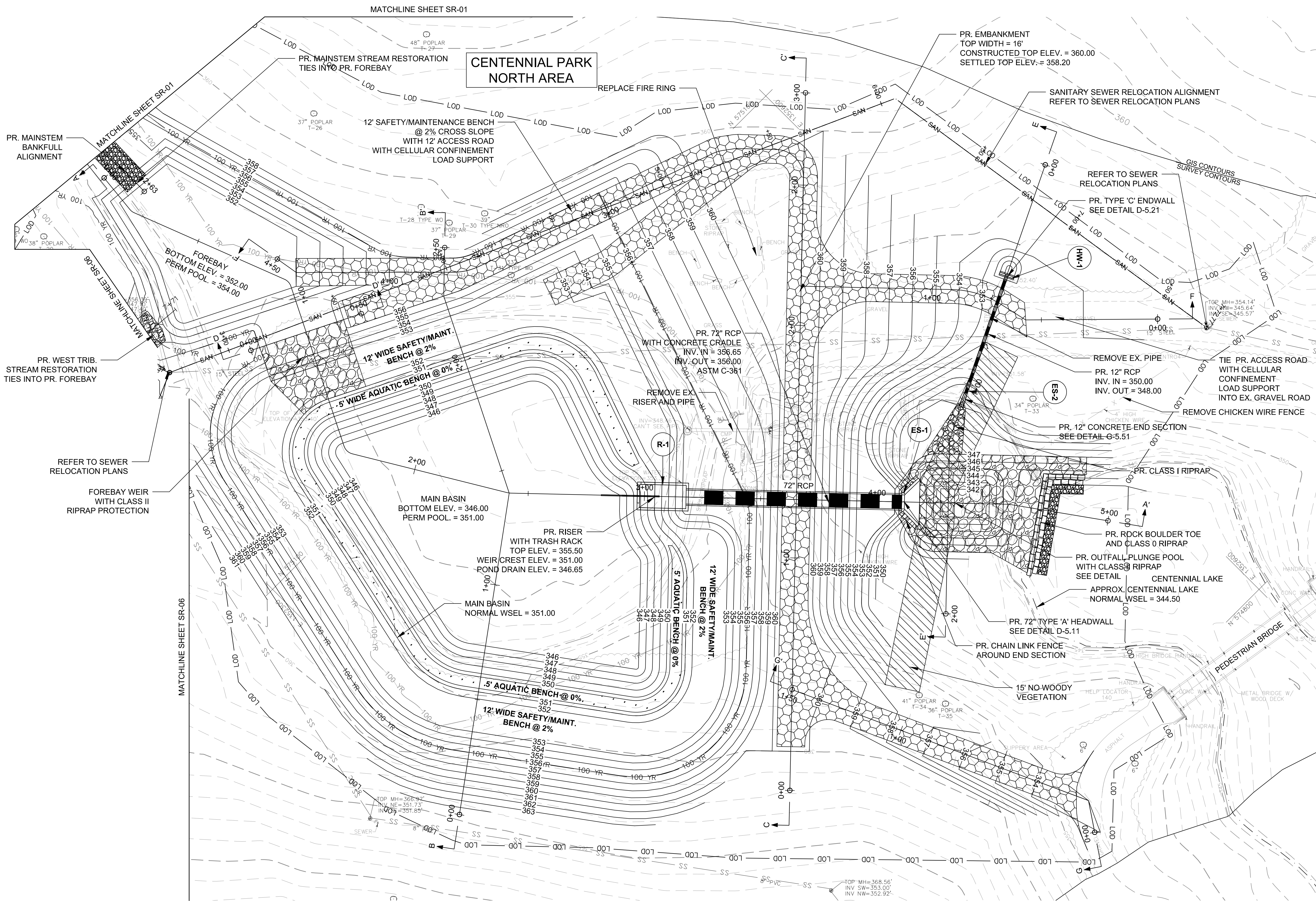




SR-08




DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	PREPARED BY: <div> </div> <div>a joint venture</div> <div>6110 FROST PLACE LAUREL, MD 20707 TEL. 301.982.2800 FAX. 301.220.2819 www.stantec.com</div> <div>10245 OLD COLUMBIA ROAD COLUMBIA, MD 21046 TEL. 301.362.9200 FAX. 301.362.9245 info@straughanenvironmental.com</div>	<div></div> <div>STORMWATER MANAGEMENT DIVISION BUREAU OF ENVIRONMENTAL SERVICES HOWARD COUNTY GOVERNMENT 9801 BROKEN LAND PARKWAY COLUMBIA, MD 21046 (410) 313-0522</div>	BY	NO.	REVISIONS	DATE	ADVERTISED DATE <u>XX/XX/XX</u>	SOUTH MEADOW COURT POND RETROFIT AND STREAM RESTORATION PROJECT CAPITAL PROJECT D-1159  WESTERN TRIBUTARY PLAN  ELECTION DISTRICT NO. 02, HOWARD CO. MD TAX MAP 34 GRID NO. 0060
							CONTRACT NO. <u>X-XX-XXX</u>	
							SCALE <u>1"=20'</u>	
							DESIGNED BY <u>JC</u>	
							DRAWN BY <u>CC/JC</u> CHECKED BY <u>GB/SS</u>	
----- CHIEF, STORMWATER MANAGEMENT DIVISION		DATE					DATE 01/07/22 SHEET NO. 24 OF 68	








90% DESIGN

SW-01

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		PREPARED BY:   a joint venture		 STORMWATER MANAGEMENT DIVISION BUREAU OF ENVIRONMENTAL SERVICES HOWARD COUNTY GOVERNMENT 9801 BROKEN LAND PARKWAY COLUMBIA, MD 21046 (410) 313-6444		BY NO. REVISIONS		DATE	ADVERTISED DATE <u>XX/XX/XX</u>	SOUTH MEADOW COURT POND RETROFIT AND STREAM RESTORATION PROJECT CAPITAL PROJECT D-1159  SEDIMENT BASIN RETROFIT PLAN  ELECTION DISTRICT NO. 02, HOWARD CO. MD TAX MAP 34 GRID NO. 0060
