



U.S. Army Corps  
of Engineers  
Baltimore District  
PN 20-06

# Public Notice

In Reply to Application Number:  
NAB-2019-61334-M15 (RES BMP 030269/TMDL/Bay Fund)

Comment Period: February 4, 2020 to February 20, 2020

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**THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC ABOUT THE WORK DESCRIBED BELOW ON THE SUBJECT APPLICATION. AT THIS TIME, NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED.**

**APPLICANT:** Resource Environmental Solutions  
Attn: Ms. Jennifer Hatchett  
1408 B Roseneath Road  
Richmond, VA 23230

**WATERWAY AND LOCATION OF THE PROPOSED WORK:** The proposed project is located in an unnamed tributary impoundment of Gwynns Falls in Owings Mills, Baltimore County, Maryland.

**OVERALL PROJECT PURPOSE:** To retrofit an existing online Maryland Department of Transportation State Highway Administration stormwater management facility, BMP 030269, in an unnamed tributary to Gwynns Falls, Owings Mills, Maryland.

**PROPOSED WORK:** For the purposes of meeting State Highway Administration's Chesapeake Bay Total Maximum Daily Load nutrient and sediment target goal reductions, Resource Environmental Solutions proposes to change BMP 030269 from a dry detention pond to an extended wet detention pond. The proposed retrofit includes the installation of a new riser structure with a Real Time Control and the abandonment of the existing stone filled wire basket (outfall) structure; removing the existing inlet and storm drain and installing a new rip-rap channel; excavating a new sediment forebay and permanent pool area; and, grading a new ditch and existing ditches around the pond bottom and grading the new riser. The proposed work will permanently impact approximately 42 linear feet (811 square feet) of perennial stream, 173,519 square feet of open water, 1,423 square feet of forested nontidal wetlands, and 890 square feet of emergent nontidal wetlands. The work will also temporarily impact approximately 229 linear feet (3,368 square feet) of perennial stream, 41 linear feet (388 square feet) of ephemeral stream, and 25,268 square feet of emergent nontidal wetlands. The on-line stormwater management pond is located approximately 1.5 miles north of the I-695 and I-795 intersection in Owings Mills, Baltimore County, Maryland.

All work will be completed in accordance with the enclosed plans submitted with the Joint Permit Application.

**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.

If you have any questions concerning this matter, please contact Mr. Jack Dinne, at (410) 962-6005 or e-mail at [john.j.dinne@usace.army.mil](mailto:john.j.dinne@usace.army.mil).

**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 may reasonably 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 the work described above on the public interest will include the application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 of the Clean Water Act.

**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 not affect federal 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.

The applicant must obtain any other state and local permits/approvals which are required for the proposed activities.

**HISTORIC RESOURCES:** The lead federal agency is responsible for historic resources coordination. 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 the proposed project will not affect properties listed as eligible for inclusion. 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. 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.

**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 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 2019-61334.

**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 state forth the interest which may be adversely affected by this activity in the manner in which the interest may be adversely affected. The public hearing request may be submitted by electronic mail or regular mail to the following address:

U.S. Army Corps of Engineers  
Baltimore District  
Attn: Mr. Jack Dinne-Regulatory  
2 Hopkins Plaza  
Baltimore, Maryland 21201  
or e-mail: john.j.dinne@usace.army.mil.

It is requested that you communicate this information concerning the proposed work to any persons known by you to be interested, but may not have not received a copy of this public notice.

If you have any questions concerning this specific project, or would like to request a paper copy of this public notice, please contact Mr. Jack Dinne, at (410) 962-6005 or e-mail at john.j.dinne@usace.army.mil.

This public notice is issued by the Chief, Regulatory Branch.



WET-1 (PFO)

WET-2 (PEM)

POND-1 (PUB)  
BMP 030269

WUS-1 (PER)

WET-2 (PEM)

WUS-2 (EPH)

WUS-3 (EPH)

