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**HOWARD COUNTY, MARYLAND**

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**MAXIMUM EXTENT PRACTICABLE  
(MEP) ANALYSIS**

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**July 7, 2021**

*Howard County Department of Public Works*

*Bureau of Environmental Services*

*Stormwater Management Division*

*9801 Broken Land Parkway, Columbia, MD 21046*

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## SECTION 1: SUMMARY NARRATIVE

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## Howard County, Maryland

### Maximum Extent Practicable (MEP) Analysis

#### Summary Narrative

July 7, 2021

The Maryland Department of the Environment (MDE) is in the process of developing of the next generation National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Phase 1 Medium permit. To aid in the NPDES MS4 permit development process and to be consistent with Maryland's Phase III Watershed Implementation Plan (WIP) to Restore Chesapeake Bay by 2025, MDE developed the Maximum Extent Practicable or "MEP" Analysis to allow jurisdictions the opportunity to document the level of restoration they can accomplish in five years and to show County residents and stakeholders their plan to accomplish multiple objectives and meet restoration goals. On May 13, 2021, MDE requested that Howard County submit its MEP Analysis by July 7, 2021.

The MEP Analysis includes a Physical Capacity Analysis, a Restoration Project Portfolio spreadsheet, and a Fiscal Capacity Analysis and spreadsheet.

#### Physical Capacity Analysis

The Physical Capacity Analysis is included in Section 2 and is a questionnaire that describes the limitations (other than financial) that Howard County faces when implementing restoration projects. Attachments 1 through 5 support the Physical Capacity Analysis.

The type of project, i.e. ponds, streams, alternative practices, takes different amounts of time to go from initial concept to complete in-the-ground, but generally the County has been able to get 'typical' projects designed, permitted, and built in two to three years. Efforts such as tree planting may only take six months for design and implementation, but there is often additional time needed to actually identify appropriate sites for the tree planting and coordinate with the property owner. Stormwater management pond and stream restoration projects, which are larger and generally more complicated, often have non-cooperative adjacent property owners, and/or require higher levels of permitting (namely MDE Dam Safety review of ponds), which could add a year or more to the typical project time frame for completing typical projects. The County has four on-call design consultant teams and nine on-call construction firms that do the majority of the County's stream and pond restoration projects. When construction costs are projected to exceed \$1 million, the County must put these construction tasks out to public bid. The County has done two design/build projects, as well, but the on-call design and construction contract approach has worked well for the County. The County's schedules for design and construction have not been negatively impacted by a lack of qualified consultants and contractors, including WBE and MBE firms, and there has not been a shortage of firms showing interested in applying for the County's on-call contracts.

## Restoration Project Portfolio

The Restoration Project Portfolio spreadsheet is included as Section 3 and includes:

- the list of projects, best management practices, and restoration that Howard County has implemented since meeting its previous permit's 20% impervious surface restoration goal (March 30, 2018)
- the list of projects, best management practices, and restoration that Howard County plans to implement over the next five-year permit term (2022 through 2026)
- the list of projects, best management practices, and restoration known at this time that Howard County may implement over the two years beyond the next five-year permit term (2027 through 2028)

The level of impervious acres restored and pollutant load reductions in the Restoration Project Portfolio is based on the Chesapeake Bay Phase 6 Watershed Model and the 2020 Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated (Accounting Guidance). The Accounting Guidance document incorporates the equivalent impervious acre calculations for alternative practices, and credits for green stormwater infrastructure and watershed management.

The County edited the Subtotal and Total equations in the Restoration Project Portfolio to reflect the County's permit timeframe (through FY26) and annual operational crediting accurately. Upon review of the spreadsheet equations it was determined that the summed values were not accurate, specifically the =IFS statement was not tabulating the total list of capital projects.

Howard County's Restoration Project Portfolio includes the full suite of stormwater-related projects and programs managed by a typical jurisdiction:

- conveyance
- water quality management
- water quality improvement
- flood control
- quantity management
- engineering design
- construction
- inspection
- maintenance
- restoration
- management

### Annual Operational Programs

The County is continuing street sweeping, inlet cleaning, and septic system pumping programs to maintain credits claimed under the County's previous permit (Permit # 11-DP-3318). There are currently no additional planned levels of implementation above what was completed previously; however, the County will revisit these programs regularly to determine if they will be continued or replaced with permanent credits.

The County's street sweeping planning goal is to achieve an annual average of 351.4 impervious acres by the end of the current permit (Permit # 21-DP-3318). This goal maintains the average of street sweeping impervious acres used toward the County's 20% Impervious Restoration Target under the County's previous permit (351.4 acres; average FY11 to FY19). The County's inlet cleaning planning goal is an annual average of 67.8 impervious acres by the end of the current permit, which maintains the average of inlet cleaning impervious acres used towards the County's 20% Impervious Restoration Target (67.8 acres; average FY17-FY19). The planning goal for septic pump-outs is a total of 140.3 impervious acres by the end of the current permit, which equates to an annual target of 20.0 impervious acres or 668 septic pump-outs. This goal maintains the sum of FY15-FY19 septic pump-outs (4,678) used towards the County's 20% Impervious Restoration Target.

Projected implementation of annual practices is under the assumption that there will be a 7-year period, FY20-FY26, for annual practices to apply to the County's current permit. FY20 efforts are complete and recorded in the Restoration Project Portfolio for all three annual practices. For FY21-FY26, the average value needed to hit the planning goal over the next 6 years (to the end of the next permit) to maintain the crediting from the previous permit is recorded. At this time, the County does not have FY21 data; so, FY21 is reflected as a projection like records for future years FY22-FY26. If FY20 efforts fell below the planning goal, projected implementation for future years were adjusted to make up any deficits. The County has not projected annual operational efforts for 2027-2028.

Impervious restoration and load reductions calculations were made following MDE's 2014 Accounting Guidance and associated Bay Program Expert Panel reports. TN EOS load reductions were multiplied by the County average River to Bay TN delivery factor to calculate TN EOT load reductions for street sweeping and inlet cleaning. A summary of the impervious restoration progress made through the end of the County's permit term (December 17, 2019) by Howard County, including crediting from annual operational programs, is included in Table 10 of the County's FY20 Annual Report (Howard County Government, 2020) and detailed in the report submitted with the FY20 annual report titled *Howard County Impervious Restoration Accounting: Methodology and Results, Revised June 2020*.

### Flood Mitigation Program

Howard County's Restoration Project Portfolio also includes an extensive flood mitigation program, a component of the Ellicott City Safe and Sound plan (the Plan), which is not typically found in an NPDES water quality restoration portfolio. After the July 2016 and May 2018 catastrophic and deadly floods in Historic Ellicott City, the County developed the Plan to address public safety. The Plan was the result of a major hydrology and hydraulics study to identify opportunities for flood mitigation in Ellicott City. There are four main focus areas of the Plan:

1. ensure public safety and account for climate change
2. support local business and property owners
3. maintain Ellicott City's historic charm
4. develop a more inclusive, community-driven process regarding Ellicott City's future

While some of these focus areas are being addressed through public outreach, enhanced situational awareness, and planning, the primary means for achieving the flood control portion of the Plan is the design and construction of seven large flood control projects. Five of the projects are upland dry flood storage facilities that will attenuate the flood flows that could reach Historic Ellicott City. The other two

projects are large flood conveyance projects to divert flows under the town and to the Patapsco River, with one of the conveyance projects being a 5,800-linear foot, 15'-18' diameter rock tunnel under the town and under the CSX railroad. The current total estimated cost for these seven large capital projects is approximately \$140 million. The County is funding this massive effort through a combination of County capital funds, grants, and a WIFIA loan through EPA. While not true "water quality" restoration projects, all of these flood control projects will have benefits to the waterbodies in the area and the County is very interested in working with MDE to quantify the co-benefits for these projects within the context of the County's next permit requirements for meeting the NPDES and TMDL goals.

More general information about the Plan can be found at <https://www.ecsafeandsound.org/>

In addition to the Ellicott City Plan, the County has several other priority areas that will be a main focus during the next NPDES permit term. The July 2016 and May 2018 floods that devastated Historic Ellicott City also did significant damage in other local watersheds including the Valley Mede and Chatham subwatersheds. While not to the extent and cost of the Plan noted above, the County is investing in the design and construction of several flood mitigation capital projects in the Valley Mede and Chatham areas. These projects, many of which are currently in design, could cost upwards of \$10 million.

Another public safety focus for the County during the next permit term, and beyond, is the need for repair and replacement of failing stormwater pond infrastructure. The County has many older ponds that were built with metal barrels and risers, which was the accepted practice at the time of their design. These metal structures have now reached their service life and need to be replaced with concrete pipes and structures. The County has been trying to keep up with the pond repairs at the same time as performing projects to achieve impervious acre restoration and TMDL credits, but the pond needs are outpacing the credit requirements. The County tries to achieve impervious acre/TMDL credits whenever possible through these pond repairs, but that is not always possible due to site specific constraints. These pond repairs and reconstruction projects are typically funded through the County's capital budget.

All of the projects in the County's Restoration Project Portfolio must compete for funds with other County services including fire, police, and schools. With limited capital funds available and the added budget strain from the current COVID-19 pandemic, the County has to evaluate budgets annually and tough decisions are needed to prioritize spending with limited resources.

## **Financial Capacity Analysis**

The Financial Capacity Analysis (FCA), included in Section 4 and Attachment 6, provides information on how stormwater-related costs are viewed in context with:

- Median Household Income (MHI)
- Socioeconomic Indicators (e.g., Unemployment, Poverty)
- Financial Wherewithal (Debt & Financial Management)

The FCA was developed in coordination with the University of Maryland's Environmental Finance Center (UMD-EFC). Data requested was gathered from:

- American Community Survey (ACS) information (<https://data.census.gov/cedsci/>)
- financial reporting websites
- county budgets

The FCA shows that Howard County has successfully invested in its stormwater program, meeting the fourth generation MS4 Permit's 20% impervious surface area restoration requirement. Howard County has been and continues to actively pursue state and federal grants to fund stormwater-related projects and services. The State and Federal grants provide for additional public improvements without additional debt burdens on County residents. The County also offers Watershed Protection Fee Hardship Tax Credit which provides for a 60% credit of the fee.

The FCA shows that Howard County is a financially strong community. Howard County has received the highest possible credit rating, AAA, from all three bond rating agencies for 24 consecutive years. This acknowledges the County's sizable and wealthy tax base, sound fiscal policies, and fiscal management. As all three credit rating agencies provided a stable outlook, the County continues to take a conservative and prudent approach, adhering to its policies, and does not anticipate any negative impacts to future borrowing.

## **MEP Summary**

Under the County's current permit, and as reported in the County's final summary impervious accounting reports submitted in June 2020 (Howard County, 2020), the County's 20% impervious restoration goal of 2,203.8 acres was met on March 30, 2018, which included 559.4 acres of annual practices (street sweeping, catch basin cleaning, and septic system pumping) in addition to permanent practices including stormwater BMP, stream restoration, outfall stabilization, septic practices, and others.

Howard County performed impervious surface restoration credit calculations and pollutant load reduction estimates for projects completed and planned for after the March 30, 2018 date up through 2026, the expected end of the County's next permit term. These projects are included in the Restoration Project Portfolio and total 1,365.6 acres of impervious restoration. The total restoration projected includes an anticipated 1,356.7 acres of restoration from 'Capital Projects' and 8.9 acres of restoration from 'Other' projects, which largely include septic connections and upgrades, and rain barrel installations. The County's 20% goal was based on an impervious untreated baseline of 11,018.9 acres. Completing 1,365.6 acres of additional impervious restoration would represent 12.4% of the previously identified untreated baseline.

The County believes that the overall restoration plan and unique level of implementation presented with this analysis is the MEP for Howard County. As noted in the financial and physical analyses, there are many stormwater and water quality related responsibilities and priorities facing the County over the next several years that coincide with the permit term and will compete heavily for funding and County resources. Many of these elements do not translate directly into new impervious restoration, but are absolutely needed to maintain existing systems, meet other MS4 goals, and provide for functional and safe infrastructure. These include general inspection, maintenance, and repair of existing infrastructure; monitoring and reporting of system effectiveness; meeting flood management and control objectives; and meeting local TMDL goals related to TN, TP, TSS and the non-Bay TMDL pollutants including bacteria, and PCBs.



The planned level of effort on Howard County's part demonstrated by this MEP analysis should be more than adequate to achieve measurable success over the next permit term, assist MDE in meeting Maryland's statewide goals towards the Bay TMDL, and provide consistency with the Phase III WIP.

## **References**

Howard County Government, Department of Public Works. 2020. Howard County Impervious Restoration Accounting: Methodology and Results, Revised June 2020. Submitted to the State of Maryland Department of the Environment, Baltimore, Maryland.

Howard County Government, Department of Public Works. 2020. National Pollutant Discharge Elimination System NPDES Permit No. MD0068322 State Discharge Permit No. 11-DP-3318 ANNUAL UPDATE NUMBER 25 FISCAL YEAR 2020. Submitted to State of Maryland Department of the Environment, Baltimore, Maryland.

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SECTION 2:  
PHYSICAL CAPACITY ANALYSIS

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## Howard County, Maryland

### Maximum Extent Practicable (MEP) Analysis

#### Physical Capacity Analysis

July 7, 2021

**1. What is the typical implementation time frame (from planning through construction) for a restoration project? Provide a typical Gantt chart for the following three main classes of BMPs and break down into planning, design, and construction phases: 1. Large upland stormwater projects (e.g., new and retrofits for ponds, bioretention, infiltration basins, etc.); 2. Instream restoration projects; and, 3. Alternative projects (not annual) (e.g., tree planting). Provide a written justification to explain the time frames for each BMP class and phase.**

The typical time frame for a “normal” stream or pond project is three to four years from the time that a project is identified and a design consultant is assigned to the project to when construction has been completed. Normal projects are those without special permitting considerations, do not require MDE Dam Safety input, do not impact historic or cultural resources, don’t require property acquisition or easements, do not have public opposition, and have available funding. Sample time frames for normal restoration projects are as follows and are illustrated in the attached Gantt chart (Attachment 1):

- Large upland stormwater projects – Planning - 3 to 6 months; Design, which includes permitting – 12 to 15 months; Construction – 12 to 15 months depending on the size of the project. If the project requires MDE Dam Safety review at least one more year should be added.
- Stream restoration projects – Planning – 3 to 6 months; Design, which includes permitting - 12 to 15 months; Construction – 12 to 15 months depending on size of the project and whether the project stops during the stream closure period.
- Alternative (trees planting) - Planning – 6 months with some projects on a wait list of up to two years; Design and implementation to 3 – 6 months depending on the size of the planting area.
- Alternative (septic pump outs and upgrades) - Planning – converting homes from septic to County sewer infrastructure typically happens slowly and in small amounts due to the cost of the new infrastructure and the willingness and desire by the residents to be taken off their septic system. For pump outs the planning involved is for public education and setting up funding for incentive programs. Design – 12 months for infrastructure improvements and Construction – 12 months to build the new infrastructure and tie in the residents systems.

The schedules in Attachment 1 include examples representing the two types of contracting, on-call and public advertisement, as described in more detail under #3 below. Using the County’s on-call contract, shown in Attachment 1 for large stormwater BMPs an stream restoration projects, a project typically takes 3 years to complete. For projects with estimated construction costs over \$1 million, a public advertisement method is necessary which add approximately 6 months to the overall timeline.

In addition to the timeframes listed and shown on the Gantt chart, post-construction monitoring required by permits, particularly for stream restoration projects, can range from three to five years. Triennial inspections for restoration projects also begin post-construction. After permit required post-

construction monitoring the County continues to visit all completed stream projects on an annual basis even though reporting is not required.

For large upland stormwater and stream restoration projects the County has a large list of potential projects that has been generated by a variety of methods. Projects are added to the list on a rolling basis based on the countywide watershed assessments performed under the current NPDES permit cycle, property owner complaints, BMP inspection results (where repairs/retrofits are identified), and from elected officials. Projects are evaluated and prioritized annually based on project need, public safety concerns, water quality needs, and funding availability. The annual project prioritization/selection process is dynamic since field conditions and other considerations may change from year to year, and flexibility is needed to address the most urgent needs at the time. In some cases a new project that is brought to the County's attention may move to the front of the line based on its potential impact to public safety or infrastructure. When projects are selected to move forward, there is a relatively short initial period to bring a consultant on board and perform a planning level assessment of the potential project to identify any complicating factors that could impact project design or that need to be addressed before proceeding to formal design. Assuming no major issues arise during planning, the County assigns the design of the project to one of our on-call design teams. The design team goes through the normal design process of collecting data, designing the project (typically with 30%, 65%, 95%, and 100% milestone submittals), and submitting for and acquiring all necessary permits. The County also selects one of our on-call environmental restoration contractors to provide value engineering and constructability reviews during the design process.

For alternative projects, namely tree planting, the time frame is quicker due to less time needed for design and planting; however, pre-planning and actually finding sites takes more time since there are limited properties that lend themselves to large reforestation projects. Publicly owned properties including park properties may need to be left un-forested due to possible future uses. Private property owners, as a general rule, may accept a small portion of their property being planted with trees but typically do not volunteer to have major areas re-planted. So while tree planting may be a quicker project type, the ability to get large TMDL and impervious acre credits is less than the larger pond and stream projects.

**2. Provide the average time to authorize capital improvement project (CIP) budgets for the initial project planning phase and for the design phase of a typical restoration project (assumes CIP approval for each phase is required). Do you have the ability to combine these two phases or do you have to get CIP approval for each phase consecutively?**

Planning and design phases are typically combined with respect to requesting funding. For Howard County the CIP budget process usually starts in October/November at which time the annual prioritization and project selection process noted in #1 above starts. The CIP process involves further assessment and prioritization within the Department of Public Works, but the CIP request is sent to the County Budget Office and then to the County Executive. The Executive proposes his CIP budget, and then staff attend County Council work sessions to explain and justify the CIP requests. Final County Council approval occurs the following May. Funds approved by the County Council in May are then available in July/August, depending on the specific fund source. Once funds are available, the planning process can begin. If funding is not available for all projects initially identified, those projects remain on the potential project list and are reconsidered in the next fiscal year's CIP budget cycle. Typically

Planning/Design funds are requested in one fiscal year and then construction money is requested in the following fiscal year cycle.

**3. Provide the average time to procure professional planning, design, and construction services. Is procurement done in phases (e.g., procurement for planning, then procurement for design, and then procurement for construction)? How would a pay for performance type of contract or a design-build-operation-maintenance contract affect these time frames? Please provide information on any innovative contracting mechanism you use to reduce procurement timeframes and what those reduced time frames are.**

For environmental restoration projects, Howard County currently has four on-call design teams that are assigned planning/design tasks at the start of a fiscal year based on availability of funds as noted in #2 above. The on-call design contracts are five-year contracts, which are renewed such that there is no gap in availability of design teams. There are infrequent exceptions where the County will put out an Expression of Interest for large or specialized design tasks, e.g. the Ellicott City North Tunnel, which is a 5,800-linear-foot rock tunnel under Ellicott City and the CSX railroad line.

The County also maintains on-call construction contracts. There are four on-call contractors pre-qualified to do pond work and five on-call contractors pre-qualified to do stream work. These are six-year contracts. The County can assign construction tasks to these on-call contractors if they are anticipated to cost less than \$1 million. Construction projects greater than \$1 million are put out for bid. This external bidding process typically takes six to eight months from development of the Invitation for Bid until there is a signed contract. If grant money from the State is part of the construction funding package, another six months would be added to that time frame.

The County has done two design/build contracts for large stream restoration projects, but other than that, design and construction are procured separately. This design/build process from project advertisement to completion of construction took approximately two years; however, for one of the projects, acquisition of easements had to be done before the project was advertised. For normal stream and pond projects, the design/build process may have benefits, but the time to go from planning to construction does not really change.

The County continues to be open to innovative procurement options as they are applicable to specific projects. In the case of two large Ellicott City flood mitigation projects, the County is using the Construction Manager At Risk (CMAR) procurement process to bring the contractor on board early in the design phase, but this approach is not appropriate for typical pond and stream projects.

**4. Provide the number of requests for proposals (RFPs) for BMP construction and for BMP design advertised during the past 5-year permit term. Of these, how many bids were submitted for each RFP and how many required re-advertising? Was there a trend over the permit term in the number of bid submittals received? How many unique companies provided bids for all RFPs?**

As noted above, design and construction of BMPs is typically done through on-call contracts. For the current on-call design contract, the County received 19 expressions of interest, and through a Quality Based Selection process, chose four design teams to award contracts to. For the current on-call construction contract, the County received 15 bids from qualified contractors, and nine contractors were selected: five for stream work and four for pond work. Contractors were allowed to submit bids

and be selected for both pond and stream work. During the past five-year permit term, less than five stream and pond construction tasks were put out to bid since the rest were assigned to on-call contractors. No contracts required re-advertising. No trends were noticed for number of bids received.

**5. Provide information on contracting limitations that result in longer project implementation times. Examples: Limited qualified construction contractors; Woman owned business enterprise (WBE) or minority owned business enterprise (MBE) requirements limit available qualified construction contractors and/or engineering contractors. Describe the issue and provide the time extension that results due to the issue.**

The County has not seen a limited number of qualified contractors to date submitting expressions of interest for design or bids for construction, nor have the County's WBE/MBE requirements limited bidders. As noted above, the bulk of the County's construction work to date has been through pre-qualified contractors through an on-call contract, which has limited the number of project-specific invitations for bids, which in turn has limited the chances of having contracting limitation issues. As projects get bigger and more expensive, more projects will be put out to bid, and the County will be able to see if there are issues with the number of qualified bidders in the future.

**6. Provide a typical time frame required to obtain permits from local, State, and federal agencies for the three main BMP project classes (i.e., upland stormwater ponds, instream restoration, and alternative projects) prior to construction. Describe how these time frames affect the overall project implementation time frames described in Question #1. How can these time frames be reduced to help get these projects out the door faster?**

Permitting varies based on the type and size of project and agencies involved, so typical time frames are hard to say. For stream projects, the critical path for permitting is the Joint Permit Application (JPA) through MDE/Corps. On average, this process takes nine to 12 months. For pond projects, the big determining factor is whether the pond is classified as a significant or high hazard pond where MDE Dam Safety (DS) is involved. If DS is not involved, a typical pond review is done through the Howard Soil Conservation District (HSCD) and takes from eight to 12 months. If DS is involved in the review process, the review time is most likely going to be 12 to 15 months longer than an HSCD review. Alternative projects, in particular tree planting, typically don't go through the detailed review that streams and ponds go through, so permitting may only take six months.