CHIEF, STORMWATER MANAGEMENT DIVISION		6110 FROST PLACE LAUREL, MD 20707 TEL. 301.982.2800 FAX. 301.220.2819 www.stantec.com		10245 OLD COLUMBIA ROAD COLUMBIA, MD 21046 TEL. 301.362.9200 FAX. 301.362.9245 info@straughanenvironmental.com					CONTRACT NO. <u>X-XX-XXX</u>	
DATE									SCALE <u>1"=20'</u>	
									DESIGNED BY <u>AS/CB</u>	
									DRAWN BY <u>AS/CB</u>	
									CHECKED BY <u>SS</u>	
									DATE. 1/07/22 SHEET NO. 10 OF 68	

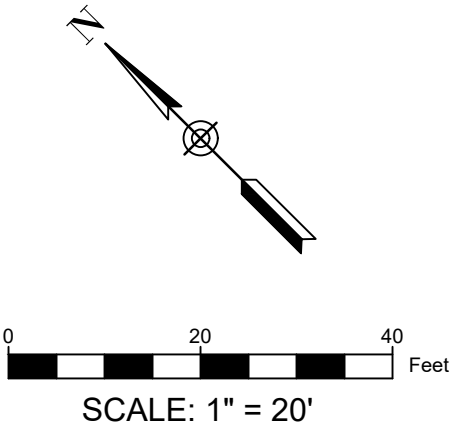


LEGEND

-  RIFFLE
-  WETLAND DEPRESSION
-  WOODY DEBRIS

OWNER:  
HOWARD COUNTY  
DEPARTMENT OF  
RECREATION & PARKS

OWNER:  
HOWARD COUNTY  
DEPARTMENT OF  
RECREATION & PARKS



90% DESIGN

SR-01

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

PREPARED BY:



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STORMWATER MANAGEMENT DIVISION  
BUREAU OF ENVIRONMENTAL SERVICES  
HOWARD COUNTY GOVERNMENT  
9801 BROKEN LAND PARKWAY  
COLUMBIA, MD 21046  
(410) 313-6444

BY	NO.	REVISIONS	DATE	ADVERTISED DATE <u>XX/XX/XX</u>
				CONTRACT NO. <u>X-XX-XXX</u>
				SCALE <u>1"=20'</u>
				DESIGNED BY <u>PC</u>
				DRAWN BY <u>PC/AS</u>
				CHECKED BY <u>SS</u>
				DATE: 1/07/22 SHEET NO. 19 OF 68

SOUTH MEADOW COURT POND  
RETROFIT AND STREAM  
RESTORATION PROJECT  
CAPITAL PROJECT D-1159

MAINSTEM STREAM RESTORATION  
GRADING PLAN

ELECTION DISTRICT NO. 02, HOWARD CO. MD TAX MAP 34 GRID NO. 0060

CHIEF, STORMWATER MANAGEMENT DIVISION

DATE