GREEN VALLEY LN

I-795 SB

I-795 NB

HAMLET COMMUNITY ASSOCIATION  
LIBER 8153, FOLIO 616  
PB 55, PG 58

HAMLET COMMUNITY ASSOCIATION  
LIBER 8153, FOLIO 616  
PB 57, PG 138

MCDONOUGH TOWNSHIP  
SECTIONS 1, 2, 3, & 4  
LIBER 8549, FOLIO 250  
PB 55, PG 147

DEBRÁ DAUER  
LIBER 41223, FOLIO 132  
PB 18, PG 98

DANIEL BRADFORD  
LIBER 37685, FOLIO 266  
PB 16, PG 98

PLAN VIEW



**MOT** MARYLAND DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

707 NORTH CALVERT ST.  
BALTIMORE, MARYLAND 21202

CONTRACT NO.: AX7665D82

COUNTY: BALTIMORE

STATE: MARYLAND

APPLICATION BY: RES

WETLAND PLATE NUMBER: 01

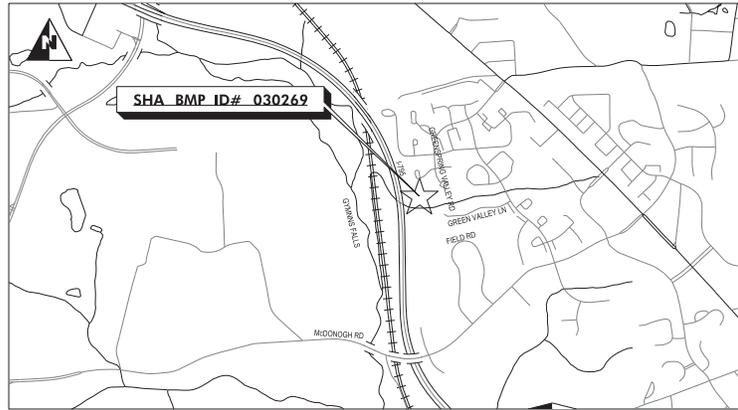
SHEET 04 OF 04

DATE: 01/20

REVISION:

**MDOT** MARYLAND DEPARTMENT OF TRANSPORTATION  
**STATE HIGHWAY ADMINISTRATION**

**AREAWIDE TMDL DESIGN BUILD, AX7665D82  
 STORMWATER BMP 030269 RETROFIT  
 CONCEPT SUBMITTAL**



BALTIMORE COUNTY

HORIZONTAL DATUM	NAD 83 (9)
VERTICAL DATUM	NAVD 88



**INDEX OF SHEETS**

SHT. NO.	DWG. NO.	DESCRIPTION
SHT 1	TS-01	TITLE SHEET
SHT 2	ON-01	NOTES AND ABBREVIATIONS SHEETS
SHT 3	SW-01	STORMWATER MANAGEMENT PLAN
SHT 4	SW-02	STORMWATER MANAGEMENT PROFILE/DETAIL
SHT 5	ES-01	EROSION AND SEDIMENT CONTROL GENERAL NOTES
SHT 6	ES-02	EROSION AND SEDIMENT CONTROL PLAN

SURVEY BOOK NUMBERS	RIGHT OF WAY PLAT NUMBERS	REVISIONS
		NOTE: SEE SHEET NO. FOR LIST OF REVISION SHEET NUMBERS
-	-	TENTATIVE MAY 16, 2019
-	-	THIS DOCUMENT IS A PLAN DRAFT AND SUBJECT TO CHANGE. IT IS AN INTERIM DOCUMENT AND IS NOT FOR PUBLIC CIRCULATION UNDER MD GENERAL PROVISIONS CODE AND STATE MARYLAND PUBLIC INFORMATION ACT.



WSP USA, INC.  
 EAST FRONT STREET SUITE 300  
 BALTIMORE, MD 21202  
 (410) 727-6600

MD LICENSE NO. \_\_\_\_\_  
 EXPIRATION DATE: \_\_\_\_\_

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A BOB LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

**GEOMETRIC DESIGN CRITERIA**  
 THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE 2011 PUBLICATION OF AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS TITLED "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS".  
**STANDARD SPECIFICATIONS BOOK, BOOK OF STANDARDS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)**  
 ALL WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST APPROVED MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" REVISIONS THEREOF OR ADDITIONS THERETO AS INDICATED IN THE PROJECT DESCRIPTION OF THE INVITATION FOR BIDS BOOK. THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS BOOK, THE ADMINISTRATION'S "BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES" AND THE LATEST ADOPTED MUTCD.  
**RIGHT OF WAY**  
 RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT OFFICIAL. FOR OFFICIAL FEE, RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPROPRIATE RIGHT OF WAY PLATS.  
**UTILITIES**  
 THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SHD LOCATIONS.  
**ENVIRONMENTAL INFORMATION**  
 ALL STORMWATER MANAGEMENT FACILITIES CONSTRUCTED FOR THIS CONTRACT SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MDOT SHA BEST MANAGEMENT PRACTICES (BMP) INSPECTION AND REMEDIATION PROGRAM.  
**STANDARD STABILIZATION NOTE:**  
 FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DICES, SWALES, DITCHES PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL FOR AND SEVEN (7) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.  
**OWNERS / DEVELOPERS CERTIFICATION:**  
 I, THE UNDERSIGNED, CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THE PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY MDE COMPLIANCE INSPECTORS.  
**EXISTING STRUCTURES PLANS**  
 FOR THE CONVENIENCE AND INFORMATION OF BIDDERS, PRINTS OF PLANS OF EXISTING PERIMETER STRUCTURES ARE INCLUDED WITH THIS CONTRACT. NO RESPONSIBILITY FOR THEIR ACCURACY OR COMPLETENESS IS ASSUMED BY THE MDOT SHA. DIMENSIONS, DETAILS, ETC. AS SHOWN THEREON MAY NOT BE AS BUILT.