Other factors that extend permit acquisition times are projects that are near historic and/or cultural resources, projects near/through property owned by BGE or CSX, and projects that require utility relocations, as well as projects where the local community opposes the project. Some projects where roadway detours are required also extend the time to permit the project and get public acceptance. If easements or rights of entry are needed to construct a project, that can add at least a year to the overall project schedule.

Agency review times for normal projects do not seem to be the critical path for the County's stream and pond projects; however, quicker turnaround times can also be helpful in speeding up the permit process. Local HSCD review requires three individual reviews; however, in many cases the third review is more of a formality where two reviews would be sufficient. Eliminating one review would save some time. DS review has become the critical path for most projects where DS review is required. Quicker turnaround times by DS would help the overall permit acquisition process. It may be helpful for DS to

assign specific required review times, e.g. 30 days or 45 days. Review by non-governmental agencies such as BGE and CSX do not fall under the normal umbrella of State and Federal reviews and often take an extremely long time. State/Federal review agencies try to coordinate their reviews, which is helpful, but reviews by non-governmental agencies is out of the County's control and does not have fixed turnaround times.

**7. What type of a project do you consider as “low-hanging fruit”? What is your remaining capacity of available “low-hanging fruit” projects (estimate the number and impervious acre treatment total)?**

Projects considered as “low-hanging fruit” for water quality restoration are projects located on County property that have straight forward design, permitting, and construction; have minimal public opposition; provide large amounts of TMDL or impervious acre credit; and are cost effective.

To date, 64% of the stream restoration projects completed have been solely on county property and 36% have been partially on private property. Those stream projects partially on private property have been brought to the County's attention by the private property owner and the owner has provided the easement without issue or delay. For pond retrofits, 38% of the completed projects have been on County property and 62% have been on private property where the County has an existing easement or responsibility for the pond by way of a recorded maintenance agreement. Planned projects have a similar breakdown of ownership.

While land ownership is a main factor in determining “low-hanging fruit,” County-owned lands also have two additional factors that make these projects good candidates for restoration:

1. They are protected by County enforcement as Open Space, Drainage Easements, or other safeguarded lands, and the County has the authority and responsibility to maintain these lands.
2. They are often located in stream valleys, which receive a large amount of upstream inputs from adjacent developments lacking adequate stormwater management and availability of land for an upland retrofit, making these areas highly impacted areas in greater need of restoration.

Therefore, a focus on “low-hanging fruit” for restoration is actually fulfilling the County's responsibility to address the most impaired and vulnerable areas and provide the largest water quality improvement value. The County also focuses a fair amount of effort on other programs that do not necessarily receive restoration credit, but have other benefits to upland developments such as pond repairs, drainage improvements, and flood control projects.

The County has reviewed its list of potential projects and compared the possible restoration credits from these projects relative to the anticipated need for credit in the next generation MS4 permit. At this time we believe we have sufficient projects in the “low-hanging fruit” category to meet this need.

**8. Complete the spreadsheet provided for restoration projects to be planned, designed, and/or constructed from the end of the 4th generation permit through 2028. Include for each restoration project the estimated impervious acres treated, estimated total nitrogen (TN) reduction, estimated total phosphorus (TP) reduction, and estimated total suspended sediments (TSS) reduction; any local total maximum daily load (TMDL) parameter (or other water quality objective) addressed; estimated cost; implementation status; and projected completion year. Include projects that will be in the**

**planning or design phase but will not be completed until after 2026. This information should be more specific for the first reporting year but may be more generalized for the remaining reporting years.**

The Restoration Project Portfolio is included with this submittal in Section 2.

**9. Provide a copy of your 5-year CIP for restoration projects (End of 4th Generation Permit 2028).**

Copies of pertinent CIP budget sheets for the FY22 budget cycle are provided with this submittal as Attachment 2. While funding beyond FY22 still requires County Council approval, the budget sheets do show projected costs for out years.

**10. Provide a copy of your operating budget for annual restoration projects (FY2020).**

In general restoration projects are funded from the County's CIP budget; however, the operating budget does fund certain NPDES related efforts, such as salaries of County staff involved with running CIP projects and performing numerous NPDES related tasks, street sweeping, inlet cleaning, Watershed Enhancement Grants given to local non-profits for environmental restoration and public outreach efforts, inspection and maintenance of NPDES BMPs, NPDES required monitoring efforts, and updating and maintenance of the County's NPDES geodatabase. The County's Office of Community Sustainability utilizes operating budget funds to do many of its environmental initiatives, which include reimbursements for the County's septic pump out program, Cleanscapes program, working with commercial property owners to provide additional water quality on their sites, tree planting programs, and water quality monitoring. Copies of the FY22 operating budget General funds and Watershed Protection and Restoration funds are attached.

Please note that there are three files attached (Attachments 3, 4, and 5) that collectively provide the backup requested in Questions 10 and 11.

There are two files that add up to the Stormwater Management Division's operating budget, namely the "1000" (General Fund) (Attachment 3) and "7360" (Watershed Protection and Restoration Fund) (Attachment 4) sheets. The combination of these two fund sources covers any operating tasks that come out of the Stormwater Management Division, which includes BMP inspections, monitoring, geodatabase and reporting, pollutant load/reduction calculations, illicit discharge tracking and reporting, overall management and accounting for the NPDES program, salaries for Stormwater Management Division staff who do our NPDES oversight as well as staff who manage the County's various water quality restoration projects.

There is one separate file that is for the overall Watershed Protection and Restoration Fund (Attachment 5), which covers a portion of Bureau of Highways, Office of Community Sustainability, Howard Soil Conservation District, and the Stormwater Management Division. Therefore there is an overlap between the "7360" fund spreadsheet noted in the previous paragraph and the overall Watershed Protection and Restoration Fund spreadsheet noted in this paragraph. The overall Watershed Protection and Restoration Fund includes our Bureau of Highways pond crew for BMP maintenance and inlet cleaning, Office of Community Sustainability's various outreach efforts and support of their septic pumpout program, in addition to the multiple NPDES related efforts performed by the Stormwater Management Division noted in the previous paragraph.



**11. Provide a copy of your operating and maintenance budget for all BMPs implemented under the MS4 permit? (FY2020)**

The maintenance of BMPs implemented under the MS4 would be covered by several sources. One source is Bureau of Highways maintenance budget as they are responsible for mowing and routine maintenance for all County BMPs. The second source of maintenance funds is the Stormwater Management Division's capital budget where larger repairs for ponds and on-going inspection and maintenance of stream projects gets funded. Maintenance of tree planting sites is done by Department of Recreation and Parks as part of their normal work effort. Specific funds for the SWM Division and Department of Recreation and Parks is difficult to break out separately. Copies of the FY22 operating budget General funds and Watershed Protection and Restoration funds are attached. See explanation in Question 10 response for the budget sheets that have been attached (Attachments 3, 4, and 5).

It should be noted that with the introduction of ESD requirements, the number of BMPs in the County has grown exponentially, which in turn has significantly increased the inspection and maintenance costs for these BMPs countywide.

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SECTION 3:  
RESTORATION PROJECT PORTFOLIO

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Howard County, Maryland  
 Restoration Project Portfolio  
 Restoration Projects To Be Planned, Designed, and/or Constructed From The End Of 4th Generation Permit Through FY 2028  
 July 7, 2021

|   |   |
|---|---|
| Remaining Unmet Restoration Obligation from Previous Permit (Impervious Acres): | 0 |
|---|---|

| REST BMP ID  | REST BMP TYPE <sup>1</sup> | BMP CLASS <sup>1</sup> | PERMANENT OR ANNUAL BMP | NUM BMP  | DRAIN-AGE AREA (acres) | PE (inches) | LENGTH RESTORED (feet)/LANE MILES (miles)/MASS LOADING (lbs) | TP REDUCTION (lbs/year) | TSS REDUCTION (lbs/year) | TN <sup>6</sup> REDUCTION (lbs/year) | IMP ACRES (IA) | GREEN STORMWATER INFRASTRUCTURE (GSI) CREDIT (IA X 0.35) | WATERSHED MANAGEMENT (WM) CREDIT | TOTAL IMP ACRES (W/ GSI AND WM CREDITS) | IMPLEMENTATION COST | IMPLEMENTATION STATUS <sup>2</sup> | PROJECTED IMPLEMENTATION YEAR | TMDL PARAMETER OR WQ OBJECTIVE ADDRESSED | GENERAL COMMENTS <sup>7</sup> |
|--|----------------------------|------------------------|-------------------------|----------|------------------------|-------------|--|-------------------------|--------------------------|--------------------------------------|----------------|--|----------------------------------|---|---------------------|------------------------------------|-------------------------------|--|-------------------------------|
| <b>Remaining Unmet Restoration Obligations from Previous Permit</b>                        |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  |   |                     |                                    |                               |  |                               |
| <b>Annual Operational Programs (Unmet Obligations from Previous Permit)<sup>3, 4</sup></b> |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  |   |                     |                                    |                               |  |                               |
| Street Sweeping*   |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
| Catch Basin Cleaning*  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
| Septic Sytem Pumping   |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            | A                      | ANNUAL                  |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
| Subtotal Operations <sup>3</sup>   |                            |                        |                         | 0        |                        |             |  | 0.00                    | 0.00                     | 0.00                                 | 0.00           |  |                                  | 0.00                                    | \$0                 |                                    |                               |  |                               |
| <b>Capital Projects (Unmet Obligations from Previous Permit Term)</b>                      |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  |   |                     |                                    |                               |  |                               |
|  |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
| Subtotal Capital   |                            |                        |                         | 0        |                        |             |  | 0.00                    | 0.00                     | 0.00                                 | 0.00           | 0.00   | 0.00                             | 0.00                                    | \$0                 |                                    |                               |  |                               |
| <b>Other (Unmet Obligations from Previous Permit Term)</b>                                 |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  |   |                     |                                    |                               |  |                               |
|  |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
|  |                            |                        |                         |          |                        |             |  |                         |                          |                                      |                |  |                                  | 0.00                                    |                     |                                    |                               |  |                               |
| Subtotal Other   |                            |                        |                         | 0        |                        |             |  | 0.00                    | 0.00                     | 0.00                                 | 0.00           | 0.00   | 0.00                             | 0.00                                    | \$0                 |                                    |                               |  |                               |
| <b>Total of Remaining Obligations from The Previous</b>                                    |                            |                        |                         | <b>0</b> |                        |             |  | <b>0.00</b>             | <b>0.00</b>              | <b>0.00</b>                          | <b>0.00</b>    | <b>0.00</b>  | <b>0.00</b>                      | <b>0.00</b>                             | <b>\$0</b>          |                                    |                               |  |                               |

Obligations from Previous Permit That Must Be Continued

| Annual Operational Programs Required to be Maintained from Previous Permit <sup>3,4</sup> |  |   |        |   |  |  |              |          |            |          |        |  |  |        |           |                    |      |                         |  |
|---|--|---|--------|---|--|--|--------------|----------|------------|----------|--------|--|--|--------|-----------|--------------------|------|-------------------------|--|
| Street Sweeping   |  | A | ANNUAL | 7 |  |  | 1,603,180.00 | 1,122.23 | 336,667.80 | 1,562.70 | 320.64 |  |  | 320.64 | \$400,000 | Complete           | 2020 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; reporting only FY20 mass loading (lbs) results.  |
|   |  | A | ANNUAL | 7 |  |  | 1,782,403.33 | 1,247.68 | 374,304.70 | 1,737.40 | 356.48 |  |  | 356.48 | \$400,000 | Under Construction | 2021 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|   |  | A | ANNUAL | 7 |  |  | 1,782,403.33 | 1,247.68 | 374,304.70 | 1,737.40 | 356.48 |  |  | 356.48 | \$400,000 | Design             | 2022 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|   |  | A | ANNUAL | 7 |  |  | 1,782,403.33 | 1,247.68 | 374,304.70 | 1,737.40 | 356.48 |  |  | 356.48 | \$400,000 | Planning           | 2023 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|   |  | A | ANNUAL | 7 |  |  | 1,782,403.33 | 1,247.68 | 374,304.70 | 1,737.40 | 356.48 |  |  | 356.48 | \$400,000 | Planning           | 2024 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|   |  | A | ANNUAL | 7 |  |  | 1,782,403.33 | 1,247.68 | 374,304.70 | 1,737.40 | 356.48 |  |  | 356.48 | \$400,000 | Planning           | 2025 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|   |  | A | ANNUAL | 7 |  |  | 1,782,403.33 | 1,247.68 | 374,304.70 | 1,737.40 | 356.48 |  |  | 356.48 | \$400,000 | Planning           | 2026 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 351.4 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of street sweeping from 2011-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |

|                       |  |   |        |     |  |            |        |           |        |       |  |  |       |          |                    |      |                         |  |
|-----------------------|--|---|--------|-----|--|------------|--------|-----------|--------|-------|--|--|-------|----------|--------------------|------|-------------------------|--|
|                       |  | A | ANNUAL | 0   |  |            |        |           |        | 0.00  |  |  | 0.00  |          | Planning           | 2027 |                         | The County has not projected street sweeping implementation for 2027 at this time  |
|                       |  | A | ANNUAL | 0   |  |            |        |           |        | 0.00  |  |  | 0.00  |          | Planning           | 2028 |                         | The County has not projected street sweeping implementation for 2028 at this time  |
| Storm Drain Vacuuming |  | A | ANNUAL | 52  |  | 92,050.00  | 64.44  | 19,330.50 | 89.73  | 18.41 |  |  | 18.41 | \$75,000 | Complete           | 2020 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; reporting only FY20 mass loading (lbs) results.  |
|                       |  | A | ANNUAL | 101 |  | 379,874.83 | 265.91 | 79,773.72 | 370.28 | 75.97 |  |  | 75.97 | \$75,000 | Under Construction | 2021 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|                       |  | A | ANNUAL | 101 |  | 379,874.83 | 265.91 | 79,773.72 | 370.28 | 75.97 |  |  | 75.97 | \$75,000 | Design             | 2022 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|                       |  | A | ANNUAL | 101 |  | 379,874.83 | 265.91 | 79,773.72 | 370.28 | 75.97 |  |  | 75.97 | \$75,000 | Planning           | 2023 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|                       |  | A | ANNUAL | 101 |  | 379,874.83 | 265.91 | 79,773.72 | 370.28 | 75.97 |  |  | 75.97 | \$75,000 | Planning           | 2024 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|                       |  | A | ANNUAL | 101 |  | 379,874.83 | 265.91 | 79,773.72 | 370.28 | 75.97 |  |  | 75.97 | \$75,000 | Planning           | 2025 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |

|                      |  |   |        |     |  |  |            |        |           |        |       |  |  |       |          |                    |      |                         |  |
|----------------------|--|---|--------|-----|--|--|------------|--------|-----------|--------|-------|--|--|-------|----------|--------------------|------|-------------------------|--|
|                      |  | A | ANNUAL | 101 |  |  | 379,874.83 | 265.91 | 79,773.72 | 370.28 | 75.97 |  |  | 75.97 | \$75,000 | Planning           | 2026 | IA, TP/TSS/TN Reduction | EIA and load reductions using 2014 Accounting Guidance; planning goal is to achieve an annual average of 67.8 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the average of inlet cleaning from 2017-2019 used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated mass loading (lbs) based on annual EIA target. |
|                      |  | A | ANNUAL | 0   |  |  |            |        |           |        | 0.00  |  |  | 0.00  |          | Planning           | 2027 |                         | The County has not projected storm drain vacuuming implementation for 2027 at this time  |
|                      |  | A | ANNUAL | 0   |  |  |            |        |           |        | 0.00  |  |  | 0.00  |          | Planning           | 2028 |                         | The County has not projected storm drain vacuuming implementation for 2028 at this time  |
| Septic Sytem Pumping |  | A | ANNUAL | 500 |  |  |            |        |           |        | 15.00 |  |  | 15.00 |          | Complete           | 2020 | IA                      | EIA using 2014 Accounting Guidance; reporting only FY20 septic system pump-outs  |
|                      |  | A | ANNUAL | 696 |  |  |            |        |           |        | 20.88 |  |  | 20.88 |          | Under Construction | 2021 | IA                      | EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated septic system pump-outs derived from EIA target.  |
|                      |  | A | ANNUAL | 696 |  |  |            |        |           |        | 20.88 |  |  | 20.88 |          | Design             | 2022 | IA                      | EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated septic system pump-outs derived from EIA target.  |
|                      |  | A | ANNUAL | 696 |  |  |            |        |           |        | 20.88 |  |  | 20.88 |          | Planning           | 2023 | IA                      | EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated septic system pump-outs derived from EIA target.  |
|                      |  | A | ANNUAL | 696 |  |  |            |        |           |        | 20.88 |  |  | 20.88 |          | Planning           | 2024 | IA                      | EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated septic system pump-outs derived from EIA target.  |
|                      |  | A | ANNUAL | 696 |  |  |            |        |           |        | 20.88 |  |  | 20.88 |          | Planning           | 2025 | IA                      | EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated septic system pump-outs derived from EIA target.  |

|   |  |   |        |          |  |  |                |                  |                |              |            |            |              |                    |          |      |    |   |
|---|--|---|--------|----------|--|--|----------------|------------------|----------------|--------------|------------|------------|--------------|--------------------|----------|------|----|---|
|   |  | A | ANNUAL | 696      |  |  |                |                  |                | 20.88        |            |            | 20.88        |                    | Planning | 2026 | IA | EIA using 2014 Accounting Guidance; planning goal is to achieve 140.3 EIA by the end of the current permit (Permit # 21-DP-3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP-3318). Estimated septic system pump-outs derived from EIA target. |
|   |  | A | ANNUAL | 0        |  |  |                |                  |                | 0.00         |            |            | 0.00         |                    | Planning | 2027 |    | The County has not projected septic pump-outs for 2027 at this time   |
|   |  | A | ANNUAL | 0        |  |  |                |                  |                | 0.00         |            |            | 0.00         |                    | Planning | 2028 |    | The County has not projected septic pump-outs for 2028 at this time   |
| Subtotal Operations <sup>3</sup>  |  |   |        |          |  |  | 1,466.9        | 440,067.0        | 2,042.6        | 559.4        |            |            | 559.4        | \$3,325,000        |          |      |    |   |
| Capital Projects (Proposed to Replace Annual Obligations)               |  |   |        |          |  |  |                |                  |                |              |            |            |              |                    |          |      |    |   |
|   |  |   |        |          |  |  |                |                  |                |              |            |            | 0.00         |                    |          |      |    |   |
|   |  |   |        |          |  |  |                |                  |                |              |            |            | 0.00         |                    |          |      |    |   |
|   |  |   |        |          |  |  |                |                  |                |              |            |            | 0.00         |                    |          |      |    |   |
| Subtotal Capital  |  |   |        | 0        |  |  | 0.00           | 0.00             | 0.00           | 0.00         | 0.00       | 0.00       | 0.00         | \$0                |          |      |    |   |
| Other (Proposed to Replace Annual Obligations)                          |  |   |        |          |  |  |                |                  |                |              |            |            |              |                    |          |      |    |   |
|   |  |   |        |          |  |  |                |                  |                |              |            |            | 0.00         |                    |          |      |    |   |
|   |  |   |        |          |  |  |                |                  |                |              |            |            | 0.00         |                    |          |      |    |   |
| Subtotal Other  |  |   |        | 0        |  |  | 0.00           | 0.00             | 0.00           | 0.00         | 0.00       | 0.00       | 0.00         | \$0                |          |      |    |   |
| <b>Total of Obligations from Previous Permit That Must Be Continued</b> |  |   |        | <b>0</b> |  |  | <b>1,466.9</b> | <b>440,067.0</b> | <b>2,042.6</b> | <b>559.4</b> | <b>0.0</b> | <b>0.0</b> | <b>559.4</b> | <b>\$3,325,000</b> |          |      |    |   |





|               |     |   |           |      |       |           |       |      |      |          |          |      |                         |
|---------------|-----|---|-----------|------|-------|-----------|-------|------|------|----------|----------|------|-------------------------|
| HO19APY100167 | RFP | A | PERMANENT | 0.77 | 1.93  | 3,396.47  | 6.84  | 1.16 | 1.16 | \$0      | Complete | 2018 | IA, TP/TSS/TN Reduction |
| HO18APY100037 | FPU | A | PERMANENT | 0.75 | 1.34  | 2,103.75  | 1.39  | 0.83 | 0.83 | \$7,860  | Complete | 2018 | IA, TP/TSS/TN Reduction |
| HO18APY100038 | UTC | A | PERMANENT | 0.70 | 0.35  | 144.20    | 1.77  | 0.20 | 0.20 | \$3,075  | Complete | 2018 | IA, TP/TSS/TN Reduction |
| HO18APY100039 | RFP | A | PERMANENT | 0.70 | 1.75  | 3,087.70  | 1.37  | 1.05 | 1.05 | \$3,720  | Complete | 2018 | IA, TP/TSS/TN Reduction |
| HO18APY100045 | UTC | A | PERMANENT | 0.50 | 0.25  | 103.00    | 1.26  | 0.14 | 0.14 | \$3,938  | Complete | 2018 | IA, TP/TSS/TN Reduction |
| HO18APY100049 | FPU | A | PERMANENT | 0.25 | 0.45  | 701.25    | 2.19  | 0.28 | 0.28 | \$3,075  | Complete | 2018 | IA, TP/TSS/TN Reduction |
| HO18APY100040 | UTC | A | PERMANENT | 0.75 | 0.38  | 154.50    | 1.89  | 0.21 | 0.21 | \$9,188  | Complete | 2018 | IA, TP/TSS/TN Reduction |
| HO19APY100169 | RFP | A | PERMANENT | 0.10 | 0.25  | 435.54    | 1.19  | 0.15 | 0.15 | \$1,278  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100170 | RFP | A | PERMANENT | 0.17 | 0.42  | 742.37    | 2.02  | 0.25 | 0.25 | \$1,813  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100171 | RFP | A | PERMANENT | 0.19 | 0.48  | 839.41    | 2.29  | 0.29 | 0.29 | \$1,822  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100172 | RFP | A | PERMANENT | 0.16 | 0.40  | 705.32    | 0.31  | 0.24 | 0.24 | \$2,482  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100173 | RFP | A | PERMANENT | 0.13 | 0.33  | 585.78    | 1.60  | 0.20 | 0.20 | \$2,365  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100174 | RFP | A | PERMANENT | 0.14 | 0.36  | 628.57    | 1.61  | 0.21 | 0.21 | \$1,920  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100175 | FPU | A | PERMANENT | 0.01 | 0.01  | 16.55     | 0.05  | 0.01 | 0.01 | \$379    | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100168 | FPU | A | PERMANENT | 1.54 | 2.74  | 4,319.70  | 15.04 | 1.69 | 1.69 | \$1,200  | Complete | 2018 | IA, TP/TSS/TN Reduction |
| HO19APY100176 | RFP | A | PERMANENT | 0.35 | 0.87  | 1,539.88  | 0.83  | 0.52 | 0.52 | \$4,502  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100177 | UTC | A | PERMANENT | 0.07 | 0.03  | 13.74     | 0.17  | 0.02 | 0.02 | \$2,203  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100178 | FPU | A | PERMANENT | 0.18 | 0.33  | 512.19    | 1.51  | 0.20 | 0.20 | \$417    | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100195 | RFP | A | PERMANENT | 0.43 | 1.08  | 1,897.17  | 1.03  | 0.65 | 0.65 | \$2,954  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100344 | RFP | A | PERMANENT | 0.43 | 1.08  | 1,897.17  | 1.03  | 0.65 | 0.65 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100164 | RFP | A | PERMANENT | 2.09 | 5.23  | 9,218.99  | 25.13 | 3.14 | 3.14 | \$7,730  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100194 | RFP | A | PERMANENT | 0.36 | 0.90  | 1,587.96  | 1.65  | 0.54 | 0.54 | \$3,492  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100205 | FPU | A | PERMANENT | 0.24 | 0.43  | 673.20    | 2.10  | 0.26 | 0.26 | \$2,912  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100192 | RFP | A | PERMANENT | 0.40 | 1.00  | 1,764.40  | 4.28  | 0.60 | 0.60 | \$6,958  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100208 | RFP | A | PERMANENT | 4.00 | 10.00 | 17,644.00 | 35.54 | 6.00 | 6.00 | \$6,958  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100193 | RFP | A | PERMANENT | 0.24 | 0.60  | 1,058.64  | 2.71  | 0.36 | 0.36 | \$2,954  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100198 | UTC | A | PERMANENT | 0.25 | 0.13  | 51.50     | 0.63  | 0.07 | 0.07 | \$3,005  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100199 | RFP | A | PERMANENT | 0.15 | 0.38  | 661.65    | 0.36  | 0.23 | 0.23 | \$2,542  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100189 | FPU | A | PERMANENT | 1.23 | 2.19  | 3,450.15  | 10.20 | 1.35 | 1.35 | \$16,294 | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100206 | UTC | A | PERMANENT | 0.23 | 0.12  | 47.38     | 0.12  | 0.06 | 0.06 | \$2,845  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100191 | FPU | A | PERMANENT | 0.22 | 0.39  | 617.10    | 1.93  | 0.24 | 0.24 | \$2,522  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100204 | UTC | A | PERMANENT | 0.68 | 0.34  | 140.08    | 0.69  | 0.19 | 0.19 | \$6,122  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100190 | UTC | A | PERMANENT | 0.70 | 0.35  | 144.20    | 1.77  | 0.20 | 0.20 | \$10,699 | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100202 | RFP | A | PERMANENT | 0.53 | 1.33  | 2,337.83  | 1.26  | 0.80 | 0.80 | \$4,562  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100200 | RFP | A | PERMANENT | 0.52 | 1.30  | 2,293.72  | 4.26  | 0.78 | 0.78 | \$2,848  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100207 | FPU | A | PERMANENT | 0.35 | 0.62  | 981.75    | 2.90  | 0.39 | 0.39 | \$3,891  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100201 | UTC | A | PERMANENT | 0.72 | 0.36  | 148.32    | 0.74  | 0.20 | 0.20 | \$4,745  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100203 | UTC | A | PERMANENT | 0.40 | 0.20  | 82.40     | 1.01  | 0.11 | 0.11 | \$6,394  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100179 | RFP | A | PERMANENT | 0.16 | 0.40  | 709.73    | 1.93  | 0.24 | 0.24 | \$1,633  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100180 | FPU | A | PERMANENT | 0.05 | 0.09  | 140.25    | 0.44  | 0.06 | 0.06 | \$676    | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100181 | UTC | A | PERMANENT | 0.44 | 0.22  | 90.64     | 1.11  | 0.12 | 0.12 | \$5,359  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100182 | FPU | A | PERMANENT | 0.26 | 0.46  | 729.30    | 2.28  | 0.29 | 0.29 | \$3,227  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100183 | RFP | A | PERMANENT | 0.81 | 2.03  | 3,572.91  | 3.71  | 1.22 | 1.22 | \$11,335 | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100184 | RFP | A | PERMANENT | 0.29 | 0.73  | 1,279.19  | 0.69  | 0.44 | 0.44 | \$3,330  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100185 | UTC | A | PERMANENT | 0.25 | 0.13  | 51.50     | 0.63  | 0.07 | 0.07 | \$2,923  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100186 | FPU | A | PERMANENT | 0.25 | 0.45  | 701.25    | 2.44  | 0.28 | 0.28 | \$2,927  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100187 | FPU | A | PERMANENT | 0.41 | 0.73  | 1,150.05  | 3.40  | 0.45 | 0.45 | \$2,207  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100188 | UTC | A | PERMANENT | 0.33 | 0.17  | 67.98     | 0.89  | 0.09 | 0.09 | \$2,225  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100196 | RFP | A | PERMANENT | 0.57 | 1.43  | 2,514.27  | 6.44  | 0.86 | 0.86 | \$8,428  | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO19APY100197 | RFP | A | PERMANENT | 0.70 | 1.75  | 3,087.70  | 7.49  | 1.05 | 1.05 | \$11,303 | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100347 | RFP | A | PERMANENT | 1.24 | 3.10  | 5,469.64  | 13.26 | 1.86 | 1.86 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100348 | UTC | A | PERMANENT | 0.58 | 0.29  | 119.48    | 1.06  | 0.16 | 0.16 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100341 | RFP | A | PERMANENT | 0.03 | 0.06  | 110.28    | 0.3   | 0.04 | 0.04 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100346 | UTC | A | PERMANENT | 0.52 | 0.26  | 107.12    | 0.95  | 0.15 | 0.15 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100349 | FPU | A | PERMANENT | 0.25 | 0.45  | 701.25    | 2.19  | 0.28 | 0.28 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100352 | UTC | A | PERMANENT | 0.25 | 0.13  | 51.50     | 0.26  | 0.07 | 0.07 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100353 | UTC | A | PERMANENT | 1.38 | 0.69  | 284.28    | 1.41  | 0.39 | 0.39 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100338 | RFP | A | PERMANENT | 0.87 | 2.17  | 3,824.34  | 1.69  | 1.3  | 1.3  | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100355 | FPU | A | PERMANENT | 0.29 | 0.52  | 813.45    | 2.40  | 0.32 | 0.32 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100350 | UTC | A | PERMANENT | 1.10 | 0.55  | 225.57    | 2.76  | 0.31 | 0.31 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100351 | RFP | A | PERMANENT | 0.33 | 0.83  | 1,455.63  | 0.79  | 0.50 | 0.50 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100354 | RFP | A | PERMANENT | 0.25 | 0.63  | 1,102.75  | 2.05  | 0.38 | 0.38 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100345 | UTC | A | PERMANENT | 0.66 | 0.33  | 136.58    | 1.21  | 0.19 | 0.19 | \$0      | Complete | 2020 | IA, TP/TSS/TN Reduction |
| HO20APY100337 | UTC | A | PERMANENT | 0.02 | 0.01  | 3.13      | 0.04  | 0.00 | 0.00 | \$0      | Complete | 2019 | IA, TP/TSS/TN Reduction |
| HO20APY100339 | RFP | A | PERMANENT | 0.13 | 0.33  | 583.04    | 1.17  | 0.20 | 0.20 | \$0      | Complete | 2020 | IA, TP/TSS/TN Reduction |
| HO20APY100340 | RFP | A | PERMANENT | 0.05 | 0.13  | 222.83    | 0.61  | 0.08 | 0.08 | \$0      | Complete | 2020 | IA, TP/TSS/TN Reduction |













|   |      |   |           |   |       |      |  |       |           |        |       |   |  |       |              |                    |      |  |   |
|---|------|---|-----------|---|-------|------|--|-------|-----------|--------|-------|---|--|-------|--------------|--------------------|------|--|---|
| HO20RST109793                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2007 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109794                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2007 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109795                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2007 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109797                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2007 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109799                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2007 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109823                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2008 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109824                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2008 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109825                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2008 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109826                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2008 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109827                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2008 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109822                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2008 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109732                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109733                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109734                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109735                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109736                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109737                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109738                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109739                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109740                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109741                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109742                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109743                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109744                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109745                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109746                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109747                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109748                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109749                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109750                                     | MRNG | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.08  | 307.00    | 0.93   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2010 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109776                                     | ODSW | S | PERMANENT | 1 | 5.00  | 1.00 |  | 2.03  | 9,922.62  | 31.16  | 5.00  |   |  | 5.00  | \$0          | Complete           | 2013 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109764                                     | MIDW | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 297.68    | 0.94   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2013 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109765                                     | MIDW | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 297.68    | 0.94   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2013 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109766                                     | MIDW | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 297.68    | 0.94   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2013 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109767                                     | MMBR | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 196.29    | 1.12   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2013 | IA, TP/TSS/TN Reduction                      |   |
| HO19RST108440                                     | PWED | S | PERMANENT | 1 | 55.35 | 1.00 |  | 21.79 | 34,408.24 | 165.69 | 16.30 |   |  | 16.30 | \$0          | Complete           | 2013 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109752                                     | FBIO | S | PERMANENT | 1 | 0.21  | 1.00 |  | 0.11  | 84.57     | 0.88   | 0.00  |   |  | 0.00  | \$0          | Complete           | 2014 | IA, TP/TSS/TN Reduction                      |   |
| HO15RST900314                                     | FBIO | S | PERMANENT | 1 | 0.22  | 1.00 |  | 0.12  | 455.61    | 1.38   | 0.22  |   |  | 0.22  | \$100,000    | Complete           | 2015 | IA, TP/TSS/TN Reduction                      |   |
| HO20RST109815                                     | MMBR | E | PERMANENT | 1 | 0.15  | 1.00 |  | 0.06  | 222.54    | 1.17   | 0.15  |   |  | 0.15  | \$0          | Complete           | 2017 | IA, TP/TSS/TN Reduction                      |   |
| HO20APY100621                                     | CLTM | A | PERMANENT | 1 | 0.11  |      |  | 0.06  | 0.00      | 0.46   | 0.04  |   |  | 0.04  | \$8,621      | Complete           | 2019 | IA, TP/TSS/TN Reduction                      |   |
| HO20APY100622                                     | CLTM | A | PERMANENT | 1 | 0.08  |      |  | 0.04  | 0.00      | 0.37   | 0.03  |   |  | 0.03  | \$7,245      | Complete           | 2019 | IA, TP/TSS/TN Reduction                      |   |
| HO22RST902771                                     |      | S | PERMANENT | 1 |       |      |  | 0.00  | 0.00      | 0.00   | 0.00  |   |  | 0.00  | \$7,346,931  | Planning           | 2022 | Flood control                                |   |
| HO20RST901543                                     |      | S | PERMANENT | 1 |       |      |  | 0.00  | 0.00      | 0.00   | 0.00  |   |  | 0.00  | \$20,180,758 | Planning           | 2023 | Flood control                                |   |
| HO23RST902773                                     |      | S | PERMANENT | 1 |       |      |  | 0.00  | 0.00      | 0.00   | 0.00  |   |  | 0.00  | \$3,554,091  | Planning           | 2023 | Flood control                                |   |
| D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS |      |   |           |   |       |      |  |       |           |        |       | 1 |  | 1     | \$400,000    | Under Construction | 2020 | Education, Outreach, IA, TP/TSS/TN Reduction | This project is for design and construction of Environmental Site Design (ESD) small scale storm water facilities by Howard EcoWorks. |
| D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS |      |   |           |   |       |      |  |       |           |        |       | 1 |  | 1     | \$400,000    | Under Construction | 2021 | Education, Outreach, IA, TP/TSS/TN Reduction | This project is for design and construction of Environmental Site Design (ESD) small scale storm water facilities by Howard EcoWorks. |
| D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS |      |   |           |   |       |      |  |       |           |        |       | 1 |  | 1     | \$400,000    | Design             | 2022 | Education, Outreach, IA, TP/TSS/TN Reduction | This project is for design and construction of Environmental Site Design (ESD) small scale storm water facilities by Howard EcoWorks. |
| D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS |      |   |           |   |       |      |  |       |           |        |       | 1 |  | 1     | \$400,000    | Planning           | 2023 | Education, Outreach, IA, TP/TSS/TN Reduction | This project is for design and construction of Environmental Site Design (ESD) small scale storm water facilities by Howard EcoWorks. |
| D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS |      |   |           |   |       |      |  |       |           |        |       | 1 |  | 1     | \$400,000    | Planning           | 2024 | Education, Outreach, IA, TP/TSS/TN Reduction | This project is for design and construction of Environmental Site Design (ESD) small scale storm water facilities by Howard EcoWorks. |















|   |      |   |           |   |       |   |  |       |      |      |         |  |  |         |              |                    |      |  |  |
|---|------|---|-----------|---|-------|---|--|-------|------|------|---------|--|--|---------|--------------|--------------------|------|--|--|
| HO20RST109843                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109844                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.02 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109845                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.02 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109846                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109847                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109848                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109849                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109850                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109851                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109852                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109853                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.02 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109854                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.02 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109855                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109856                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.02 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109857                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.00 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109858                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.02 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109859                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109860                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.02 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109861                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.02 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| HO20RST109862                                     | MRWH | E | PERMANENT | 1 | 0.002 | 1 |  | 0.001 | 0.00 | 0.01 | 0.00143 |  |  | 0.00143 | \$115        | Complete           | 2019 | IA, TP/TSS/TN Reduction  |  |
| C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS |      |   |           |   |       |   |  | 0.00  | 0.00 | 0.00 | 0.00    |  |  | 0.00    | \$14,599,600 | Complete           | 2019 | Flood control, flood damage repair, public education and outreach, historic preservation | This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat. |
| C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS |      |   |           |   |       |   |  | 0.00  | 0.00 | 0.00 | 0.00    |  |  | 0.00    | \$13,911,656 | Complete           | 2020 | Flood control, flood damage repair, public education and outreach, historic preservation | This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat. |
| C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS |      |   |           |   |       |   |  | 0.00  | 0.00 | 0.00 | 0.00    |  |  | 0.00    | \$22,545,670 | Under Construction | 2021 | Flood control, flood damage repair, public education and outreach, historic preservation | This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat. |
| C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS |      |   |           |   |       |   |  | 0.00  | 0.00 | 0.00 | 0.00    |  |  | 0.00    | \$80,150,753 | Design             | 2022 | Flood control, flood damage repair, public education and outreach, historic preservation | This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat. |
| C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS |      |   |           |   |       |   |  | 0.00  | 0.00 | 0.00 | 0.00    |  |  | 0.00    | \$18,530,000 | Planning           | 2023 | Flood control, flood damage repair, public education and outreach, historic preservation | This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat. |
| C0337 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS |      |   |           |   |       |   |  | 0.00  | 0.00 | 0.00 | 0.00    |  |  | 0.00    | \$10,000,000 | Planning           | 2024 | Flood control, flood damage repair, public education and outreach, historic preservation | This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat. |
| D1124 Drainage Improvement Program                |      |   |           |   |       |   |  | 0.00  | 0.00 | 0.00 | 0.00    |  |  | 0.00    | \$550,000    | Design             | 2022 | Drainage improvement   | A project for the design and construction of small to medium-sized drainage improvements requested by County residents and the Bureau of Highways.   |

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| D1124 Drainage Improvement Program       |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$250,000   | Planning | 2024 | Drainage improvement  | A project for the design and construction of small to medium-sized drainage improvements requested by County residents and the Bureau of Highways.   |
| D1124 Drainage Improvement Program       |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$550,000   | Planning | 2026 | Drainage improvement  | A project for the design and construction of small to medium-sized drainage improvements requested by County residents and the Bureau of Highways.   |
| D-1158 WATERSHED MANAGEMENT CONSTRUCTION |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$118,737   | Complete | 2018 | post-flood stream assessments, CLOMR reviews, public outreach and education, MS4 credit calculations  | This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation requirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies. |
| D-1158 WATERSHED MANAGEMENT CONSTRUCTION |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,177,938 | Complete | 2019 | CBT Grant Monitoring, mitigation monitoring, drainage studies and improvements, stream inspections, elevation certificates, public outreach and education, FEMA map revisions, on-site GIS support services, mylar preparation and housekeeping | This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation requirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies. |
| D-1158 WATERSHED MANAGEMENT CONSTRUCTION |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$158,503   | Complete | 2020 | CBT Grant Monitoring, mitigation monitoring, drainage studies and improvements, stream inspections, mylar preparation and housekeeping, debris removal from streams   | This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation requirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies. |



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| D-1158 WATERSHED MANAGEMENT CONSTRUCTION                        |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$199,061   | Under Construction | 2021 | stream inspections, FEMA map revisions, on-site GIS support                     | This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation requirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies. |
| D-1159 STORMWATER MANAGEMENT FACILITY RECONSTRUCTION            |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$701,228   | Complete           | 2018 | Centennial Lake maintenance, post-fold pond repair (Ellicott Woods)             | A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.  |
| D-1159 STORMWATER MANAGEMENT FACILITY RECONSTRUCTION            |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,934,187 | Complete           | 2019 | pond repairs, post-storm clean up   | A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.  |
| D-1159 STORMWATER MANAGEMENT FACILITY RECONSTRUCTION            |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,864,093 | Complete           | 2020 | pond repairs  | A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.  |
| D-1159 STORMWATER MANAGEMENT FACILITY RECONSTRUCTION            |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$85,149    | Under Construction | 2021 | pond repairs  | A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.  |
| D1160 STORMWATER MANAGEMENT RETROFITS                           |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$32,207    | Complete           | 2018 | pond repairs, public outreach and education                                     | A project for the retrofit of stormwater management facilities to include water quality management.  |
| D1160 STORMWATER MANAGEMENT RETROFITS                           |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$66,280    | Complete           | 2019 | public outreach and education, CMAC study                                       | A project for the retrofit of stormwater management facilities to include water quality management.  |
| D1160 STORMWATER MANAGEMENT RETROFITS                           |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$367,000   | Under Construction | 2021 | pond repairs  | A project for the retrofit of stormwater management facilities to include water quality management.  |
| D1161 SHAFFERSVILLE ROAD CULVERT REPLACEMENT                    |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$900,000   | Planning           | 2025 | replace existing culverts   | A project to replace the existing culverts on Shaffersville Road (between Florence Road and Shaffers Mill Road) and on Shaffers Mill Road between Shaffersville Road and Florence Road.  |
| D-1165 Ellicott City Flood Mitigation & Stormwater Enhancements |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,021,549 | Complete           | 2018 | drainage and culvert improvements, post-storm H&H studies, flood repair support | Ellicott City Flood Mitigation & Stormwater Enhancements   |

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| D-1165 Ellicott City Flood Mitigation & Stormwater Enhancements |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,305,915 | Complete           | 2019 | drainage and culvert improvements, wall repairs, debris removal, USACE peer review, property acquisitions for floodplain preservation and hazard mitigation, permitting support, retrofit studies, New Cut Road repair | Ellicott City Flood Mitigation & Stormwater Enhancements   |
| D-1165 Ellicott City Flood Mitigation & Stormwater Enhancements |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,317,776 | Complete           | 2020 | debris removal, drainage improvement, New Cut Road repair  | Ellicott City Flood Mitigation & Stormwater Enhancements   |
| D-1165 Ellicott City Flood Mitigation & Stormwater Enhancements |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,657,000 | Under Construction | 2021 | property acquisitions for floodplain preservation and hazard mitigation, drainage improvement  | Ellicott City Flood Mitigation & Stormwater Enhancements   |
| D-1165 Ellicott City Flood Mitigation & Stormwater Enhancements |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$100,000   | Planning           | 2022 | drainage improvement support   | Ellicott City Flood Mitigation & Stormwater Enhancements   |
| D1168 MORGAN WOODBINE ROAD SLOPE STABILIZATION                  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$225,000   | Complete           | 2019 | stabilization of the roadway embankment  | A project to design and construct stabilization of the roadway embankment of Morgan Woodbine Road adjacent to the South Branch of the Patapsco River.                |
| D1168 MORGAN WOODBINE ROAD SLOPE STABILIZATION                  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$700,000   | Planning           | 2027 | stabilization of the roadway embankment  | A project to design and construct stabilization of the roadway embankment of Morgan Woodbine Road adjacent to the South Branch of the Patapsco River.                |
| D1169 STORM DRAIN CULVERT REPLACEMENT PROGRAM                   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$2,250,000 | Complete           | 2021 | repairs  | This program will provide for the repair and replacement of failed storm drain pipes and culverts.   |
| D1169 STORM DRAIN CULVERT REPLACEMENT PROGRAM                   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$2,250,000 | Design             | 2022 | repairs  | This program will provide for the repair and replacement of failed storm drain pipes and culverts.   |
| D1169 STORM DRAIN CULVERT REPLACEMENT PROGRAM                   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$2,250,000 | Planning           | 2023 | repairs  | This program will provide for the repair and replacement of failed storm drain pipes and culverts.   |
| D1169 STORM DRAIN CULVERT REPLACEMENT PROGRAM                   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$2,250,000 | Planning           | 2024 | repairs  | This program will provide for the repair and replacement of failed storm drain pipes and culverts.   |
| D1169 STORM DRAIN CULVERT REPLACEMENT PROGRAM                   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$2,100,000 | Planning           | 2025 | repairs  | This program will provide for the repair and replacement of failed storm drain pipes and culverts.   |
| D1169 STORM DRAIN CULVERT REPLACEMENT PROGRAM                   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$2,350,000 | Planning           | 2026 | repairs  | This program will provide for the repair and replacement of failed storm drain pipes and culverts.   |
| D1169 STORM DRAIN CULVERT REPLACEMENT PROGRAM                   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$2,300,000 | Planning           | 2027 | repairs  | This program will provide for the repair and replacement of failed storm drain pipes and culverts.   |
| D1175 VALLEY MEDE/CHATHAM FLOOD MITIGATION                      |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,517,203 | Complete           | 2019 | drainage improvement, flood mitigation, property acquisition for floodplain preservation, public safety, and hazard mitigation   | This project is for the study, design and construction of flood mitigation and stormwater waterway improvement efforts in the Valley Mede and Chatham subwatersheds. |
| D1175 VALLEY MEDE/CHATHAM FLOOD MITIGATION                      |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,343,844 | Complete           | 2020 | drainage improvement, flood mitigation, property acquisition for floodplain preservation, public safety, and hazard mitigation   | This project is for the study, design and construction of flood mitigation and stormwater waterway improvement efforts in the Valley Mede and Chatham subwatersheds. |
| D1175 VALLEY MEDE/CHATHAM FLOOD MITIGATION                      |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,494,792 | Under Construction | 2021 | drainage improvement, flood mitigation, property acquisition for floodplain preservation, public safety, and hazard mitigation   | This project is for the study, design and construction of flood mitigation and stormwater waterway improvement efforts in the Valley Mede and Chatham subwatersheds. |
| D1175 VALLEY MEDE/CHATHAM FLOOD MITIGATION                      |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$2,200,000 | Design             | 2022 | drainage improvement, flood mitigation   | This project is for the study, design and construction of flood mitigation and stormwater waterway improvement efforts in the Valley Mede and Chatham subwatersheds. |