STORMWATER AND SEDIMENT CONTROL FINAL APPROVAL	MODIFICATIONS
APPROVED _____ DATE _____ DIVISION CHIEF, PLAN REVIEW DIVISION PRD NO. <u>18P65-00016-04</u> EXPIRATION DATE: _____	
APPROVED _____ DATE _____ DISTRICT ENGINEER, DISTRICT _____	
APPROVED _____ DATE _____ DIRECTOR, OFFICE OF HIGHWAY DEVELOPMENT	
APPROVED _____ DATE _____ DEPUTY ADMINISTRATOR / CHIEF ENGINEER FOR PLANNING, ENGINEERING, REAL ESTATE AND ENVIRONMENT	
STRUCTURE INVENTORY NO.:	CONTRACT NO.:

BMP#\_030269\_01\_CON-7000\_AX7665D82.dgn  
 Thursday, May 9, 2019 at 5:25:01 PM

DRILL HOLES

## GENERAL NOTES

### FACILITY INFORMATION

EXISTING FACILITY TYPE = EXTENDED DETENTION POND  
 PROPOSED FACILITY TYPE = EXTENDED DETENTION WET POND  
**GENERAL PLAN SHEET NOTES**

1. THE BASE MAPPING USED TO CREATE THESE CONCEPT PLANS WAS DEVELOPED USING GIS DATA AND AERIAL IMAGERY SUPPLIED BY SHA. THE BASE MAPPING WILL BE REPLACED WITH TOPOGRAPHIC SURVEY RIGHT-OF-WAY DETERMINATIONS AND UTILITY DEVIATION FROM TO SITE DEVELOPMENT SUBMITTAL.
2. CONVEYANCE ITEMS PERTINENT TO THE SITE HAVE BEEN FIELD VERIFIED.
3. THERE ARE NO 100-YEAR FLOODPLAINS LOCATED WITHIN THE PROPOSED LIMITS OF DISTURBANCE.

## ABBREVIATIONS

AASHTO ..... American Association of State Highway  
 Transportation Officials  
 ADT ..... Average Daily Traffic  
 AHD ..... Ahead  
 APPROX ..... Approximate  
 B or BH ..... Baseline  
 BK ..... Back / Book  
 BF ..... Blumfinous  
 B.C. .... Blumfinous Concrete  
 BM ..... Bench Mark  
 BOT ..... Bottom  
 C.C. .... Center of Curve  
 CAP ..... Corrugated Aluminum Pipe  
 CAPA ..... Corrugated Aluminum Pipe Arch  
 CATV ..... Cable Television  
 C.B.L. .... California Bearing Ratio  
 C or CL ..... Centerline  
 CL ..... Class  
 CLF ..... Chain-Link Fence  
 CMP ..... Corrugated Metal Pipe  
 C.O. .... Cleanout  
 COMB ..... Combustion  
 CONC ..... Concrete  
 CONSTR ..... Construction  
 COR ..... Corner  
 CORR ..... Corrosion  
 CPPE ..... Corrugated Polyethylene Pipe - Type 'S'  
 CSP ..... Corrugated Steel Pipe - Aluminized Type 2  
 CSPA ..... Corrugated Steel Pipe Arch -  
 Aluminized Type 2  
 DC ..... Degree of Curve  
 D.H.V. .... Design Hourly Volume  
 D.I. .... Drop Inlet  
 DIA ..... Diameter  
 D.O. .... Double Opening  
 E ..... East  
 E ..... Electric  
 E ..... External Distance  
 EA ..... Each  
 EB ..... Eastbound  
 ELEV ..... Elevation  
 ES ..... End Section  
 EX or EXIST ..... Existing  
 FT ..... Feet  
 F or FL ..... Flowline  
 F.B.D. .... Flat Bottom Ditch  
 F.H. .... Fire Hydrant  
 FWD ..... Forward  
 G ..... Gas  
 G.V. .... Gas Valve  
 H.B. .... Handbox  
 HDPE ..... High Density Polyethylene

HDWL ..... Headwall  
 HERCP ..... Horizontal Reinforced  
 Concrete Pipe  
 HP ..... High Point  
 IN ..... Inch  
 IS.T. .... Inlet Sediment Trap  
 INV ..... Invert  
 J.B. .... Junction Box  
 K ..... K Inlet  
 L ..... Length  
 LF ..... Linear Feet  
 L.L. .... Liquid Limit  
 LP ..... Low Point  
 LP ..... Light Pole  
 LT ..... Left  
 MAC ..... Macadam  
 MC ..... Moisture Content  
 MAX ..... Maximum  
 M.D. .... Maximum Dry Content  
 MOD ..... Modified  
 MIN ..... Minimum  
 N ..... North  
 NB ..... Northbound  
 NE ..... Northeast  
 N.P. .... Non-Perforated  
 O.C. .... On Center  
 OHE ..... Overhead Electric  
 O.M. .... Optimum Moisture  
 PAV ..... Pavement  
 PC ..... Point of Curvature  
 PCC ..... Point of Compound Curvature  
 PC ..... Point of Crown  
 PGE ..... Profile Grade Elevation  
 P.G.E. .... Profile Ground Elevation  
 P.G.L. .... Profile Grade Line  
 P.G.L. .... Profile Ground Line  
 PR ..... Point of Rotation  
 P.I. .... Ripability Index  
 PI ..... Point of Intersection  
 POC ..... Point of Curve  
 POT ..... Point On Tangent  
 PPWP ..... Polywaxy Chloride Profile Wall Pipe  
 PROP ..... Proposed  
 PRC ..... Point of Reverse Curve  
 PT ..... Point  
 PT ..... Point of Tangency  
 PVC ..... Point of Vertical Curve  
 PVC ..... Polyvinyl Chloride  
 PVI ..... Point of Vertical Intersection  
 P.V.C. .... Point of Vertical Curve  
 P.V.T. .... Point of Vertical Tangency  
 R ..... Radius  
 RF ..... Rock Fragments  
 RT ..... Right  
 RTC ..... Real Time Control

RW or RW ..... Right of Way  
 RCP ..... Reinforced Concrete Pipe  
 RCP ..... Reinforced Concrete Pressure Pipe  
 R.Q.D. .... Rock Quality Designation  
 RM ..... Roadmat  
 S ..... South  
 SAN ..... Sanitary Sewer  
 SB or SB ..... Southbound  
 S.D. .... Storm Drain  
 S.D.D. .... Surface Drain Ditch  
 SE ..... Super Elevation  
 SF ..... Silt Fence  
 SF ..... Square Feet  
 SHT ..... Sheet  
 SPP ..... Structural Steel Plate Pipe  
 SPPA ..... Structural Steel Plate Pipe Arch  
 SPT ..... Standard Penetration Testing  
 SRP ..... Steel Spiral Rib Pipe -  
 Aluminized Type 2  
 SRPA ..... Steel Spiral Rib Pipe Arch -  
 Aluminized Type 2  
 SSD ..... Stopping Sight Distance  
 SSF ..... Super Silt Fence  
 STD ..... Standard  
 STA ..... Station  
 SO ..... Single Opening  
 SY ..... Square Yards  
 SWM ..... Stormwater Management  
 T ..... Tangent  
 T ..... Telephone  
 T.C. .... Top of Cover  
 T.G. .... Top of Grade  
 T or TL ..... Traverse Line  
 T.M. .... Top of Manhole  
 TRAV ..... Traverse  
 TS ..... Temporary Swale  
 T.S. .... Top of Slab  
 T.S. .... Topsoil  
 TYP ..... Typical  
 U.D. .... Under Drain  
 U.G. .... Underground  
 U.P. .... Utility Pole  
 USDA ..... United States Department  
 of Agriculture  
 VCL ..... Vertical Clearance  
 V.C.L. .... Vertical Curve Length  
 W ..... Water  
 W ..... West  
 WB ..... Wetland Buffer  
 WM ..... Water Meter  
 W.S. .... Wrapped Steel  
 WUS ..... Waters of the United States  
 W.V. .... Water Valve

## SWM PLAN LEGEND

- EXISTING CONTOUR
- EXISTING STORM DRAIN
- (MH) EXISTING MANHOLE
- EXISTING HEADWALL/ ENDWALL
- EXISTING CONCRETE CHANNEL
- EXISTING DITCH
- EXISTING INLET/PIER
- PROPOSED INLET/PIER
- PROPOSED CONTOUR
- LIMIT OF DISTURBANCE
- SHA RIGHT OF WAY
- MAINTENANCE ACCESS ROAD
- VEGETATION CLEARING AREA
- CLASS ROCK RIPRAP
- PROPOSED DITCH