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| D1175 VALLEY MEDE/CHATHAM FLOOD MITIGATION          |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$3,200,000 | Design             | 2023 | drainage improvement, flood mitigation  | This project is for the study, design and construction of flood mitigation and stormwater waterway improvement efforts in the Valley Mede and Chatham subwatersheds. |
| D1176-WATERSHED MANAGEMENT CONSTRUCTION             |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$162,233   | Complete           | 2020 | on-site consultant support  | This project is for design and construction of stormwater facility improvements.   |
| D1176-WATERSHED MANAGEMENT CONSTRUCTION             |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$865,009   | Under Construction | 2021 | on-site consultant support, drainage improvement, utility relocations, elevation certificates, public outreach and education, stream monitoring, woody debris removal | This project is for design and construction of stormwater facility improvements.   |
| D1176-WATERSHED MANAGEMENT CONSTRUCTION             |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$300,000   | Design             | 2022 | on-site consultant support, stream monitoring, woody debris removal   | This project is for design and construction of stormwater facility improvements.   |
| D1176-WATERSHED MANAGEMENT CONSTRUCTION             |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,200,000 | Planning           | 2026 | various restoration, maintenance, repair projects   |  |
| D1176-WATERSHED MANAGEMENT CONSTRUCTION             |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,200,000 | Planning           | 2027 | various restoration, maintenance, repair projects   |  |
| D1176-WATERSHED MANAGEMENT CONSTRUCTION             |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,200,000 | Planning           | 2028 | various restoration, maintenance, repair projects   |  |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$155,919   | Complete           | 2020 | pond repairs  | A fund for Howard County to undertake construction or repairs to stormwater management on an as needed basis meeting the provisions of the County Code.              |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$929,441   | Under Construction | 2021 | pond repairs  | A fund for Howard County to undertake construction or repairs to stormwater management on an as needed basis meeting the provisions of the County Code.              |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$6,400,000 | Design             | 2022 | pond repairs  | A fund for Howard County to undertake construction or repairs to stormwater management on an as needed basis meeting the provisions of the County Code.              |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,700,000 | Planning           | 2023 | pond repairs  | A fund for Howard County to undertake construction or repairs to stormwater management on an as needed basis meeting the provisions of the County Code.              |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$4,600,000 | Planning           | 2024 | pond repairs  | A fund for Howard County to undertake construction or repairs to stormwater management on an as needed basis meeting the provisions of the County Code.              |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,500,000 | Planning           | 2025 | pond repairs  | A fund for Howard County to undertake construction or repairs to stormwater management on an as needed basis meeting the provisions of the County Code.              |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$7,000,000 | Planning           | 2026 | pond repairs  |  |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$7,000,000 | Planning           | 2027 | pond repairs  |  |
| D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$7,000,000 | Planning           | 2028 | pond repairs  |  |
| D1178-STORMWATER MANAGEMENT RETROFITS               |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$31,620    | Complete           | 2019 | pond repairs  | A project for the retrofit of stormwater management facilities to include water quality management.  |

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|--|--|--|--|--|--|--|--|------|------|------|------|--|--|------|-------------|--------------------|------|---|--|
| D1178-STORMWATER MANAGEMENT RETROFITS          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$24,525    | Complete           | 2020 | pond repairs                                      | A project for the retrofit of stormwater management facilities to include water quality management.                                    |
| D1178-STORMWATER MANAGEMENT RETROFITS          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$300,000   | Design             | 2022 | pond repairs                                      | A project for the retrofit of stormwater management facilities to include water quality management.                                    |
| D1178-STORMWATER MANAGEMENT RETROFITS          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$300,000   | Planning           | 2023 | pond repairs                                      | A project for the retrofit of stormwater management facilities to include water quality management.                                    |
| D1178-STORMWATER MANAGEMENT RETROFITS          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,100,000 | Planning           | 2024 | pond repairs                                      | A project for the retrofit of stormwater management facilities to include water quality management.                                    |
| D1178-STORMWATER MANAGEMENT RETROFITS          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,100,000 | Planning           | 2025 | pond repairs                                      | A project for the retrofit of stormwater management facilities to include water quality management.                                    |
| D1178-STORMWATER MANAGEMENT RETROFITS          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,100,000 | Planning           | 2026 | pond repairs                                      | A project for the retrofit of stormwater management facilities to include water quality management.                                    |
| D1178-STORMWATER MANAGEMENT RETROFITS          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,100,000 | Planning           | 2027 | pond repairs                                      | A project for the retrofit of stormwater management facilities to include water quality management.                                    |
| D1178-STORMWATER MANAGEMENT RETROFITS          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$1,100,000 | Planning           | 2028 | pond repairs                                      |  |
| D1180 TIBER WATERSHED IMPROVEMENTS             |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$500,000   | Design             | 2021 | various restoration, maintenance, repair projects | A project for the design and construction of varying sized drainage and stormwater management projects within the Tiber Watershed.     |
| D1180 TIBER WATERSHED IMPROVEMENTS             |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$500,000   | Planning           | 2024 | various restoration, maintenance, repair projects | A project for the design and construction of varying sized drainage and stormwater management projects within the Tiber Watershed.     |
| D1181 PLUM TREE WATERSHED IMPROVEMENTS         |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$400,000   | Design             | 2021 | various restoration, maintenance, repair projects | A project for the design and construction of varying sized drainage and stormwater management projects within the Plum Tree Watershed. |
| D1181 PLUM TREE WATERSHED IMPROVEMENTS         |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$400,000   | Planning           | 2023 | various restoration, maintenance, repair projects | A project for the design and construction of varying sized drainage and stormwater management projects within the Plum Tree Watershed. |
| D1182 ORCHARD RIDGE DRAINAGE IMPROVEMENTS      |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$575,000   | Under Construction | 2021 | various restoration, maintenance, repair projects | This project is for the design and construction of drainage and stormwater managementv improvements in the Orchard Ridge community.    |
| D1182 ORCHARD RIDGE DRAINAGE IMPROVEMENTS      |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$500,000   | Planning           | 2022 | various restoration, maintenance, repair projects | This project is for the design and construction of drainage and stormwater managementv improvements in the Orchard Ridge community.    |
| D1182 ORCHARD RIDGE DRAINAGE IMPROVEMENTS      |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$350,000   | Planning           | 2023 | various restoration, maintenance, repair projects | This project is for the design and construction of drainage and stormwater managementv improvements in the Orchard Ridge community.    |
| Annual Report Support                          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$265,936   | Complete           | 2019 |   |  |
| GIS Support                                    |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$47,160    | Complete           | 2019 |   |  |
| On-Site Consultants                            |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$200,000   | Complete           | 2019 |   |  |
| Annual Report Support                          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$125,000   | Complete           | 2020 |   |  |
| GIS Support                                    |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$413,244   | Complete           | 2020 |   |  |
| On-Site Consultants                            |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$200,000   | Complete           | 2020 |   |  |
| Annual Report Support                          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$125,000   | Under Construction | 2021 |   |  |
| GIS Support                                    |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$300,000   | Under Construction | 2021 |   |  |
| On-Site Consultants                            |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$200,000   | Under Construction | 2021 |   |  |
| Annual Report Support                          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$125,000   | Planning           | 2022 |   |  |
| BMP Inspection Services, supplies and vehicles |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$627,000   | Planning           | 2022 |   |  |

|   |  |  |  |  |  |  |  |      |      |      |      |  |  |      |           |                    |      |          |
|---|--|--|--|--|--|--|--|------|------|------|------|--|--|------|-----------|--------------------|------|----------|
| Flood Warning System  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$92,000  | Planning           | 2022 |          |
| GIS Support   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$205,000 | Planning           | 2022 |          |
| IDDE - consultant   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$35,000  | Planning           | 2022 |          |
| NPDES Monitoring  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$219,000 | Planning           | 2022 |          |
| On-Site Consultants   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$200,000 | Planning           | 2022 |          |
| Opti contract   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,000   | Planning           | 2022 |          |
| PCB Implementation Plan   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$68,000  | Under Construction | 2022 | PCB      |
| Rain Barrel supplies  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,000   | Planning           | 2022 |          |
| Watershed Enhancement Grants  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$160,000 | Planning           | 2022 |          |
| Annual Report Support   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$125,000 | Planning           | 2023 |          |
| Bacteria Monitoring 2021-2022   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$100,000 | Planning           | 2023 | bacteria |
| Bacteria Monitoring Plan  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$10,000  | Planning           | 2023 | bacteria |
| BMP Inspection Services, supplies and vehicles                          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$627,000 | Planning           | 2023 |          |
| CIS 2023 Update (Annual Countywide Stormwater TMDL Implementation Plan) |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$100,000 | Planning           | 2023 |          |
| Flood Warning System  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$92,000  | Planning           | 2023 |          |
| GIS Support   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$130,000 | Planning           | 2023 |          |
| IDDE - consultant   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$35,000  | Planning           | 2023 |          |
| IDDE SOPs   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$10,000  | Planning           | 2023 |          |
| Litter Control Program  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$10,000  | Planning           | 2023 |          |
| Monitoring tasks  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$255,000 | Complete           | 2020 |          |
| Monitoring tasks  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$50,000  | Planning           | 2023 |          |
| NPDES Monitoring  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$219,000 | Planning           | 2023 |          |
| On-Site Consultants   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$200,000 | Planning           | 2023 |          |
| Opti contract   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,000   | Planning           | 2023 |          |
| PCB Initial Monitoring  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$50,000  | Planning           | 2023 | PCB      |
| Pooled Monitoring   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$250,000 | Planning           | 2023 |          |
| Public Outreach   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$25,000  | Planning           | 2023 |          |
| Rain Barrel supplies  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,000   | Planning           | 2023 |          |
| Watershed Enhancement Grants  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$160,000 | Planning           | 2023 |          |
| Annual Report Support   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$125,000 | Planning           | 2024 |          |
| BMP Inspection Services, supplies and vehicles                          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$627,000 | Planning           | 2024 |          |
| Flood Warning System  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$92,000  | Planning           | 2024 |          |
| GIS Support   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$130,000 | Planning           | 2024 |          |
| IDDE - consultant   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$35,000  | Planning           | 2024 |          |
| NPDES Monitoring  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$219,000 | Planning           | 2024 |          |
| On-Site Consultants   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$200,000 | Planning           | 2024 |          |
| Opti contract   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,000   | Planning           | 2024 |          |
| PCB Secondary Monitoring  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$150,000 | Planning           | 2024 | PCB      |
| Rain Barrel supplies  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,000   | Planning           | 2024 |          |
| Watershed Enhancement Grants  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$160,000 | Planning           | 2024 |          |
| Annual Report Support   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$125,000 | Planning           | 2025 |          |
| BMP Inspection Services, supplies and vehicles                          |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$627,000 | Planning           | 2025 |          |
| Easement Research & GIS   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$500,000 | Planning           | 2025 |          |
| Flood Warning System  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$92,000  | Planning           | 2025 |          |
| GIS Support   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$130,000 | Planning           | 2025 |          |
| Good Housekeeping Plans   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$100,000 | Planning           | 2025 |          |
| IDDE - consultant   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$35,000  | Planning           | 2025 |          |
| NPDES Monitoring  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$219,000 | Planning           | 2025 |          |
| On-Site Consultants   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$200,000 | Planning           | 2025 |          |
| Opti contract   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,000   | Planning           | 2025 |          |
| Rain Barrel supplies  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$5,000   | Planning           | 2025 |          |
| Salt Management Plan  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$100,000 | Planning           | 2025 |          |
| Watershed Enhancement Grants  |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$160,000 | Planning           | 2025 |          |
| Annual Report Support   |  |  |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 |  |  | 0.00 | \$125,000 | Planning           | 2026 |          |

|  |  |  |              |  |  |  |                |                     |                 |                |            |            |                |                      |          |      |  |  |
|--|--|--|--------------|--|--|--|----------------|---------------------|-----------------|----------------|------------|------------|----------------|----------------------|----------|------|--|--|
| BMP Inspection Services, supplies and vehicles   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$627,000            | Planning | 2026 |  |  |
| Flood Warning System   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$92,000             | Planning | 2026 |  |  |
| GIS Support  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$130,000            | Planning | 2026 |  |  |
| IDDE - consultant  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$35,000             | Planning | 2026 |  |  |
| NPDES Monitoring   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$219,000            | Planning | 2026 |  |  |
| On-Site Consultants  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$200,000            | Planning | 2026 |  |  |
| Opti contract  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$5,000              | Planning | 2026 |  |  |
| Rain Barrel supplies   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$5,000              | Planning | 2026 |  |  |
| Watershed Enhancement Grants   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$160,000            | Planning | 2026 |  |  |
| Annual Report Support  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$125,000            | Planning | 2027 |  |  |
| BMP Inspection Services, supplies and vehicles   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$627,000            | Planning | 2027 |  |  |
| Flood Warning System   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$92,000             | Planning | 2027 |  |  |
| GIS Support  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$130,000            | Planning | 2027 |  |  |
| IDDE - consultant  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$35,000             | Planning | 2027 |  |  |
| NPDES Monitoring   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$219,000            | Planning | 2027 |  |  |
| On-Site Consultants  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$200,000            | Planning | 2027 |  |  |
| Opti contract  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$5,000              | Planning | 2027 |  |  |
| Rain Barrel supplies   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$5,000              | Planning | 2027 |  |  |
| Watershed Enhancement Grants   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$160,000            | Planning | 2027 |  |  |
| Annual Report Support  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$125,000            | Planning | 2028 |  |  |
| BMP Inspection Services, supplies and vehicles   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$627,000            | Planning | 2028 |  |  |
| Flood Warning System   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$92,000             | Planning | 2028 |  |  |
| GIS Support  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$130,000            | Planning | 2028 |  |  |
| IDDE - consultant  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$35,000             | Planning | 2028 |  |  |
| NPDES Monitoring   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$219,000            | Planning | 2028 |  |  |
| On-Site Consultants  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$200,000            | Planning | 2028 |  |  |
| Opti contract  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$5,000              | Planning | 2028 |  |  |
| Rain Barrel supplies   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$5,000              | Planning | 2028 |  |  |
| Storm Drain System Verification  |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$1,100,000          | Planning | 2028 |  |  |
| Watershed Enhancement Grants   |  |  |              |  |  |  | 0.00           | 0.00                | 0.00            | 0.00           |            |            | 0.00           | \$160,000            | Planning | 2028 |  |  |
| Subtotal Other (up to 2026)  |  |  | 398          |  |  |  | 0.4            | 0.0                 | 5.4             | 8.9            | 0.0        | 0.0        | 8.9            | \$249,550,236        |          |      |  |  |
| <b>Total for Next Permit (up to 2026)</b>  |  |  | <b>597</b>   |  |  |  | <b>4,215.3</b> | <b>11,208,962.2</b> | <b>8,480.2</b>  | <b>1,365.6</b> | <b>0.0</b> | <b>0.0</b> | <b>1,365.6</b> | <b>\$340,392,206</b> |          |      |  |  |
| <b>Total for Next Permit and Projected Years</b>   |  |  | <b>612</b>   |  |  |  | <b>4,215.3</b> | <b>11,208,962.2</b> | <b>8,480.2</b>  | <b>1,367.6</b> | <b>0.0</b> | <b>0.0</b> | <b>1,367.6</b> | <b>\$367,088,206</b> |          |      |  |  |
| <b>Total for Remaining Obligations from The Previous Permit, Continued Obligations, and Proposed Activities for The Next Permit (up to 2026)</b> |  |  | <b>1,674</b> |  |  |  | <b>5,682.2</b> | <b>11,649,029.1</b> | <b>10,522.8</b> | <b>1,925.0</b> | <b>0.0</b> | <b>0.0</b> | <b>1,925.0</b> | <b>\$340,867,206</b> |          |      |  |  |
| <b>Total for Remaining Obligations from The Previous Permit, Continued Obligations, and Proposed Activities for The Next Permit (up to 2028)</b> |  |  | <b>1,366</b> |  |  |  | <b>5,682.2</b> | <b>11,649,029.1</b> | <b>10,522.8</b> | <b>1,927.0</b> | <b>0.0</b> | <b>0.0</b> | <b>1,927.0</b> | <b>\$367,563,206</b> |          |      |  |  |

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SECTION 4:  
FINANCIAL CAPACITY ANALYSIS

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**Howard County, Maryland**  
**Maximum Extent Practicable (MEP) Analysis**  
**Financial Capacity Analysis**

**July 7, 2021**

Evaluating the financial capacity of a local jurisdiction to perform all stormwater services, is an important factor in determining the maximum extent practicable (MEP) level of implementation for Phase I Medium municipal separate storm sewer system (MS4) permittees. A jurisdiction's financial capacity can be informed by characterizing the economic conditions of the community, estimating the per household municipal costs and expenditures, and characterizing the financial wherewithal of its government to pay for stormwater-related services.

Howard County's sources of revenue used to pay for stormwater-related services include a combination of a dedicated fee; general property and income tax revenues; grants and loans; and bond sales. Adequately managing these funding sources is critical to the level of stormwater services provided. The data shown in the Financial Capacity Analysis (FCA) spreadsheet (Attachment 6) and the narrative responses to the questions below help describe Howard County's MEP for performing stormwater-related services; economic status and its ability to afford these services; and its capacity to generate funds for these services.

**1. What was the prior per household municipal cost of stormwater services and restoration activities for a jurisdiction's residents?**

This cost includes the past restoration costs and the costs of infrastructure maintenance and repair, inspection and education program costs - both capital and operational.

**a. What was the estimated annual municipal cost of providing stormwater-related management services to residential customers?**

The estimated average annual municipal cost of providing stormwater-related management services to residential customers was \$42,608,400.75 (FCA 2c). The municipal annual cost per household for stormwater-related services provided to the residential community in the past 5-year permit term was \$373.20 (FCA 2d), which is 0.31% (FCA 2e) of the median household income value of \$121,160 (MHI) (FCA 2a).

The percent of income for low income households spent on public stormwater-related management programs was 1.49% (FCA 4b), which disproportionately impacts lower income households.

**b. What is the estimated annual cost of the stormwater remediation fee to residential customers?**

Residents were charged a Watershed Protection and Restoration Fee averaging \$40.17 per household annually (FCA 2f), which is 0.03% (FCA 2g) of the median household income (MHI) (FCA 2a).

The percent of income for low income households spent on stormwater remediation fees was 0.16% (FCA 4c), which disproportionately impacts lower income households.



**c. What was the annual cost of the impervious surface restoration plan (ISRP) to residential customers?**

The total cost of the ISRP during the previous permit term was \$56,836,251 (FCA 3a), and the average annual cost was \$5,982,763.26 (FCA 3b). The annual cost of the ISRP per household was \$52.40 (FCA 3c), which is approximately 0.04% of MHI (FCA 3d).

The percent of income for low income households spent on ISRP was 0.21% (FCA 4d), which disproportionately impacts lower income households.

**d. What is the projected annual cost of the proposed restoration portfolio to residential customers?**

The projected total cost of the proposed restoration portfolio is \$340,867,206 (FCA 3e), and the projected average annual cost is \$42,608,400.75 (FCA 3f). The projected annual restoration portfolio cost that may be paid by each household is \$373.20 (FCA 3g), which is 0.31% of the MHI (FCA 3h). The percent of MHI for low income households projected to be spent on the cost of the restoration portfolio is 1.49% (FCA 4e), which disproportionately impacts lower income households.

The percent of MHI for the previous permit term's ISRP, 0.04% (FCA 3d), is less than the percent of MHI for the proposed restoration portfolio, 0.31% (FCA 3h).

**2. How do socioeconomic factors characterize the economic health of a jurisdiction? Are there indications that there are vulnerable populations in a jurisdiction that need to be considered?**

*Information on income distribution in a jurisdiction can be used to determine if lower income populations are disproportionately impacted by the costs of stormwater services. Household income statistics are broken down in the Census Data to help with this evaluation. While this low income indicator is important, many jurisdictions have programs to reduce the cost of these stormwater services.*

**a. How does the percent unemployed compare to the national average?**

*An unemployment percentage of greater than 1% above the national average is a local economic indicator that helps to show how stormwater costs may impact the unemployed. This 1% parameter comes from the U.S. Environmental Protection Agency's 1997 "Combined Sewer Overflows – Guidance for Financial Capability Assessment and Schedule Development"<sup>4</sup> (hereafter referred to as EPA's CSO Guidance).*

Because the percent unemployed in Howard County is 2.7% (FCA 5a), which is the same as the national average reported in the American Community Survey (ACS), the unemployed do not appear to be disproportionately impacted by stormwater costs.

**b. How does the MHI compare to the national average?**

*Although the MHI does not specifically represent impacts of costs on lower income residents, comparing the MHI to the national average shows the overall earning capacity in a jurisdiction and provides additional information on the economic conditions of the residential community. According to the EPA's CSO Guidance, if the MHI of the community is more than 25% below the national average, the community would be considered economically vulnerable.*

Howard County's MHI is \$121,160 (FCA 2a and 5b), which is 193% greater than the national average of \$62,843.00.

**c. What is the percentage of individuals below the poverty level and how does it compare to the national average?**

*The U.S. Census Bureau uses family size and income thresholds to determine estimates for the percentage of families and people whose income is below the poverty level. This information can be used to describe the percentage of individuals in a jurisdiction that are below the poverty level compared to the national average. Percentages greater than 1% above the national average may indicate that a jurisdiction has a greater number of residents in poverty.*

The percentage of individuals below the poverty level in Howard County is 5% (FCA 5c), which is less than half of the national average of 13.4%.

**d. Are there any methods in place to reduce the annual cost of public stormwater-related services? Is a method in place to reduce the annual cost of stormwater-related services for low income residential customers?**

*Based on the answers in questions 1a, 1b, 1c, and 1d of this document, the costs on low income residents for providing stormwater-related services may be a large percentage of household income. Using the answers to questions 2a and 2c of this document, as well as the calculated cost for stormwater-related services on low income residents, describe all methods in place to reduce the cost on vulnerable populations. Additionally, have fee reduction requests from low income households impacted water or stormwater service revenues?*

Howard County has been and continues to actively pursue state and federal grants to fund stormwater-related projects and services. Since taking office, County Executive Ball has worked with partners at the state and federal level to secure more than \$16 million in funding for the Ellicott City Safe and Sound flood mitigation plan (<https://www.ecsafeandsound.org/flood-mitigation-options>).

The State and Federal grants provide for additional public improvements without additional debt burdens on County residents. The County also offers Watershed Protection Fee Hardship Tax Credit which provides for a 60% credit of the fee.

**3. What is the financial capacity of a jurisdiction to borrow additional funds for stormwater-related management programs?**

*The ability of a jurisdiction to borrow additional funds can provide further information on how stormwater-related cost represents the community's MEP. The General Obligation (GO) and revenue bond ratings as well as the net debt as a percentage of full market property value (FMPV) all indicate how a jurisdiction fares in reference to debt. Known as debt burden, this information can characterize a jurisdiction's ability to issue additional debt to finance stormwater-related services.*

**a. Does the GO bond rating indicate a strong borrowing capacity?**

*GO bond ratings represent the ability of a jurisdiction to repay its debt. GO bond debt is paid by revenue from taxes (usually local property taxes). Revenue from the sale of GO bonds are the primary long-term*

*debt funding mechanism of a community. Moody's ratings of Aaa, Aa, and A, or Standard & Poor's ratings of AAA, AA, and A indicate a financially stable jurisdiction.*

Howard County has a Aaa GO bond rating (FCA 6a), a strong borrowing capacity and ability to repay its debt.

**b. Does the revenue bond rating indicate a strong borrowing capacity?**

*Revenue bond ratings reflect the financial conditions and management of a jurisdiction. These bonds are repaid from revenue generated from user or service fees. Moody's ratings of Aaa, Aa, and A, or Standard & Poor's ratings of AAA, AA, and A indicate a financially stable jurisdiction.*

Howard County does not have a revenue bond rating (FCA 6b).

**c. Have either one of the bond ratings impacted past borrowing capacity and is there a potential for impacts to future borrowing?**

*A strong borrowing capacity will indicate a jurisdiction's ability to sufficiently borrow funds to pay for stormwater-related services. A weaker borrowing capacity will show a jurisdiction may be limited in the ability to increase debt to fund additional projects. Based on the bond ratings, jurisdictions should explain how borrowing during the previous permit term was impacted by bond ratings. The jurisdiction should also explain how borrowing during the next permit term could be impacted by current bond ratings.*

Howard County has received the highest possible credit rating, AAA, from all three bond rating agencies for 24 consecutive years. This acknowledges the County's sizable and wealthy tax base, sound fiscal policies, and fiscal management. As all three credit rating agencies provided a stable outlook, the County continues to take a conservative and prudent approach, adhering to its policies, and does not anticipate any negative impacts to future borrowing.

**d. Net debt as a percentage of FMPV?**

*Net debt is debt repaid by property taxes. The FMPV is the price a willing buyer would pay for real property and in this context it represents the full market value of real property in the jurisdiction. The calculated net debt as a percentage of FMPV provides a measurement of the debt burden on residents. It accounts for all debt issued by the jurisdiction and can be compared to a benchmark found in EPA's CSO Guidance to serve as an indicator of financial stability.*

Howard County has a net debt as a percentage of FMPV of 2.29% (FCA 6c). The County Charter limits outstanding general county debt to 4.8% of the assessed value of real and personal property. This measure is also included in S&P and Moody's credit rating criteria. Howard County continues to adhere to its Debt Management policy, with net debt well below the 4.8% limit.

**4. How great is the tax burden on existing properties within the community?**

*Financial management indicators help determine how great the tax burden is on existing properties within the community. These indicators can show whether a jurisdiction has a relatively high or low tax rate, which would indicate potential for concern if additional fees are added.*

**a. What is the property tax revenue collection rate and does it indicate a large amount of contributions from the tax base?**

*The property tax revenue collection rate serves as a measurement of tax collection system performance and residents' acceptance of tax levels. The rate can be compared to an EPA CSO Guidance benchmark to indicate performance. A collection rate above 98% would be indicative of strong performance. A poor collection rate would be indicative of a tax structure that is burdensome on the residential population of the jurisdiction.*

The property tax revenue collection rate for Howard County is 99.25% (FCA 6e), indicating a large amount of contributions from the tax base.

**b. Do the property tax revenues as a percentage of FMPV indicate that additional fees would cause an increased strain on the community?**

*The property tax revenues as a percentage of FMPV can be used to characterize the financial ability of a jurisdiction to support debt. This comparison also provides information on how effective the local government is in providing services. A value below 2% indicates a financially strong community.*

The property tax revenues as a percentage of FMPV for Howard County is 1.22% (FCA 6d), indicating a financially strong community.

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ATTACHMENT 1:  
PROJECT SCHEDULE

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ATTACHMENT 2:  
CAPITAL BUDGET FY2022

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## Project: C0337-FY2014 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS

### Description

This is a project to provide a variety of repairs and improvements to public infrastructure and address other community improvements and to make improvements to the downtown and historic district of the Howard County Seat. This project may include land acquisition for water quality and drainage needs and other public improvements.

### Justification

Community has requested improvements to the downtown Ellicott City area for flood mitigation. The work effort will be done to implement the Safe and Sound Plan.

### Remarks

- 1.TAO #3 - 2014 current pending legislation will add \$100,000 grant funding for Ellicott City Streetscape program.
- 2.Construction of some projects may be dependent on the donation of the necessary easements and-or property owner cost share participation.
3. OTHER SOURCES revenue represents homeowner contribution
- 4.WATER QUALITY LOANS represents Water Infrastructure Finance and Innovation Act of 2014 (WIFIA) loan, which has a 30-year term, favorable rate and debt payment start date of 5 years after loan closing.
5. GRANT represents anticipated FEMA and State funding for Ellicott City.
- 6.Project implementation of the various improvements included in the Safe and Sound Plan may be adjusted depending on contract negotiations, land acquisition success and regulations|permit approvals.

### Project Schedule

FY22 - Construction: Pond H7, Quaker Mill pond, Maryland Avenue culverts, lower Main Street building work.

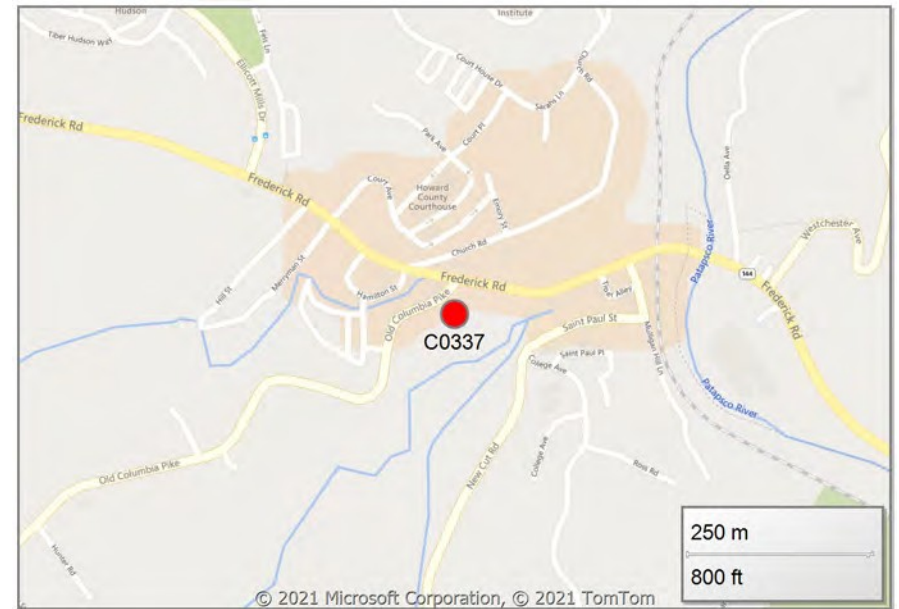
FY22 - Design: North tunnel and NC-3 pond.

Continue building acquisition-removal of those in most vulnerable areas (as needed).

### Operating Budget Impact

No Operating Impact

|  |             |
|--|-------------|
| FY2022 Bonds - Annual Debt Service Payment               | 3,336,667   |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 66,733,343  |
| Total Project Bonds - Annual Debt Service Payment        | 7,923,679   |
| Total Project Bonds - 20-Year Total Debt Service Payment | 158,473,583 |



### Explanation of Changes

Scope definition and timeline of project account for cost increase.



# Fiscal 2022 Capital Budget

# GENERAL COUNTY PROJECTS

## Project: C0337-FY2014 ELLICOTT CITY IMPROVEMENTS and ENHANCEMENTS

| (In Thousands)                  | Five Year Capital Program |               |                |               |               |             |             |             |               |             | Master Plan |             |             |                |
|---------------------------------|---------------------------|---------------|----------------|---------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|----------------|
|                                 | Prior Appr.               | FY2022 Budget | Appr. Total    | Fiscal 2023   | Fiscal 2024   | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total     | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project  |
| PLANS & ENGINEERING             | 8,450                     | 1,000         | 9,450          | 0             | 0             | 0           | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 9,450          |
| LAND ACQUISITION                | 18,600                    | 0             | 18,600         | 1,600         | 0             | 0           | 0           | 0           | 1,600         | 0           | 0           | 0           | 0           | 20,200         |
| CONSTRUCTION                    | 30,621                    | 88,820        | 119,441        | 16,930        | 10,500        | 0           | 0           | 0           | 27,430        | 0           | 0           | 0           | 0           | 146,871        |
| ADMINISTRATION                  | 400                       | 0             | 400            | 0             | 0             | 0           | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 400            |
| <b>Total Expenditures</b>       | <b>58,071</b>             | <b>89,820</b> | <b>147,891</b> | <b>18,530</b> | <b>10,500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>29,030</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>176,921</b> |
| BONDS                           | 38,675                    | 0             | 38,675         | 3,530         | 10,500        | 0           | 0           | 0           | 14,030        | 0           | 0           | 0           | 0           | 52,705         |
| DEVELOPER CONTRIBUTION          | 165                       | 0             | 165            | 0             | 0             | 0           | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 165            |
| GRANTS                          | 16,726                    | 8,870         | 25,596         | 0             | 0             | 0           | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 25,596         |
| OTHER SOURCES                   | 5                         | 0             | 5              | 0             | 0             | 0           | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 5              |
| PAY AS YOU GO                   | 1,000                     | 5,950         | 6,950          | 15,000        | 0             | 0           | 0           | 0           | 15,000        | 0           | 0           | 0           | 0           | 21,950         |
| WATER QUALITY STATE OR FED LOAN | 0                         | 75,000        | 75,000         | 0             | 0             | 0           | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 75,000         |
| STORMWATER UTILITY FUNDING      | 1,500                     | 0             | 1,500          | 0             | 0             | 0           | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 1,500          |
| <b>Total Funding</b>            | <b>58,071</b>             | <b>89,820</b> | <b>147,891</b> | <b>18,530</b> | <b>10,500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>29,030</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>176,921</b> |

**\$34,233,369 spent and encumbered through February 2021**

**\$28,570,917 spent and encumbered through February 2020**

**Project Status** TAO#1-2019 Transfer in \$15,981,000

Design - Parking Lot F imprv, Ellicott Mills Dr WQ bumpout, Main St crosswalks, H4 and NC-3 ponds, Maryland Avenue culverts, North Tunnel (preliminary engineering).

Construction complete - Parking Lot E improvements (partial funding), wall repairs for Court Ave, Tonge Row, Lot E northeast corner, Precious Gifts, Main St at 84" culvert, Main St repaving, Courthouse Dr slope repair, Fels La drainage improvements, Ellicott Mills Dr roadway replacement, Rogers Ave storm drain improvements, St. Luke Church slope, relocation of log cabin, miscellaneous sidewalk repairs, stabilization of Caplans.

Other - Stream wall inspections, acquisition and stabilization process in the most vulnerable areas, St Luke Church slope repair.

|                        |        |        |               |          |       |   |          |         |                 |          |   |   |   |                |
|------------------------|--------|--------|---------------|----------|-------|---|----------|---------|-----------------|----------|---|---|---|----------------|
| FY 2021 Budget         | 58,071 | 2,000  | <b>60,071</b> | 55,100   | 1,450 | 0 | 29,550   | 1,000   | <b>87,100</b>   | 13,000   | 0 | 0 |   | <b>160,171</b> |
| Difference 2021 / 2022 | 0      | 87,820 | <b>87,820</b> | (36,570) | 9,050 | 0 | (29,550) | (1,000) | <b>(58,070)</b> | (13,000) | 0 | 0 | 0 | <b>16,750</b>  |

Scope definition and timeline of project account for cost increase.

March 29, 2021

Howard County, MD

Version : Executive Proposed

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1124-FY2007 DRAINAGE IMPROVEMENT PROGRAM

### Description

A project for the design and construction of small to medium-sized drainage improvements requested by County residents and the Bureau of Highways.

### Justification

Create improved drainage to safely convey surface runoff, to stop flow onto residential properties or to protect the traveled way.

### Remarks

- 1.SDFUND represents Storm Drainage developer contributions derived as a result of 16.133e of the County Code.
- 2.Construction of some projects may be dependent upon donation of the necessary easements and-or resident cost share participation.
- 3.After initial investigation, projects over \$250,000 in construction costs may be split out as a separate Capital Project.
4. OTHER funds are resident cost share.
- 5.Prior to FY20, project included assistance with debris removal and assessment of flood mitigation opportunities in the Allview area.
6. Funding request represents program advancement.

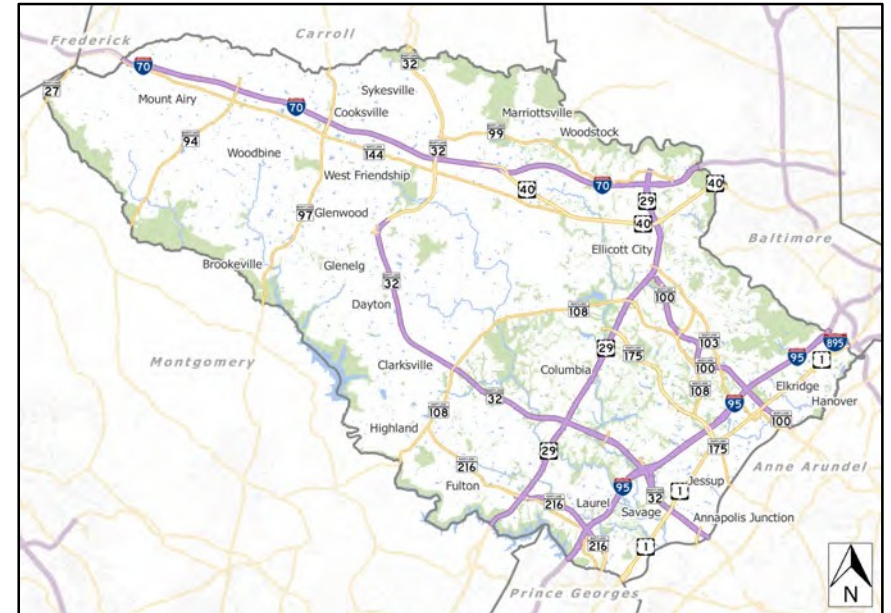
### Project Schedule

Program

### Operating Budget Impact

Estimated annual maintenance costs upon completion: Decrease.

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 41,995    |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 839,902   |
| Total Project Bonds - Annual Debt Service Payment        | 337,870   |
| Total Project Bonds - 20-Year Total Debt Service Payment | 6,757,396 |



### Explanation of Changes

Cost decrease reflects programming actual projects in out years.

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1124-FY2007 DRAINAGE IMPROVEMENT PROGRAM

| (In Thousands)            | Five Year Capital Program |               |              |             |             |             |             |             |            |             | Master Plan |             |             |               |
|---------------------------|---------------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total  | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total  | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING       | 1,555                     | 120           | 1,675        | 0           | 40          | 0           | 120         | 0           | 160        | 0           | 0           | 0           | 0           | 1,835         |
| LAND ACQUISITION          | 195                       | 20            | 215          | 0           | 10          | 0           | 20          | 0           | 30         | 0           | 0           | 0           | 0           | 245           |
| CONSTRUCTION              | 2,750                     | 410           | 3,160        | 0           | 200         | 0           | 410         | 0           | 610        | 0           | 0           | 0           | 0           | 3,770         |
| ADMINISTRATION            | 10                        | 0             | 10           | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 10            |
| <b>Total Expenditures</b> | <b>4,510</b>              | <b>550</b>    | <b>5,060</b> | <b>0</b>    | <b>250</b>  | <b>0</b>    | <b>550</b>  | <b>0</b>    | <b>800</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>5,860</b>  |
| BONDS                     | 3,075                     | 550           | 3,625        | 0           | 250         | 0           | 550         | 0           | 800        | 0           | 0           | 0           | 0           | 4,425         |
| OTHER SOURCES             | 10                        | 0             | 10           | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 10            |
| PAY AS YOU GO             | 250                       | 0             | 250          | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 250           |
| STORM DRAINAGE FUND       | 1,175                     | 0             | 1,175        | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 1,175         |
| <b>Total Funding</b>      | <b>4,510</b>              | <b>550</b>    | <b>5,060</b> | <b>0</b>    | <b>250</b>  | <b>0</b>    | <b>550</b>  | <b>0</b>    | <b>800</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>5,860</b>  |

**\$3,376,460 spent and encumbered through February 2021**

**\$3,364,023 spent and encumbered through February 2020**

**Project Status** FY21 - There are several requests waiting to be started and will be addressed in turn as other work is completed.

Investigation underway: Sylvan Lane (N. of Church Rd), Hyla Brook, 11000 blk Triadelphia Rd.

Investigation complete: Watch Chain Way, Hale Haven improvements, Lime Kiln Rd Culvert, Gudel Drive, Windermere, Walker Drive, Deerfield, Harriett Tubman

Design and/or Land acquisition in progress: Globe Drive improvements, 7300 block of Montgomery Road easement.

Construction complete: Woodside Court, Fels Lane, Ordway Drive, Frederick Rd Slope, Maple Rock Drive, Frederick Road slope, US 40 Landscaping, Little Patuxent and Allview Debris Removal, Cradlerock Way channel wall, Abel St (Phase I and 2), Montgomery Road, Patuxent Range Road, Beechfield Avenue.

|                        |       |       |              |   |       |   |       |   |              |   |   |   |   |              |
|------------------------|-------|-------|--------------|---|-------|---|-------|---|--------------|---|---|---|---|--------------|
| FY 2021 Budget         | 4,510 | 675   | <b>5,185</b> | 0 | 675   | 0 | 675   | 0 | <b>1,350</b> | 0 | 0 | 0 |   | <b>6,535</b> |
| Difference 2021 / 2022 | 0     | (125) | <b>(125)</b> | 0 | (425) | 0 | (125) | 0 | <b>(550)</b> | 0 | 0 | 0 | 0 | <b>(675)</b> |

March 25, 2021

Howard County, MD

Version : Executive Proposed

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1148-FY2007 NPDES WATERSHED MANAGEMENT PROGRAM

### Description

A project for permitting and implementing the requirements of the National Pollutant Discharge Elimination System (NPDES) to detect and reduce pollutants in stormwater system discharges and to perform studies related to storm water utility financing.

### Justification

This project is necessary to comply with the Federal Government's Clean Water Act.

### Remarks

1. This project replaces Capital Project D1115.
2. A five-year renewal NPDES permit was issued by MDE in June 2005.
3. The County was issued a new five-year permit on December 18, 2014.
4. OTHER funding represents - A portion of funding generated from legislation CB-8 & CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.

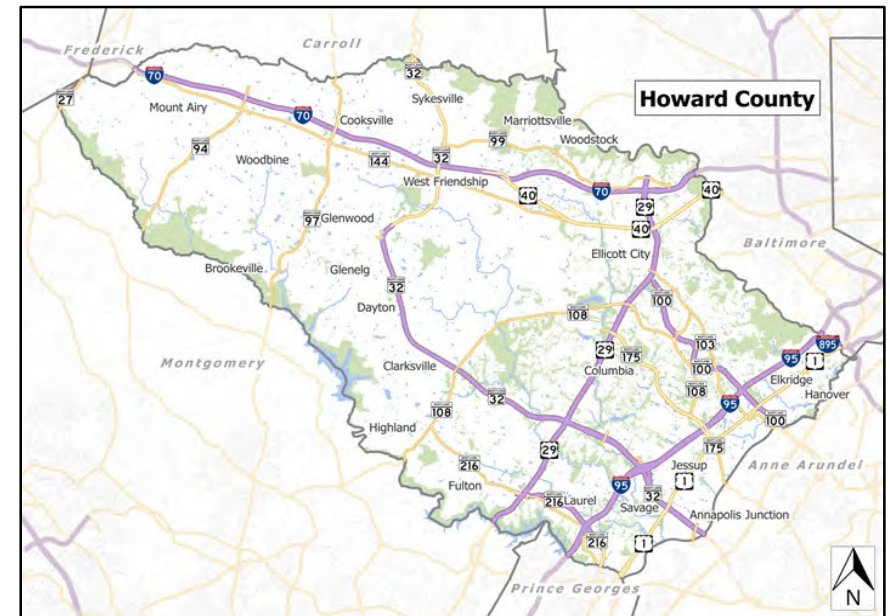
### Project Schedule

FY22 - Perform work to assess and address Total Maximum Daily Loads (TMDL) and Watershed Implementation Plan (WIP) requirements to meet NPDES permit conditions. Continue database development for NPDES reporting requirements. Prepare documentation necessary to apply for next permit. Perform PCB and bacteria monitoring to address TMDL requirements.