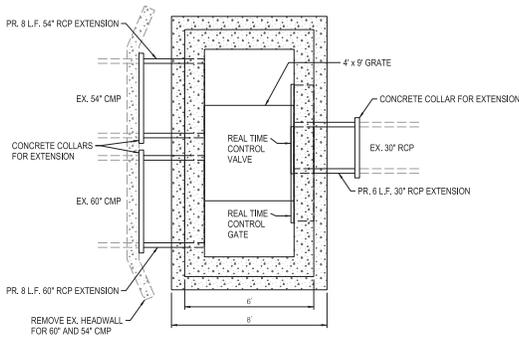
**M.D.T.** MARYLAND DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 AREAWIDE TMDL DESIGN BUILD A0766SD02  
 STORMWATER BMP RETROFIT PACKAGE B  
 CONCEPT SUBMITTAL  
**BMP 030269**

REVISIONS	NOTES AND ABBREVIATIONS SHEET
TENTATIVE MAY 16, 2019	SCALE: N.T.S. DATE: MAY 16, 2019 CONTRACT NO.: 037026902
DESIGNED BY: S.W.	COUNTY: BALTIMORE
CHECKED BY: J.W.	LOGSCALE
REV. PROJ.: JEROME/CAL	HORIZONTAL SCALE
	VERTICAL SCALE
THIS DOCUMENT IS A DRAFT AND SUBJECT TO CHANGE. IT IS NOT TO BE USED FOR CONSTRUCTION. IT IS THE PROPERTY OF MARYLAND PUBLIC INFRASTRUCTURE AND GENERAL PROGRAMS (GIP) AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF MARYLAND PUBLIC INFRASTRUCTURE AND GENERAL PROGRAMS (GIP).	DRAWING: NCL <b>GN-01</b> OF <b>01</b> SHEET NCL 02 OF 02

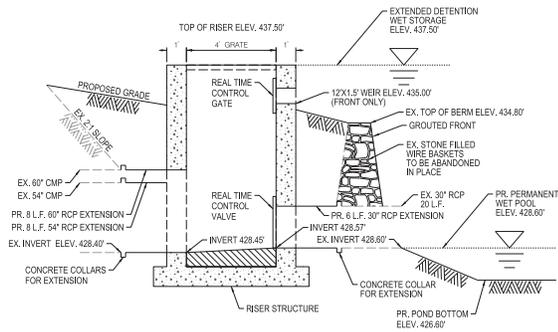
**WSP**  
 WSP USA Inc  
 1 EAST PRATT STREET SUITE 300  
 BALTIMORE, MD 21202  
 (410) 723-5050

BY: WSP/04/21/2019

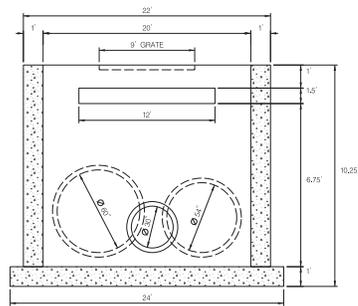




PLAN



LEFT SIDE



FRONT

PROPOSED RISER STRUCTURE DETAIL  
NOT TO SCALE

**MDOT** MARYLAND DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
BMP 030269

REVISIONS	SCALE	DATE	CONTRACT NO.
TENTATIVE MAY 16, 2019	SCALE	MAY 16, 2019	03026902
DESIGNED BY: S.W.	COUNTY	SUBDIVISION	
DRAWN BY: S.W.	COUNTY	LOGSCALE	
CHECKED BY: J.W.	COUNTY	HORIZONTAL SCALE	
INSP. BY: J.W.	COUNTY	VERTICAL SCALE	
DRAWING NO. SW-02		OF 02	SHEET NO. 04 OF 09

**wsp**  
WSP USA, Inc.  
1 EAST PRATT STREET SUITE 300  
BALTIMORE, MD 21202  
(410) 723-5050

THIS DOCUMENT IS PRELIMINARY AND SUBJECT TO CHANGE. IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THE ACCURACY OF THE INFORMATION FOR PUBLIC RELEASE UNDER THE GENERAL PROVISIONS OF THE MARYLAND PUBLIC INFORMATION ACT.

# EROSION AND SEDIMENT CONTROL – GENERAL NOTES

## 1. NOTIFICATION

NOTIFY THE REGIONAL ENVIRONMENTAL COORDINATOR BY PHONE AND/OR BY TELEPHONE AT 410-365-0044 PRIOR TO THE FOLLOWING POINTS:

- PRE-CONSTRUCTION MEETING
- EROSION AND SEDIMENT CONTROL MEETING (MINIMUM 7 WORKING DAYS PRIOR TO COMMENCING EARTH DISTURBING ACTIVITIES)
- UPON INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES
- INSTALLATION OF MAJOR SEDIMENT CONTROL BASINS/TRAPS
- REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURES
- REMOVAL OF ALL SEDIMENT CONTROL DEVICES
- FINAL ACCEPTANCE BY SHA

## 2. STANDARDS AND SPECIFICATIONS

CONSTRUCT THIS PLAN IN ACCORDANCE TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II AND THE MARYLAND DEPARTMENT OF ENVIRONMENT AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT REGULATIONS AND ALL REVISIONS THERE OF AND AS SPECIFIED. KEEP A COPY OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL ON THE SITE AT ALL TIMES. PERFORM VEGETATIVE STABILIZATION ACCORDING TO THOSE STANDARDS AND ACCORDING TO THE CONTRACT DOCUMENTS.