### Operating Budget Impact

No Operating Impact

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 0         |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0         |
| Total Project Bonds - Annual Debt Service Payment        | 288,621   |
| Total Project Bonds - 20-Year Total Debt Service Payment | 5,772,420 |



### Explanation of Changes

Cost increase reflects additional effort to address permit conditions.

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1148-FY2007 NPDES WATERSHED MANAGEMENT PROGRAM

| (In Thousands)             | Five Year Capital Program |               |              |             |             |             |             |             |            |             | Master Plan |             |             |               |
|----------------------------|---------------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|
|                            | Prior Appr.               | FY2022 Budget | Appr. Total  | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total  | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING        | 6,720                     | 300           | 7,020        | 300         | 300         | 0           | 0           | 0           | 600        | 0           | 0           | 0           | 0           | 7,620         |
| CONSTRUCTION               | 0                         | 0             | 0            | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 0             |
| <b>Total Expenditures</b>  | <b>6,720</b>              | <b>300</b>    | <b>7,020</b> | <b>300</b>  | <b>300</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>600</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>7,620</b>  |
| BONDS                      | 3,780                     | 0             | 3,780        | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 3,780         |
| OTHER SOURCES              | 0                         | 300           | 300          | 300         | 300         | 0           | 0           | 0           | 600        | 0           | 0           | 0           | 0           | 900           |
| PAY AS YOU GO              | 650                       | 0             | 650          | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 650           |
| STORMWATER UTILITY FUNDING | 2,290                     | 0             | 2,290        | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 2,290         |
| <b>Total Funding</b>       | <b>6,720</b>              | <b>300</b>    | <b>7,020</b> | <b>300</b>  | <b>300</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>600</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>7,620</b>  |

**\$6,176,711 spent and encumbered through February 2021**

**\$5,715,956 spent and encumbered through February 2020**

**Project Status** Performed Upper Little Patuxent Watershed Study. Prepared Watershed Treatment Model and generated input to State WIP II. Performed stormwater utility fund financing study. Performed site assessments for additional BMP implementation. Partially funded Alliance for the Chesapeake Bay (READY) grant. Design ESD BMPs at Rockburn Br. Park. Completed draft and final Countywide Implementation Strategy (CIS) for meeting TMDL commitments and impervious cover treatment requirements. Perform database creation and impervious cover baseline calculations for NPDES reporting requirements. Performed historical BMP cleanup to meet MDE requirements. Performed Little Patuxent & Middle Patuxent Watershed Assessments. Perform Patapsco and Patuxent River watershed assessments. Continued Point of Investigation assessment and reporting required by MDE. Prepared PCB TMDL implementation plan. Updated IDDE and BMP CRM databases. Performed modeling and pollutant load computations for annual report.

|                        |       |     |              |     |     |       |       |   |            |   |   |   |   |              |
|------------------------|-------|-----|--------------|-----|-----|-------|-------|---|------------|---|---|---|---|--------------|
| FY 2021 Budget         | 6,720 | 100 | <b>6,820</b> | 100 | 100 | 100   | 100   | 0 | <b>400</b> | 0 | 0 | 0 |   | <b>7,220</b> |
| Difference 2021 / 2022 | 0     | 200 | <b>200</b>   | 200 | 200 | (100) | (100) | 0 | <b>200</b> | 0 | 0 | 0 | 0 | <b>400</b>   |

March 25, 2021

Howard County, MD

Version : Executive Proposed

## Project: D1158-FY2008 WATERSHED MANAGEMENT CONSTRUCTION

### Description

This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation requirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), channel restoration and water quality monitoring studies.

### Justification

1. NPDES Program is required by EPA and MDE under the Clean Water Act.
2. Watershed management of floodplains is needed to provide additional protection for older communities.
3. Erosion of tributaries of Patapsco and Patuxent Rivers to be addressed.

### Remarks

1. SDFUND represents fee-in-lieu of SWM construction by developers for County use in design or construction of other SWM facilities.
2. GRANT funds include local implementation grant from Chesapeake and Atlantic Coastal Bays 2010 Trust Fund and ARRA.
3. WQ Loan represents State Revolving Loan funding.
4. OTHER SOURCES represent Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandums of Understandings for cost sharing.
5. TAO 1-2017 received \$550,000 Grant revenue from D1165.
6. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

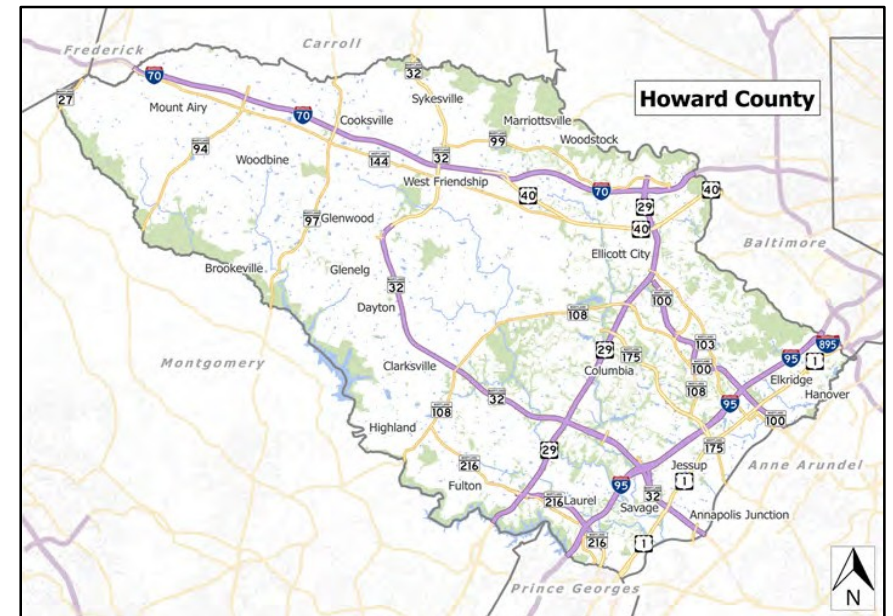
### Project Schedule

FY22 - Project is in the financial close out process and will be replaced by D1176.

### Operating Budget Impact

No Operating Impact

|  |            |
|--|------------|
| FY2022 Bonds - Annual Debt Service Payment               | 0          |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0          |
| Total Project Bonds - Annual Debt Service Payment        | 824,250    |
| Total Project Bonds - 20-Year Total Debt Service Payment | 16,484,992 |



# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1158-FY2008 WATERSHED MANAGEMENT CONSTRUCTION

| (In Thousands)                  | Five Year Capital Program |               |               |             |             |             |             |             |           |             | Master Plan |             |             |               |
|---------------------------------|---------------------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-------------|---------------|
|                                 | Prior Appr.               | FY2022 Budget | Appr. Total   | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING             | 9,300                     | 0             | 9,300         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 9,300         |
| LAND ACQUISITION                | 0                         | 0             | 0             | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 0             |
| CONSTRUCTION                    | 40,285                    | 0             | 40,285        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 40,285        |
| ADMINISTRATION                  | 1,020                     | 0             | 1,020         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 1,020         |
| <b>Total Expenditures</b>       | <b>50,605</b>             | <b>0</b>      | <b>50,605</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>50,605</b> |
| BONDS                           | 10,795                    | 0             | 10,795        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 10,795        |
| DEVELOPER CONTRIBUTION          | 200                       | 0             | 200           | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 200           |
| GRANTS                          | 12,397                    | 0             | 12,397        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 12,397        |
| OTHER SOURCES                   | 10,100                    | 0             | 10,100        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 10,100        |
| PAY AS YOU GO                   | 1,000                     | 0             | 1,000         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 1,000         |
| STORM DRAINAGE FUND             | 850                       | 0             | 850           | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 850           |
| WATER QUALITY STATE OR FED LOAN | 1,646                     | 0             | 1,646         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 1,646         |
| STORMWATER UTILITY FUNDING      | 13,617                    | 0             | 13,617        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 13,617        |
| <b>Total Funding</b>            | <b>50,605</b>             | <b>0</b>      | <b>50,605</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>50,605</b> |

**\$48,591,274 spent and encumbered through February 2021**

**\$49,117,159 spent and encumbered through February 2020**

**Project Status** Des: Sunny Field, Wood Crest, Cherry Tree Farms, Wood Creek, NLCC, Glenmont, Old Willow, Gwynn Pk, Wharff, Yellowbell, Proudfoot Stonehouse, Mellen, Park. Con: Bramhope, Brightwood, Dower, Ducks Foot, Elmmede, Faulkner, Great Drum, Meadowbrook, Old Willow, Paul Mill, Red Hill, Stone Trail, Tall Maple, Threshfield, Tiller, Tuscany, Waverly Woods, Wheatfield, Whiterock, Windflower, Southview, Pinehurst, Dorsey Hall, Bonnie Br, Greenway, Davis Br, Swansfield, HCC, Churchill, Dobbin, Timbers of Troy, Dunloggin, Font Hill Bank, Heatherland, Starling, Woodlot, Maple Dell Farms.

|                        |        |   |               |   |   |   |   |   |          |   |   |   |   |               |
|------------------------|--------|---|---------------|---|---|---|---|---|----------|---|---|---|---|---------------|
| FY 2021 Budget         | 50,605 | 0 | <b>50,605</b> | 0 | 0 | 0 | 0 | 0 | <b>0</b> | 0 | 0 | 0 |   | <b>50,605</b> |
| Difference 2021 / 2022 | 0      | 0 | <b>0</b>      | 0 | 0 | 0 | 0 | 0 | <b>0</b> | 0 | 0 | 0 | 0 | <b>0</b>      |

March 25, 2021

Howard County, MD

Version : Executive Proposed

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1159-FY2007 STORMWATER MANAGEMENT FACILITY RECONSTRUC

### Description

A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.

### Justification

Howard County Code Section 18.900, which requires inspection and maintenance of storm water management facilities. Metal pipe pond barrels are deteriorating as they reach the end of their expected life and need to be repaired or replaced.

### Remarks

1. GRANT funds include local implementation grant from the Chesapeake and Atlantic Coastal Bays 2010 Trust Fund.
2. A portion of prior request represents funding generated from legislation CB-8 & CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.
3. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.
4. OTHER SOURCES represents Stormwater Bonds backed by Watershed Protection and Restoration fund.

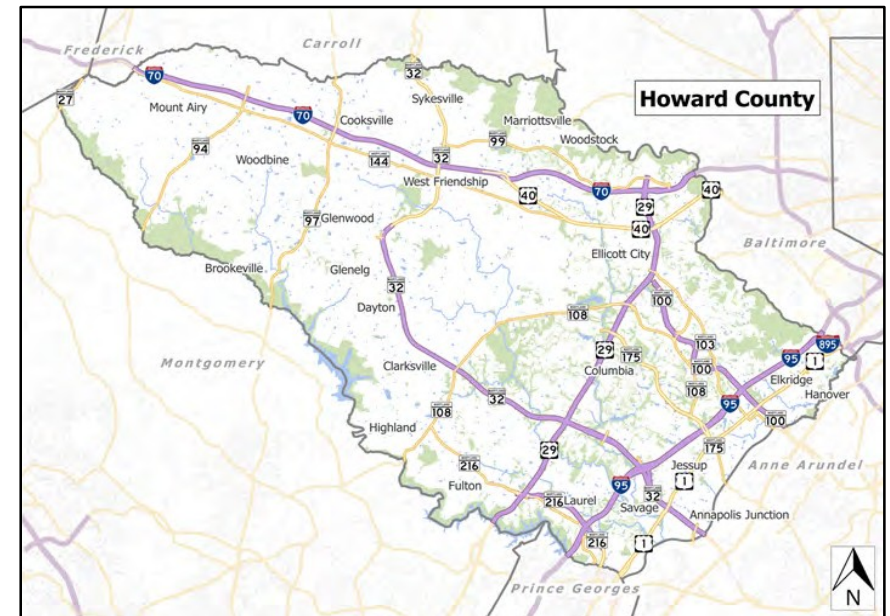
### Project Schedule

FY22 - Project is in the financial close out process and will be replaced by D1177.

### Operating Budget Impact

No Operating Impact

|  |            |
|--|------------|
| FY2022 Bonds - Annual Debt Service Payment               | 0          |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0          |
| Total Project Bonds - Annual Debt Service Payment        | 1,198,006  |
| Total Project Bonds - 20-Year Total Debt Service Payment | 23,960,122 |





# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1159-FY2007 STORMWATER MANAGEMENT FACILITY RECONSTRUC

| (In Thousands)            | Five Year Capital Program |               |               |             |             |             |             |             |           |             | Master Plan |             |             |               |
|---------------------------|---------------------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total   | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING       | 5,500                     | 0             | 5,500         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 5,500         |
| LAND ACQUISITION          | 0                         | 0             | 0             | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 0             |
| CONSTRUCTION              | 28,125                    | 0             | 28,125        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 28,125        |
| ADMINISTRATION            | 1,015                     | 0             | 1,015         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 1,015         |
| <b>Total Expenditures</b> | <b>34,640</b>             | <b>0</b>      | <b>34,640</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>34,640</b> |
| BONDS                     | 15,690                    | 0             | 15,690        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 15,690        |
| GRANTS                    | 200                       | 0             | 200           | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 200           |
| OTHER SOURCES             | 400                       | 0             | 400           | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 400           |
| STORMWATER UTILTY FUNDING | 18,350                    | 0             | 18,350        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 18,350        |
| <b>Total Funding</b>      | <b>34,640</b>             | <b>0</b>      | <b>34,640</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>34,640</b> |

**\$34,269,697 spent and encumbered through February 2021**

**\$33,975,793 spent and encumbered through February 2020**

**Project Status** Designed: 82 pond repairs

Constructed: Red Clover Dam; Willow Brook; West Zone Highways Shop pond; Rockburn 2; Dunteachin pond; Cromwell Court; Falling Waters; Stratford Downs; Hickory Ridge Village Center; Gateway pond; Shadow Lane repair and dredging; Hickory Ridge LPP; Samuel Morse; Ivy Terrace infiltration; Bonnie Brae; Emily Fox; Bill Lilly; Cypress Bay Court; Lynn Buff; Beech Creek 2; Brightfield; Turf Valley Overlook pond 2; Weston Drive; Blue February; Chestnut Farms outfall; Wimbledon Court; Wetherburn; Angelas Valley; 10 trashrack replacements; Rhode Valley; Emily Fox Ct; Old Mill; Towering Oaks; North Laurel pipe repair; Red Cravat repair and dredging; Glenshire Town; Northgate Woods; Murray Hill 2; Mary Lee Lane; Montgomery Run Pond 2; Winding Star; Longridge Knolls; River Hill 2; River Hill 3; Long Meadow pond; Long Meadow pond 2; North Ridge; Rusty Rim; Sweet Hours; Townhomes of Timberland; Velvet Path; Junction Industrial Park; Fairest Dream; Golden Star 1 and 2; Linden Chapel; Twin Oaks; Terra Maria; Beech Creek; Glenmar Section 2; Many Miles Mew; Kings Meade; Blue River; Diversified Lane.

|                        |        |   |               |   |   |   |   |   |          |   |   |   |   |               |
|------------------------|--------|---|---------------|---|---|---|---|---|----------|---|---|---|---|---------------|
| FY 2021 Budget         | 34,640 | 0 | <b>34,640</b> | 0 | 0 | 0 | 0 | 0 | <b>0</b> | 0 | 0 | 0 |   | <b>34,640</b> |
| Difference 2021 / 2022 | 0      | 0 | <b>0</b>      | 0 | 0 | 0 | 0 | 0 | <b>0</b> | 0 | 0 | 0 | 0 | <b>0</b>      |

March 25, 2021

Howard County, MD

Version : Executive Proposed

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1160-FY2010 STORMWATER MANAGEMENT RETROFITS

### Description

A project for the retrofit of stormwater management facilities to include water quality management.

### Justification

Numerous facilities built in the early period of stormwater management provide only water quality management. Howard County's Stormwater Management NPDES permit requires the County to improve water quality, in part, through retrofitting existing facilities designed only for water quality management.

### Remarks

1. This project replaces D-1141.
2. Grant funds included from the American Recovery and Reinvestment Act and local implementation grant from Chesapeake and Atlantic Coastal Bays 2010 Trust Fund.
3. OTHER SOURCES represent Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandum of Understanding of cost sharing.
4. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

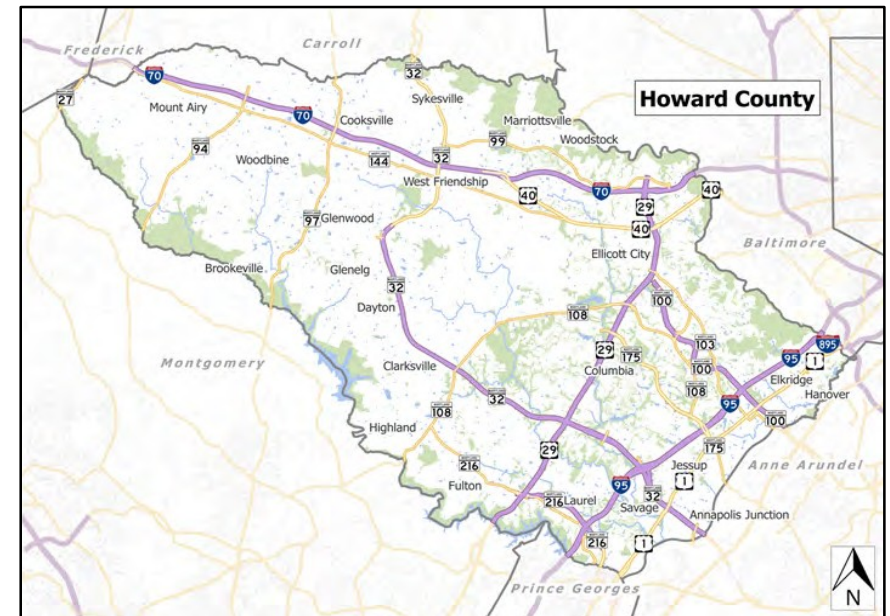
### Project Schedule

FY22 - Project is in the financial close out process and will be replaced by D1178.

### Operating Budget Impact

Technical-administrative management support.

|  |            |
|--|------------|
| FY2022 Bonds - Annual Debt Service Payment               | 0          |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0          |
| Total Project Bonds - Annual Debt Service Payment        | 526,084    |
| Total Project Bonds - 20-Year Total Debt Service Payment | 10,521,685 |



# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1160-FY2010 STORMWATER MANAGEMENT RETROFITS

| (In Thousands)<br>Appropriation Object Class | Five Year Capital Program |               |               |             |             |             |             |             |           | Master Plan |             |             |             | Total Project |
|--|---------------------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-------------|---------------|
|  | Prior Appr.               | FY2022 Budget | Appr. Total   | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 |               |
| PLANS & ENGINEERING                          | 4,990                     | 0             | 4,990         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 4,990         |
| CONSTRUCTION                                 | 15,425                    | 0             | 15,425        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 15,425        |
| ADMINISTRATION                               | 620                       | 0             | 620           | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 620           |
| <b>Total Expenditures</b>                    | <b>21,035</b>             | <b>0</b>      | <b>21,035</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>21,035</b> |
| BONDS  | 6,890                     | 0             | 6,890         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 6,890         |
| GRANTS                                       | 4,495                     | 0             | 4,495         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 4,495         |
| OTHER SOURCES                                | 4,750                     | 0             | 4,750         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 4,750         |
| STORMWATER UTILITY FUNDING                   | 4,900                     | 0             | 4,900         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 4,900         |
| <b>Total Funding</b>                         | <b>21,035</b>             | <b>0</b>      | <b>21,035</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>21,035</b> |

**\$19,216,217 spent and encumbered through February 2021**

**\$18,754,976 spent and encumbered through February 2020**

**Project Status** In Design: Quaker Mill Court; Wood Crest Drive; Country Meadows; Patapsco Park Estates; Sewells Orchard; Junction Industrial Parcel R.  
 Constructed: Lynwood Manor; Deep Earth Lane; Recreation and Parks HQ; Turf Valley Overlook Pond 3; Rockburn Branch Park; Country Lane (2 ponds); Oak West Drive; Wilde Lake HS; Turf Valley Overlook pond 2; Whitworth Way; Wimbledon Court; Stevens Forest ES; Dorsey Hall Village Center; Mt Hebron High School; Cedar Lane Park; Baltimore-Washington Industrial Park; Howard County Center for the Arts; St Johns Green; River Hill Shallow Marsh; Dorsey Building Parking Lot; Atholton Park; Ashmede Road pond; Salterforth ponds 1 and 2; Students Branching Out tree planting; Garland Road; Heritage Woods; Governor Martin outfall; Waiting Springs; Ellicott View; Ashton Woods; Trinity School..

|                        |        |   |               |   |   |   |   |   |          |   |   |   |   |               |
|------------------------|--------|---|---------------|---|---|---|---|---|----------|---|---|---|---|---------------|
| FY 2021 Budget         | 21,035 | 0 | <b>21,035</b> | 0 | 0 | 0 | 0 | 0 | <b>0</b> | 0 | 0 | 0 |   | <b>21,035</b> |
| Difference 2021 / 2022 | 0      | 0 | <b>0</b>      | 0 | 0 | 0 | 0 | 0 | <b>0</b> | 0 | 0 | 0 | 0 | <b>0</b>      |

March 25, 2021

Howard County, MD

Version : Executive Proposed

## Project: D1161-FY2019 SHAFFERSVILLE ROAD CULVERT REPLACEMENT

### Description

A project to replace the existing culverts on Shaffersville Road (between Florence Road and Shaffers Mill Road) and on Shaffers Mill Road between Shaffersville Road and Florence Road.