## 3. INGRESS / EGRESS CONTROLS

PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ON PUBLIC ROADS. MECHANICALLY REMOVE ALL MATERIALS DEPOSITED ON PUBLIC ROADS IMMEDIATELY. THE FLOWING OF ROAD SURFACES IS PROHIBITED.

THE LOCATIONS OF "STABILIZED CONSTRUCTION ENTRANCES" SHOWN ON THE PLAN ARE APPROXIMATE. DETERMINE THE EXACT LOCATION IN THE FIELD AND SUBMIT ACTUAL LOCATIONS FOR APPROVAL BY THE REGIONAL ENVIRONMENTAL COORDINATOR.

## 4. INSPECTION

INSPECT DAILY ALL EROSION AND SEDIMENT CONTROL MEASURES AND MAINTAIN THEM CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION UNTIL REMOVED UPON APPROVAL OF THE REC AND THE ENGINEER.

## 5. SHUTDOWNS / LIQUIDATED DAMAGES

TOTAL COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS EXPECTED AT ALL TIMES. IN CASES WHERE THE CONTRACTOR IS FOUND TO BE IN NON-COMPLIANCE, SHA MAY TAKE STEPS TO IMPOSE SELECTED OR TOTAL SHUTDOWNS AND IMPOSE LIQUIDATED DAMAGES FOR NON-COMPLIANCE.

THE DISTRICT ENGINEER CAN IMPOSE A TOTAL OR PARTIAL SHUTDOWN IF THE PROJECT MAY ADVERSELY IMPACT THE WATERS OF THE STATE.

## 6. RECORD KEEPING

THE PROJECT'S APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, APPROVED CHANGE REQUESTS, DAILY LOG BOOKS AND TEST REPORTS WILL BE AVAILABLE AT THE SITE FOR INSPECTION BY DAILY AUTHORIZED OFFICIALS.

## 7. DEWATERING PRACTICES

THE DEWATERING PRACTICES SHOWN ARE APPROXIMATE IN LOCATION AND SIZING. LOCATE, SIZE AND SUBMIT DEWATERING PRACTICES FOR APPROVAL. OPERATE DEWATERING PRACTICES IN A MANNER THAT DOES NOT DISCHARGE SEDIMENT INTO ANY WATERWAY, NO VISIBLE CHANGES TO STREAM CLARITY ARE PERMITTED.

## 8. EROSION AND SEDIMENT CONTROL EXCAVATION

PLACE SILT REMOVED FROM CONTROL DEVICES IN AN APPROVED WASTE SITE EITHER ON OR OFF THE PROJECT. MATERIAL STORED ON SITE MAY BE REUSED ONCE IT IS DRIED AND IF IT MEETS SHA REQUIREMENTS FOR EMBANKMENT OR ANY UNSPECIFIED NEED.

## 9. OFF-SITE UTILITY WORK

FOLLOW THESE ADDITIONAL BEST MANAGEMENT PRACTICE CONTROL PRACTICES FOR UTILITY CONSTRUCTION IN AREAS OUTSIDE OF DESIGNED CONTROLS:

- LOCATE "MSS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK.
- SURFACE EXCAVATED MATERIAL ON THE HIGH SIDE OF THE TRENCH. BACKFILL, COMPACT AND STABILIZE TRENCHES FOR UTILITY RELOCATIONS AT THE END OF EACH WORKING DAY, WHEN THIS IS NOT POSSIBLE, CONFORM TO (6).
- REPLACE TEMPORARY SILT FENCES IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.

## 10. SENSITIVE AREAS

OBTAIN APPROVAL FROM THE ENGINEER AND COORDINATE WITH THE PERMIT HOLDERS WHO WILL COORDINATE WITH THE APPROPRIATE REGULATORY AGENCIES TO ENSURE THAT ALL PERMIT CONDITIONS ARE MET PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY WITHIN SPECIFIED SENSITIVE AREAS OF THE PROJECT. DESIGNATE A RESPONSIBLE PARTY TO MONITOR ALL WORK IN THESE AREAS TO ASSURE THAT REASONABLE CARE IS TAKEN IN OR ADJACENT TO THESE AREAS. SENSITIVE AREAS ARE DEFINED AS FLOODPLAINS, WETLANDS (TIDAL, NONTIDAL, AND ASSOCIATED BUFFERS), CRITICAL AREAS, FORESTED AREAS, BIOLOGICAL SITES, WETSPRING SITES, PEARLAND AND OPEN WATER.

## 11. STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, COMPLETE PERMANENT OR TEMPORARY STABILIZATION WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMETER CONTROLS, DICES, SWALES, DITCHES, PERMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3H:1V) AND SEVEN (7) 4:5 TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. MAINTAIN TO ENSURE CONTINUED STABILIZATION.

## 12. SITE INFORMATION - (NOT FOR BIDDING PURPOSES)

TOTAL AREA OF SITE	3.63	ACRES
AREA DISTURBED	3.63	ACRES
AREA TO BE ROOFED OR PAVED	0	ACRES
TOTAL CUT	500	CU YDS.
TOTAL FILL	250	CU YDS.
OFFSITE WASTE/STORAGE AREA LOCATION OF ANOM		

## 13. INCREMENTAL STABILIZATION

REFER TO THE CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE INCREMENTAL STABILIZATION OF CUTS AND FILLS.

## 14. MODIFICATIONS

SUBMIT MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROLS TO SHA FOR APPROVAL. OBTAIN ALL APPROVALS FROM SHA PRIOR TO IMPLEMENTING ANY MODIFICATION.

## 15. SEDIMENT TRAPS AND BASINS

PLAN DIMENSIONS ARE RELATIVE TO THE OUTLET ELEVATION. INLET AND OUTLET LOCATIONS FOR TRAPS AND BASINS MUST BE MAINTAINED IN STABLE CONDITION.

## STANDARD SYMBOLS

AT-GRADE INLET PROTECTION		ROCK OUTLET PROTECTION I	
BAFFLE BOARDS		ROCK OUTLET PROTECTION II	
BENCHING		ROCK OUTLET PROTECTION III	
CATCH BASIN INSERT		SILT FENCE	
CLEAR WATER DIVERSION PIPE		SILT FENCE ON PAVEMENT	
CLEAR WATER PIPE		SOD	
COMBINATION INLET PROTECTION		STABILIZED CONSTRUCTION ENTRANCE	
CONCRETE WASHOUT STRUCTURE		STABLE ACCESS PATH	
CURB INLET PROTECTION		STANDARD INLET PROTECTION	
DIVERSION FENCE		STOCKPILE AREA	
EARTH DIKE		STONE CHECK DAM	
EMERGENCY SPILLWAY		STONE/RRAP OUTLET SEDIMENT TRAP ST II	
FILTER BAG		SUBSURFACE DRAINS	
FILTER BERM		SUMP PIT	
FILTER LOG		SUPER SILT FENCE	
GABION INFLOW PROTECTION		TEMPORARY ACCESS BRIDGE	
GABION INLET PROTECTION		TEMPORARY ACCESS CULVERT	
HORIZONTAL DRAW-DOWN DEVICE		TEMPORARY ASPHALT BERM	
LIMIT OF DISTURBANCE		TEMPORARY BARRIER DIVERSION	
MEDIAN INLET PROTECTION		TEMPORARY GABION OUTLET STRUCTURE	
MEDIAN SUMP INLET PROTECTION		TEMPORARY SOIL STABILIZATION MATTING-TYPE A	
MOUNTABLE BERM		TEMPORARY SOIL STABILIZATION MATTING-TYPE E	
PERMETER DIKE/SWALE		TEMPORARY SOIL STABILIZATION MATTING-TYPE D	
PERMANENT SOIL STABILIZATION MATTING-TYPE B		TEMPORARY STONE OUTLET STRUCTURE	
PERMANENT SOIL STABILIZATION MATTING-TYPE C		TEMPORARY SWALE	
PIPE OUTLET SEDIMENT TRAP ST I		WASH RACK OPTION	
PIPE SLOPE DRAIN		CHESAPEAKE BAY CRITICAL AREA	
PLUNGE POOL		DRAINAGE BOUNDARY	
PORTABLE SEDIMENT TANK		EXISTING CONTOURS	
REMOVABLE PUMPING STATION		PROPOSED CONTOURS	
RRAP INFLOW PROTECTION		TREE PROTECTION FENCE	
RRAP OUTLET SEDIMENT TRAP ST III		WETLAND	
		WETLAND BUFFER	
		100-YEAR FLOODPLAIN	