### Justification

Requested by the Bureau of Highways. The existing culvert floods regularly necessitating the closure of the road. This is a maintenance problem for the Bureau of Highways and an inconvenience to the traveling public.

### Remarks

Shaffersville Road and Shaffers Mill Road are scenic roads.

### Project Schedule

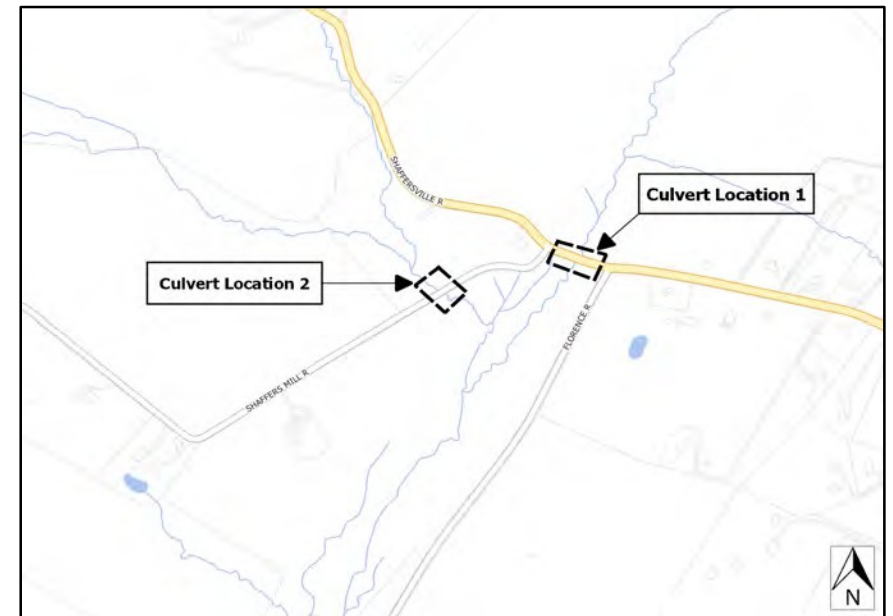
FY22 - Design and Land Acquisition

FY23 - Construction

### Operating Budget Impact

Estimated annual maintenance costs upon completion: Decrease.

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 0         |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0         |
| Total Project Bonds - Annual Debt Service Payment        | 87,808    |
| Total Project Bonds - 20-Year Total Debt Service Payment | 1,756,159 |



### Explanation of Changes

The total project cost has changed resulting from the addition of a second culvert location to the project.

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1161-FY2019 SHAFFERSVILLE ROAD CULVERT REPLACEMENT

| (In Thousands)            | Five Year Capital Program |               |             |             |             |             |             |             |            |             | Master Plan |             |             |               |
|---------------------------|---------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total  | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING       | 175                       | 0             | 175         | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 175           |
| LAND ACQUISITION          | 75                        | 0             | 75          | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 75            |
| CONSTRUCTION              | 0                         | 0             | 0           | 0           | 0           | 900         | 0           | 0           | 900        | 0           | 0           | 0           | 0           | 900           |
| <b>Total Expenditures</b> | <b>250</b>                | <b>0</b>      | <b>250</b>  | <b>0</b>    | <b>0</b>    | <b>900</b>  | <b>0</b>    | <b>0</b>    | <b>900</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>1,150</b>  |
| BONDS                     | 250                       | 0             | 250         | 0           | 0           | 900         | 0           | 0           | 900        | 0           | 0           | 0           | 0           | 1,150         |
| <b>Total Funding</b>      | <b>250</b>                | <b>0</b>      | <b>250</b>  | <b>0</b>    | <b>0</b>    | <b>900</b>  | <b>0</b>    | <b>0</b>    | <b>900</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>1,150</b>  |

**\$54,106 spent and encumbered through February 2021**

**\$40,223 spent and encumbered through February 2020**

**Project Status** FY21 - Shaffers Mill Road replacement culverts under construction.

|                        |     |       |              |   |   |     |   |   |            |   |   |   |   |              |
|------------------------|-----|-------|--------------|---|---|-----|---|---|------------|---|---|---|---|--------------|
| FY 2021 Budget         | 250 | 900   | <b>1,150</b> | 0 | 0 | 0   | 0 | 0 | <b>0</b>   | 0 | 0 | 0 |   | <b>1,150</b> |
| Difference 2021 / 2022 | 0   | (900) | <b>(900)</b> | 0 | 0 | 900 | 0 | 0 | <b>900</b> | 0 | 0 | 0 | 0 | <b>0</b>     |

The scope of the project was broadened to include a second culvert on Shaffers Mill Road. Funds for the design of the additional culvert have been requested for FY21.

## Project: D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS

### Description

This project is for design and construction of Environmental Site Design (ESD) small scale storm water facilities. The project will include retrofit of County owned roads, as well as, incentives for property owners to install ESD facilities and non-turf landscape alternatives to provide treatment of storm water runoff from impervious surfaces on their property.

### Justification

Additional treatment of storm water runoff is needed to support efforts consistent with the Chesapeake Bay Total Maximum Daily Load for nitrogen and phosphorus established in 2010 by the US EPA. These requirements are further specified in Maryland's Phase II Watershed Implementation Plan, as well as, the Municipal Separate Storm Sewer discharge (MS4) permit issued to Howard County, both issued by the Maryland Department of the Environment in support of the TMDL.

### Remarks

- 1.Participation by residents and landscape service companies will be encouraged by outreach and education efforts and by cost sharing ESD implementation and landscaping modifications with property owners.
- 2.OTHER funding represents - A portion of current request represents funding to be generated from legislation CB-8 & CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.
- 3.Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

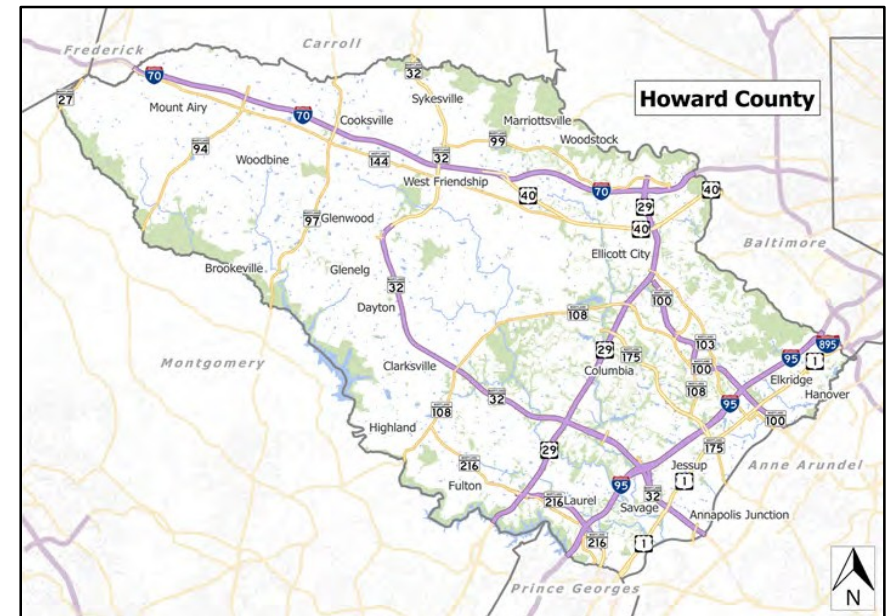
### Project Schedule

FY22 - Provide additional funding for Howard EcoWorks, formerly READY.

### Operating Budget Impact

No Operating Impact

|  |        |
|--|--------|
| FY2022 Bonds - Annual Debt Service Payment               | 0      |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0      |
| Total Project Bonds - Annual Debt Service Payment        | 3,818  |
| Total Project Bonds - 20-Year Total Debt Service Payment | 76,355 |



# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1164-FY2013 COMMUNITY ENVIRONMENTAL PARTNERSHIPS

| (In Thousands)             | Five Year Capital Program |               |              |             |             |             |             |             |            |             | Master Plan |             |             |               |
|----------------------------|---------------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|
|                            | Prior Appr.               | FY2022 Budget | Appr. Total  | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total  | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING        | 700                       | 0             | 700          | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 700           |
| CONSTRUCTION               | 4,000                     | 400           | 4,400        | 400         | 400         | 0           | 0           | 0           | 800        | 0           | 0           | 0           | 0           | 5,200         |
| <b>Total Expenditures</b>  | <b>4,700</b>              | <b>400</b>    | <b>5,100</b> | <b>400</b>  | <b>400</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>800</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>5,900</b>  |
| BONDS                      | 50                        | 0             | 50           | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 50            |
| OTHER SOURCES              | 0                         | 400           | 400          | 400         | 400         | 0           | 0           | 0           | 800        | 0           | 0           | 0           | 0           | 1,200         |
| PAY AS YOU GO              | 1,400                     | 0             | 1,400        | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 1,400         |
| STORMWATER UTILITY FUNDING | 3,250                     | 0             | 3,250        | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 3,250         |
| <b>Total Funding</b>       | <b>4,700</b>              | <b>400</b>    | <b>5,100</b> | <b>400</b>  | <b>400</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>800</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>5,900</b>  |

**\$4,475,000 spent and encumbered through February 2021**

**\$4,075,000 spent and encumbered through February 2020**

### Project Status

Provided partial funding for READY grant, a.k.a. Howard EcoWorks.

Performed concept grading, soil borings, and survey for Ellicott City Parking Lot E.

Performed design & construction for Savage Library water quality enhancements.

Howard EcoWorks performed BMP maintenance and construction of rain gardens and bioretention areas.

|                        |       |     |              |     |     |       |       |   |              |   |   |   |   |              |
|------------------------|-------|-----|--------------|-----|-----|-------|-------|---|--------------|---|---|---|---|--------------|
| FY 2021 Budget         | 4,700 | 400 | <b>5,100</b> | 400 | 400 | 400   | 400   | 0 | <b>1,600</b> | 0 | 0 | 0 |   | <b>6,700</b> |
| Difference 2021 / 2022 | 0     | 0   | <b>0</b>     | 0   | 0   | (400) | (400) | 0 | <b>(800)</b> | 0 | 0 | 0 | 0 | <b>(800)</b> |

March 25, 2021

Howard County, MD

Version : Executive Proposed

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1165-FY2013 FLOOD MITIGATION and STORMWATER/WATERWAY ENHANCEMENT

### Description

This project is for the study, design, and construction of flood mitigation and stormwater| waterway enhancement efforts in downtown Ellicott City. Projects may include drainage improvements, stormwater retrofits, flood control, stream improvements, and design of additional drainage facilities.

### Justification

Ellicott City has the potential to suffer significant flood damage.

### Remarks

- 1.FY21 GRANT represents anticipated additional Hazard Mitigation Grant Program funding 8600 Main Street culvert project.
- 2.OTHER SOURCES represents Stormwater Bonds backed by Watershed Protection and Restoration fund.
- 3.Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

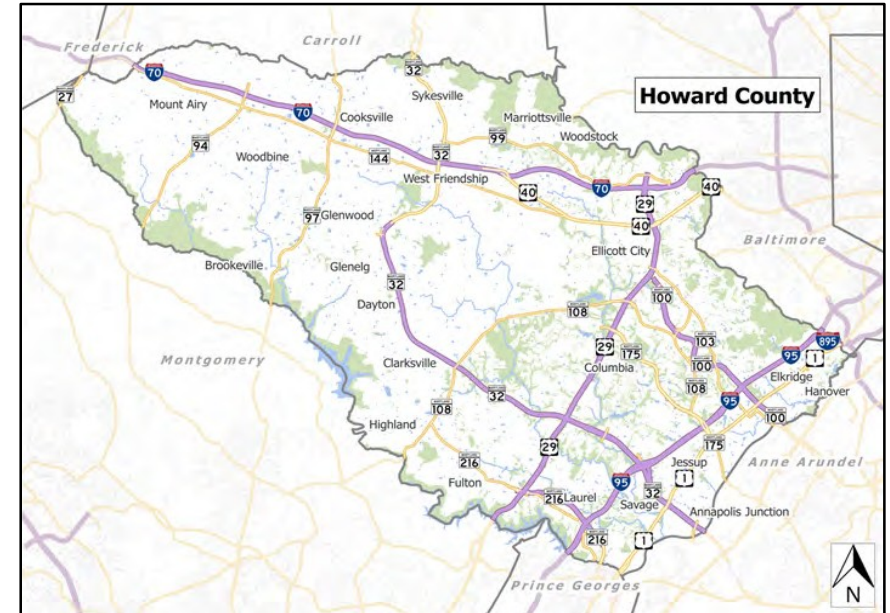
### Project Schedule

FY22 - Design H-4 pond project and construct channel from Courthouse Drive to Lot F.

### Operating Budget Impact

No Operating Impact

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 0         |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0         |
| Total Project Bonds - Annual Debt Service Payment        | 320,690   |
| Total Project Bonds - 20-Year Total Debt Service Payment | 6,413,800 |





# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1165-FY2013 FLOOD MITIGATION and STORMWATER/WATERWAY ENHANCEMENT

| (In Thousands)             | Five Year Capital Program |               |               |             |             |             |             |             |           |             | Master Plan |             |             |               |
|----------------------------|---------------------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-------------|---------------|
|                            | Prior Appr.               | FY2022 Budget | Appr. Total   | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING        | 2,825                     | 0             | 2,825         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 2,825         |
| LAND ACQUISITION           | 1,000                     | 0             | 1,000         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 1,000         |
| CONSTRUCTION               | 17,187                    | 0             | 17,187        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 17,187        |
| ADMINISTRATION             | 250                       | 0             | 250           | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 250           |
| <b>Total Expenditures</b>  | <b>21,262</b>             | <b>0</b>      | <b>21,262</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>21,262</b> |
| BONDS                      | 4,200                     | 0             | 4,200         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 4,200         |
| GRANTS                     | 6,787                     | 0             | 6,787         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 6,787         |
| OTHER SOURCES              | 5,400                     | 0             | 5,400         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 5,400         |
| PAY AS YOU GO              | 2,475                     | 0             | 2,475         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 2,475         |
| STORMWATER UTILITY FUNDING | 2,400                     | 0             | 2,400         | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 2,400         |
| <b>Total Funding</b>       | <b>21,262</b>             | <b>0</b>      | <b>21,262</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>21,262</b> |

**\$17,243,848 spent and encumbered through February 2021**

**\$16,670,753 spent and encumbered through February 2020**

**Project Status** Preliminary assessment - Howard Bldg and Court House parking lot SWM, Emory St|Church Rd|Maryland Ave|St Paul St drainage improvement.

Design initiated - Historic Colored School slope repair, Pond T1, Pond H7, 8600 Main Street culvert.

Construction completed - Parking Lot B WQ improvements, Parking Lot E, Ellicott Mills Dr culvert, New Cut Road slope repair.

Post July 2016 Flood Damage Repairs - Maplewood pond, Ellicott Mills Brewery wall, Precious Gifts wall, Hi Ho Silver wall, Lot E to Lot F wall, 8659 Main St, Parking Lot E NE corner wall, Main St wall at 84-inch culvert, stream channel woody debris removal.

Studies - 2D H&H model after TS Lee, July 2016, May 2018 flood events, Tiber Branch Watershed, Corps of Engineers Floodproofing Report.

|                        |        |         |                |   |   |   |   |   |          |   |   |   |   |                |
|------------------------|--------|---------|----------------|---|---|---|---|---|----------|---|---|---|---|----------------|
| FY 2021 Budget         | 21,262 | 5,200   | <b>26,462</b>  | 0 | 0 | 0 | 0 | 0 | <b>0</b> | 0 | 0 | 0 |   | <b>26,462</b>  |
| Difference 2021 / 2022 | 0      | (5,200) | <b>(5,200)</b> | 0 | 0 | 0 | 0 | 0 | <b>0</b> | 0 | 0 | 0 | 0 | <b>(5,200)</b> |

1. TAO 1-2017 transferred \$550,000 Grant revenue to D1158. 2. CB 3-2017 added \$1,700,000 in Pay as you Go funding for unanticipated expenses related to Ellicott City flood response and recovery efforts.

March 25, 2021

Howard County, MD

Version : Executive Proposed

## Project: D1168-FY2015 MORGAN WOODBINE ROAD SLOPE STABILIZATION

### Description

A project to design and construct stabilization of the roadway embankment of Morgan Woodbine Road adjacent to the South Branch of the Patapsco River.

### Justification

The roadway embankment is being eroded by the force of the river adjacent to the roadway. Previous attempts to stabilize the embankment have only been successful on a temporary basis. This project will develop a permanent stabilization. Project requested by the Bureau of Highways.

### Remarks

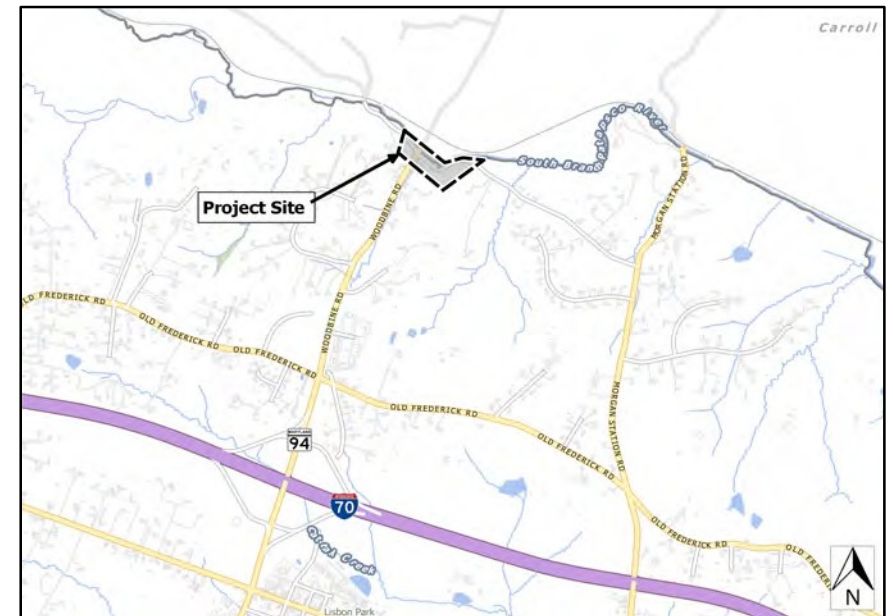
### Project Schedule

FY27 - Construction

### Operating Budget Impact

Estimated annual maintenance costs upon completion: Decrease.

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 0         |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0         |
| Total Project Bonds - Annual Debt Service Payment        | 70,628    |
| Total Project Bonds - 20-Year Total Debt Service Payment | 1,412,563 |



# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1168-FY2015 MORGAN WOODBINE ROAD SLOPE STABILIZATION

| (In Thousands)            | Five Year Capital Program |               |             |             |             |             |             |             |            |             | Master Plan |             |             |               |
|---------------------------|---------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total  | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING       | 200                       | 0             | 200         | 0           | 0           | 0           | 0           | 50          | 50         | 0           | 0           | 0           | 0           | 250           |
| LAND ACQUISITION          | 25                        | 0             | 25          | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 25            |
| CONSTRUCTION              | 0                         | 0             | 0           | 0           | 0           | 0           | 0           | 650         | 650        | 0           | 0           | 0           | 0           | 650           |
| <b>Total Expenditures</b> | <b>225</b>                | <b>0</b>      | <b>225</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>700</b>  | <b>700</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>925</b>    |
| BONDS                     | 225                       | 0             | 225         | 0           | 0           | 0           | 0           | 700         | 700        | 0           | 0           | 0           | 0           | 925           |
| <b>Total Funding</b>      | <b>225</b>                | <b>0</b>      | <b>225</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>700</b>  | <b>700</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>925</b>    |

**\$112,466 spent and encumbered through February 2021**

**\$112,366 spent and encumbered through February 2020**

**Project Status** FY21 - Land acquisition in progress.

|                        |     |   |            |   |   |   |   |     |            |   |   |   |   |            |
|------------------------|-----|---|------------|---|---|---|---|-----|------------|---|---|---|---|------------|
| FY 2021 Budget         | 225 | 0 | <b>225</b> | 0 | 0 | 0 | 0 | 700 | <b>700</b> | 0 | 0 | 0 |   | <b>925</b> |
| Difference 2021 / 2022 | 0   | 0 | <b>0</b>   | 0 | 0 | 0 | 0 | 0   | <b>0</b>   | 0 | 0 | 0 | 0 | <b>0</b>   |

Project schedule|funding changed due to funding constraint.

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1169-FY2016 STORM DRAIN CULVERT REPLACEMENT PROGRAM

### Description

This program will provide for the repair and replacement of failed storm drain pipes and culverts. The County's storm drain infrastructure is aging and many of the metal pipe culverts installed from 1960 through the 1990s have reached the end of their service life. Currently no asset inventory with condition assessment exists; therefore no funding is programmed to systematic replacement of these pipes and culverts. The program will provide for emergency culvert repair and replacement and funding assist in the development of an asset inventory program to better forecast future replacement needs. The program includes: storm water pipe and culvert repair and replacement of metal, HDPE, and concrete in less than six (6) feet in roadway longitudinal length, headwalls, end sections, replacement, or extension of culverts to assure positive flow of storm water and channeling of storm water into existing ditch lines or structures. Repairs include roadside pipe and culvert end treatment safety improvements to eliminate safety hazards. This project will not change the location or size of existing storm drainage structures.

### Justification

Program addresses emergency pipe replacement of aging metal, HDPE, and concrete pipes that have reached the end of their service life. Pipe failures have resulted in unacceptable levels of deep depressions, sinkholes, sediment build up, open pipe joints and metal pipe inverts. Poor existing storm drain conditions. Needed repairs will improve safety and reduce the potential for hazards and associated public inconvenience. Failure of a storm drain pipe will require emergency repairs at much higher prices. This program will also provide some funding towards the development of an asset inventory of the storm drain system, including pipe and culvert conditions for future funding forecasting.

### Remarks

County owns and maintains approximately 3,543,100 linear feet (671 miles) of storm drains and approximately 13,000 each of storm drain inlet structures.