## SEQUENCE OF CONSTRUCTION

### SEQUENTIAL SEQUENCE OF CONSTRUCTION:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
2. CLEAR ANY TREES AND SHRUBS WITHIN THE POND VICINITY AS SHOWN ON THE PLAN.
3. PUMP / DREDGE EXISTING PONDING WATER AND SEDIMENT TO RETROFIT FACILITY. DRY WATER FROM THE WORK AREA SHALL BE PUMPED TO A SEDIMENT FILTERING MEASURE SUCH AS FILTER BAG BEFORE DISCHARGING TO THE DOWNSTREAM CHANNELS / PIPE.
4. REMOVE EXISTING 54" AND 60" HEADWALL.
5. INSTALL PROPOSED RRAP STRUCTURE WITH REAL TIME CONTROL SYSTEM. EXTEND EX. 54" AND 60" CMP AND 30" RCP TO THE PROPOSED RRAP STRUCTURE.
6. GROUT THE FRONT SIDE OF THE EXISTING STONE FILLED WIRE BASKETS AND ABANDON IN PLACE.
7. REMOVE EXISTING INLET AND ASSOCIATED 18" CMP AS SHOWN ON PLAN.
8. INSTALL PROPOSED RRAP CHANNEL AS SHOWN ON PLAN.
9. EXCAVATE THE POND BOTTOM, REGRADE DITCHES ALONG THE NORTH AND WEST SIDE OF THE POND, REGRADE THE AREA AROUND THE PROPOSED RRAP.
10. STABILIZE ALL DISTURBED AREAS ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

WSP USA, Inc.  
1 EAST PRATT STREET SUITE 300  
BALTIMORE, MD 21202  
(410) 723-5050

**P.E. CERTIFICATION**  
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. \_\_\_\_\_  
EXPIRATION DATE: \_\_\_\_\_

**DESIGN CERTIFICATION**  
HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-10 THROUGH 4-16 AND SECTIONS 4-20 AND 25, AND THE CODE OF MARYLAND REGULATIONS (COMAR 26.12.01 AND COMAR 26.12.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY.  
DATE \_\_\_\_\_ DESIGNER'S SIGNATURE \_\_\_\_\_  
NO REGISTRATION NO. P.E., R.L.S., R.L.A., OR R.L.A. (ORCLE ONE) PRINTED NAME \_\_\_\_\_

STATE HIGHWAY ADMINISTRATION  
STORMWATER MANAGEMENT / EROSION AND SEDIMENT CONTROL  
FINAL APPROVAL  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
DIVISION CHIEF PLAN REVIEW DIVISION  
PRO NO: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

REVISIONS

NO.	DATE	DESCRIPTION

STATE HIGHWAY ADMINISTRATION  
BMP 030269

**EROSION AND SEDIMENT CONTROL GENERAL NOTES**

STATE: \_\_\_\_\_ COUNTY: \_\_\_\_\_ LOCALITY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_ HORIZONTAL SCALE: \_\_\_\_\_  
REV. NO.: \_\_\_\_\_ VERTICAL SCALE: \_\_\_\_\_  
DRAWING NO.: **ES-01** OF **02** SHEET NO. 05 OF 08



**MDOT**  
 MARYLAND DEPARTMENT  
 OF TRANSPORTATION  
 STATE HIGHWAY  
 ADMINISTRATION

AREA-WIDE TMDL DESIGN, BUILD, AND OPERATE  
 STORMWATER BMP RETROFIT, PACKAGE B  
 CONCEPT SUBMITTAL

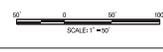
BMP 030269

DATUM: NAD 83/91 Horizontal  
 NAVD 88 Vertical

REVISIONS		EROSION AND SEDIMENT CONTROL PLAN	
NO.	DATE	SCALE	CONTRACT NO.
1	MAY 16, 2019	AS SHOWN	3077952692
DESIGNED BY	DATE	COUNTY	SUBDIVISION
DRAWN BY	DATE	LOGSHE	
CHECKED BY	DATE	HORIZONTAL SCALE	
APP. PROJ.	TERMINOLOGY	VERTICAL SCALE	
DATE	NO.	ES-02	OF 02
		SHEET NO.	06 OF 10

**wsp**

WSP USA, Inc.  
 1 EAST PRATT STREET SUITE 300  
 BALTIMORE, MD 21202  
 (410) 727-6000



TENTATIVE  
 MAY 16, 2019

THIS DOCUMENT IS A PRELIMINARY DRAFT AND  
 SUBJECT TO CHANGE. IT IS NOT TO BE USED FOR  
 CONSTRUCTION. ANY CHANGES TO THIS PLAN  
 SHALL BE MADE BY THE ENGINEER. FOR  
 PUBLIC RELEASE UNDER THE GENERAL  
 PROVISIONS OF THE MARYLAND  
 INFORMATION ACT.

ES-02