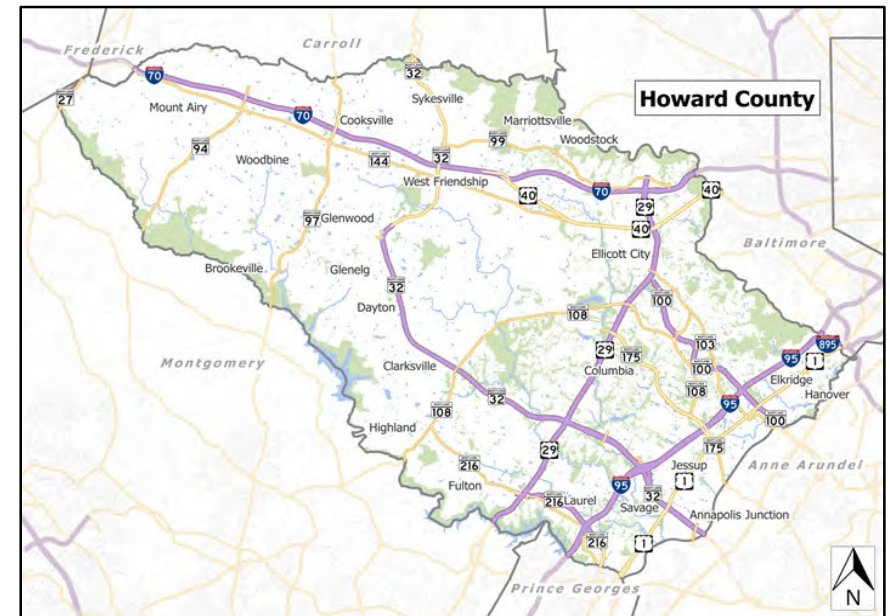
### Project Schedule

Approximately 0.3 mile of storm drains (depends on the depth of deteriorated storm drains) replaced per \$1M budgeted.  
Close at program completion

### Operating Budget Impact

No Operating Impact

|  |            |
|--|------------|
| FY2022 Bonds - Annual Debt Service Payment               | 171,798    |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 3,435,964  |
| Total Project Bonds - Annual Debt Service Payment        | 2,031,037  |
| Total Project Bonds - 20-Year Total Debt Service Payment | 40,620,730 |



### Explanation of Changes

Project includes cost updates for all years based on actual estimated project costs.

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1169-FY2016 STORM DRAIN CULVERT REPLACEMENT PROGRAM

| (In Thousands)            | Five Year Capital Program |               |              |              |              |              |              |              |               | Master Plan  |              |              |              |               |
|---------------------------|---------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total  | Fiscal 2023  | Fiscal 2024  | Fiscal 2025  | Fiscal 2026  | Fiscal 2027  | Sub Total     | Fiscal 2028  | Fiscal 2029  | Fiscal 2030  | Fiscal 2031  | Total Project |
| PLANS & ENGINEERING       | 500                       | 0             | 500          | 0            | 0            | 0            | 0            | 0            | 0             | 0            | 0            | 0            | 0            | 500           |
| CONSTRUCTION              | 4,600                     | 2,250         | 6,850        | 2,250        | 2,250        | 2,100        | 2,350        | 2,300        | 11,250        | 2,000        | 2,000        | 2,000        | 2,000        | 26,100        |
| <b>Total Expenditures</b> | <b>5,100</b>              | <b>2,250</b>  | <b>7,350</b> | <b>2,250</b> | <b>2,250</b> | <b>2,100</b> | <b>2,350</b> | <b>2,300</b> | <b>11,250</b> | <b>2,000</b> | <b>2,000</b> | <b>2,000</b> | <b>2,000</b> | <b>26,600</b> |
| BONDS                     | 5,100                     | 2,250         | 7,350        | 2,250        | 2,250        | 2,100        | 2,350        | 2,300        | 11,250        | 2,000        | 2,000        | 2,000        | 2,000        | 26,600        |
| <b>Total Funding</b>      | <b>5,100</b>              | <b>2,250</b>  | <b>7,350</b> | <b>2,250</b> | <b>2,250</b> | <b>2,100</b> | <b>2,350</b> | <b>2,300</b> | <b>11,250</b> | <b>2,000</b> | <b>2,000</b> | <b>2,000</b> | <b>2,000</b> | <b>26,600</b> |

**\$4,555,188 spent and encumbered through February 2021**

**\$4,179,463 spent and encumbered through February 2020**

### Project Status

|                        |       |       |              |       |       |       |       |       |               |       |       |       |       |               |
|------------------------|-------|-------|--------------|-------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|---------------|
| FY 2021 Budget         | 5,100 | 2,000 | <b>7,100</b> | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | <b>10,000</b> | 2,000 | 2,000 | 2,000 |       | <b>23,100</b> |
| Difference 2021 / 2022 | 0     | 250   | <b>250</b>   | 250   | 250   | 100   | 350   | 300   | <b>1,250</b>  | 0     | 0     | 0     | 2,000 | <b>3,500</b>  |

March 25, 2021

Howard County, MD

Version : Executive Proposed

## Project: D1175-FY-2018 VALLEY MEDE/CHATHAM FLOOD MITIGATION

### Description

This project is for the study, design and construction of flood mitigation and stormwater| waterway improvement efforts in the Valley Mede and Chatham subwatersheds. Projects may include drainage improvements, stormwater retrofits, flood control, stream improvements, and design of additional drainage facilities.

### Justification

Valley Mede and Chatham subwatersheds have the potential to suffer significant flood damage.

### Remarks

1. Future years, once projects cost-benefits determined, apply for FEMA grants
2. OTHER SOURCES represents Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandums of Understanding for cost sharing with MD State Highway Administration.
3. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

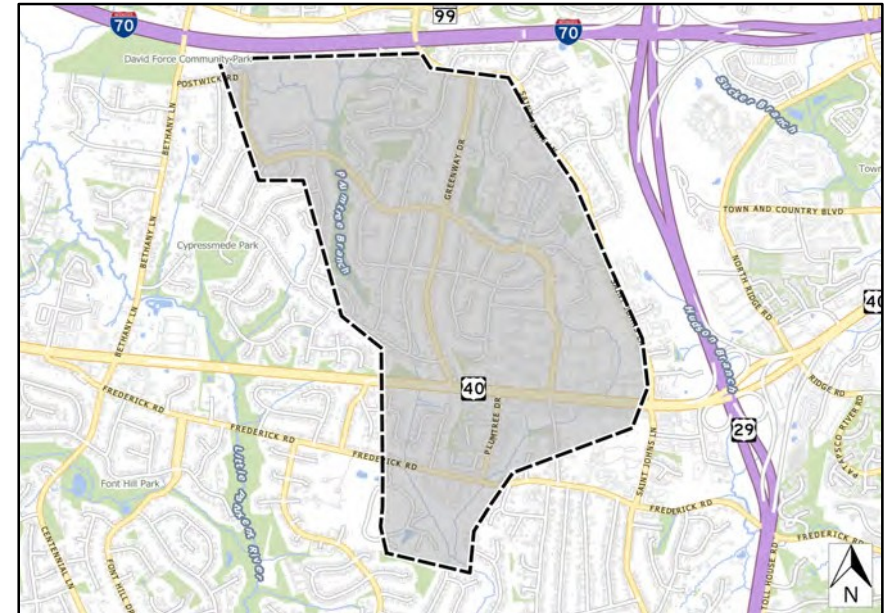
### Project Schedule

FY22 - Continue design and construction of projects identified in Plumtree-Little Plumtree study including North Chatham Rd drainage project (MSHA cost share), Michaels Way drainage improvements, and culvert upgrades.

### Operating Budget Impact

No Operating Impact

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 53,448    |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 1,068,967 |
| Total Project Bonds - Annual Debt Service Payment        | 320,690   |
| Total Project Bonds - 20-Year Total Debt Service Payment | 6,413,800 |



### Explanation of Changes

FY21 budget projection includes funding construction in FY22 for projects under design and permitting in FY21.

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1175-FY-2018 VALLEY MEDE/CHATHAM FLOOD MITIGATION

| (In Thousands)            | Five Year Capital Program |               |              |             |             |             |             |             |           |             | Master Plan |             |             |               |
|---------------------------|---------------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total  | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING       | 950                       | 0             | 950          | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 950           |
| LAND ACQUISITION          | 2,500                     | 0             | 2,500        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 2,500         |
| CONSTRUCTION              | 2,900                     | 700           | 3,600        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 3,600         |
| ADMINISTRATION            | 50                        | 0             | 50           | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 50            |
| <b>Total Expenditures</b> | <b>6,400</b>              | <b>700</b>    | <b>7,100</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>7,100</b>  |
| BONDS                     | 3,500                     | 700           | 4,200        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 4,200         |
| OTHER SOURCES             | 2,900                     | 0             | 2,900        | 0           | 0           | 0           | 0           | 0           | 0         | 0           | 0           | 0           | 0           | 2,900         |
| <b>Total Funding</b>      | <b>6,400</b>              | <b>700</b>    | <b>7,100</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>7,100</b>  |

**\$4,036,271 spent and encumbered through February 2021**

**\$2,618,459 spent and encumbered through February 2020**

**Project Status** Constructed Longview stream project and Greenway Drive storm drain improvements.

Design Paulskirk Drive, Greenway Drive, Michaels Way storm drain improvements.

Assess Valley Mede roadway culverts and begin design.

Assess North Chatham channel and drainage improvements and begin design.

Acquired 9509, 9513 and 9514 Longview Drive and 9520 Frederick Road and removed houses. Acquired 9506 Longview Drive.

|                        |       |       |              |         |         |   |   |   |                |   |   |   |                |
|------------------------|-------|-------|--------------|---------|---------|---|---|---|----------------|---|---|---|----------------|
| FY 2021 Budget         | 6,400 | 1,000 | <b>7,400</b> | 1,000   | 1,000   | 0 | 0 | 0 | <b>2,000</b>   | 0 | 0 | 0 | <b>9,400</b>   |
| Difference 2021 / 2022 | 0     | (300) | <b>(300)</b> | (1,000) | (1,000) | 0 | 0 | 0 | <b>(2,000)</b> | 0 | 0 | 0 | <b>(2,300)</b> |

TAO #1-2019 transfers in \$1,000,000. FY20 budget request increased slightly from what was projected for FY20 in the FY19 budget request due to the identification of specific projects and initial design work performed during FY19.

March 25, 2021

Howard County, MD

Version : Executive Proposed

## Project: D1176-WATERSHED MANAGEMENT CONSTRUCTION

### Description

This project is for design and construction of stormwater facility improvements. The project will include NPDES stormwater management implementation requirements, floodplain studies, including retrofitting of stormwater management ponds, restoration and certification of detention basins, continued improvement of flood alert systems, streambank restoration including bio-engineering, water quality devices (such as wetlands), storm drainage and storm drain outfall stabilization, channel restoration and water quality monitoring studies.

### Justification

1. NPDES Program is required by EPA and MDE under the Clean Water Act.
2. Watershed management of floodplains is needed to provide additional protection for older communities.
3. Erosion of tributaries of the Patapsco and Patuxent Rivers needs to be addressed.

### Remarks

1. This project replaces D-1158.
2. GRANT funds include local implementation grant from Chesapeake and Atlantic Coastal Bays 2010 Trust Fund, Economic Development Administration, and FEMA.
3. A portion of current request represents funding to be generated from legislation CB-8 and CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.
4. OTHER SOURCES represent Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandums of Understandings for cost sharings.
5. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

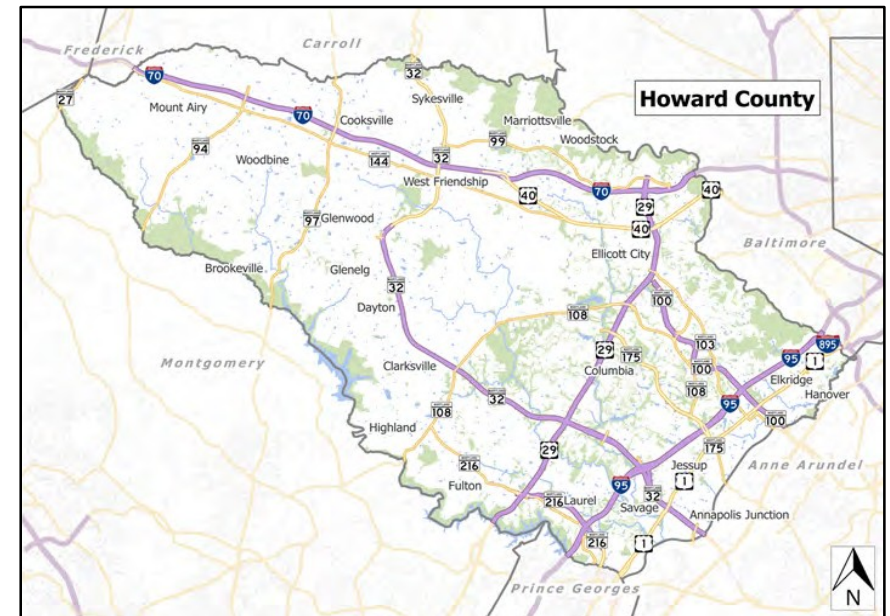
### Project Schedule

FY22 - Construction: Mellen Court, Woodcrest Drive, Sunny Field Court.  
Post Construction Monitoring: Multiple sites.  
Storm Drain Verification & GIS update.  
Design: New Cut Road stream.

### Operating Budget Impact

No Operating Impact

|  |   |
|--|---|
| FY2022 Bonds - Annual Debt Service Payment               | 0 |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0 |
| Total Project Bonds - Annual Debt Service Payment        | 0 |
| Total Project Bonds - 20-Year Total Debt Service Payment | 0 |





# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1176-WATERSHED MANAGEMENT CONSTRUCTION

| (In Thousands)             | Five Year Capital Program |               |               |              |              |              |             |             |              |             | Master Plan |             |             |               |
|----------------------------|---------------------------|---------------|---------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|---------------|
|                            | Prior Appr.               | FY2022 Budget | Appr. Total   | Fiscal 2023  | Fiscal 2024  | Fiscal 2025  | Fiscal 2026 | Fiscal 2027 | Sub Total    | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING        | 1,100                     | 400           | 1,500         | 200          | 200          | 0            | 0           | 0           | 400          | 0           | 0           | 0           | 0           | 1,900         |
| LAND ACQUISITION           | 100                       | 0             | 100           | 0            | 0            | 0            | 0           | 0           | 0            | 0           | 0           | 0           | 0           | 100           |
| CONSTRUCTION               | 6,200                     | 3,600         | 9,800         | 3,000        | 1,800        | 1,200        | 0           | 0           | 6,000        | 0           | 0           | 0           | 0           | 15,800        |
| ADMINISTRATION             | 100                       | 0             | 100           | 0            | 0            | 0            | 0           | 0           | 0            | 0           | 0           | 0           | 0           | 100           |
| <b>Total Expenditures</b>  | <b>7,500</b>              | <b>4,000</b>  | <b>11,500</b> | <b>3,200</b> | <b>2,000</b> | <b>1,200</b> | <b>0</b>    | <b>0</b>    | <b>6,400</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>17,900</b> |
| GRANTS                     | 2,000                     | 1,800         | 3,800         | 1,000        | 1,000        | 1,000        | 0           | 0           | 3,000        | 0           | 0           | 0           | 0           | 6,800         |
| OTHER SOURCES              | 4,300                     | 2,200         | 6,500         | 2,200        | 1,000        | 200          | 0           | 0           | 3,400        | 0           | 0           | 0           | 0           | 9,900         |
| STORMWATER UTILITY FUNDING | 1,200                     | 0             | 1,200         | 0            | 0            | 0            | 0           | 0           | 0            | 0           | 0           | 0           | 0           | 1,200         |
| <b>Total Funding</b>       | <b>7,500</b>              | <b>4,000</b>  | <b>11,500</b> | <b>3,200</b> | <b>2,000</b> | <b>1,200</b> | <b>0</b>    | <b>0</b>    | <b>6,400</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>17,900</b> |

**\$3,241,009 spent and encumbered through February 2021**

**\$1,481,353 spent and encumbered through February 2020**

**Project Status** New capital project to replace D1158.

Design initiated - Bonnie Branch Phase 2, Pirch Way, Valley Road storm drain, Wharffs Lane.

Construction initiated - Old Willow Way Phase 2. Post construction monitoring performed for multiple projects.

Construction complete - Pirch Way, Valley Road storm drain, Cherry Tree Farms, Sucker Branch Trib 2|5.

|                        |       |       |               |       |         |         |         |   |                |   |   |   |   |                |
|------------------------|-------|-------|---------------|-------|---------|---------|---------|---|----------------|---|---|---|---|----------------|
| FY 2021 Budget         | 7,500 | 2,500 | <b>10,000</b> | 2,500 | 3,000   | 3,400   | 3,400   | 0 | <b>12,300</b>  | 0 | 0 | 0 |   | <b>22,300</b>  |
| Difference 2021 / 2022 | 0     | 1,500 | <b>1,500</b>  | 700   | (1,000) | (2,200) | (3,400) | 0 | <b>(5,900)</b> | 0 | 0 | 0 | 0 | <b>(4,400)</b> |

March 25, 2021

Howard County, MD

Version : Executive Proposed

## Project: D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION

### Description

A fund for Howard County to undertake construction or repairs to stormwater management on an as-needed basis meeting the provisions of the County Code. This program is envisioned to provide rapid assistance in emergency situations.

### Justification

Howard County Code Section 18.900, which requires inspection and maintenance of storm water management facilities. Metal pipe pond barrels are deteriorating as they reach the end of their expected life and need to be repaired or replaced. Sediment that has accumulated in ponds needs to be dredged.

### Remarks

1. This project replaces D-1159.
2. A portion of current request represents funding to be generated from legislation CB-8 & CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.
3. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.
4. OTHER SOURCES represents Stormwater Bonds backed by Watershed Protection and Restoration fund.

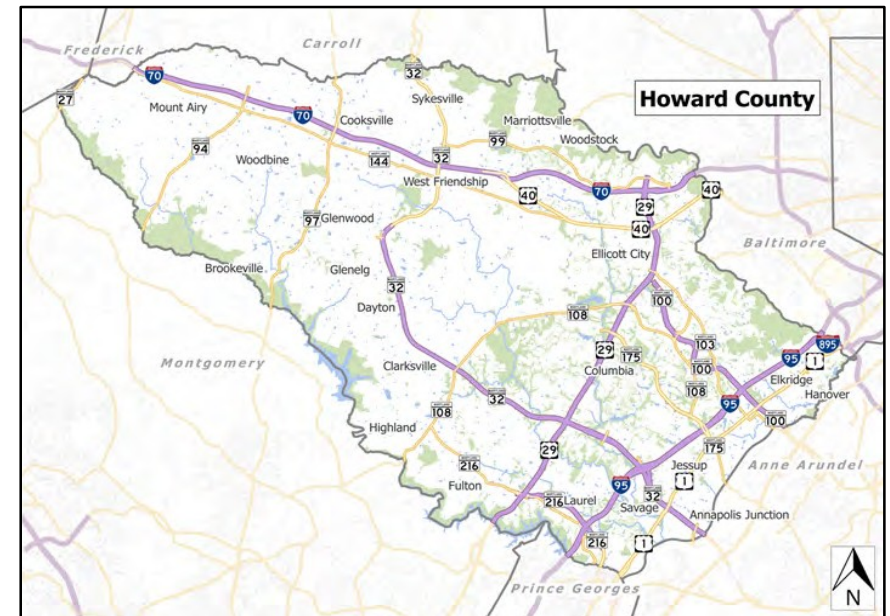
### Project Schedule

- FY22 - Design: 3 stormwater management pond outlet structure repairs-replacements  
 FY22 - Construction: 7 stormwater management pond outlet structure repairs-replacements

### Operating Budget Impact

No Operating Impact

|  |         |
|--|---------|
| FY2022 Bonds - Annual Debt Service Payment               | 0       |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0       |
| Total Project Bonds - Annual Debt Service Payment        | 15,271  |
| Total Project Bonds - 20-Year Total Debt Service Payment | 305,419 |



# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1177-STORMWATER MANAGEMENT FACILITY RECONSTRUCTION

| (In Thousands)             | Five Year Capital Program |               |               |              |              |              |             |             |               |             | Master Plan |             |             |               |
|----------------------------|---------------------------|---------------|---------------|--------------|--------------|--------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|---------------|
|                            | Prior Appr.               | FY2022 Budget | Appr. Total   | Fiscal 2023  | Fiscal 2024  | Fiscal 2025  | Fiscal 2026 | Fiscal 2027 | Sub Total     | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING        | 600                       | 600           | 1,200         | 400          | 400          | 200          | 0           | 0           | 1,000         | 0           | 0           | 0           | 0           | 2,200         |
| LAND ACQUISITION           | 100                       | 0             | 100           | 0            | 0            | 0            | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 100           |
| CONSTRUCTION               | 10,400                    | 8,500         | 18,900        | 6,600        | 4,200        | 1,300        | 0           | 0           | 12,100        | 0           | 0           | 0           | 0           | 31,000        |
| ADMINISTRATION             | 200                       | 0             | 200           | 0            | 0            | 0            | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 200           |
| <b>Total Expenditures</b>  | <b>11,300</b>             | <b>9,100</b>  | <b>20,400</b> | <b>7,000</b> | <b>4,600</b> | <b>1,500</b> | <b>0</b>    | <b>0</b>    | <b>13,100</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>33,500</b> |
| BONDS                      | 200                       | 0             | 200           | 0            | 0            | 0            | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 200           |
| GRANTS                     | 0                         | 1,500         | 1,500         | 0            | 0            | 0            | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 1,500         |
| OTHER SOURCES              | 6,100                     | 7,600         | 13,700        | 7,000        | 4,600        | 1,500        | 0           | 0           | 13,100        | 0           | 0           | 0           | 0           | 26,800        |
| STORMWATER UTILITY FUNDING | 5,000                     | 0             | 5,000         | 0            | 0            | 0            | 0           | 0           | 0             | 0           | 0           | 0           | 0           | 5,000         |
| <b>Total Funding</b>       | <b>11,300</b>             | <b>9,100</b>  | <b>20,400</b> | <b>7,000</b> | <b>4,600</b> | <b>1,500</b> | <b>0</b>    | <b>0</b>    | <b>13,100</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>33,500</b> |

**\$5,331,611 spent and encumbered through February 2021**

**\$3,413,984 spent and encumbered through February 2020**

**Project Status** New capital project to replace D1159.

Design initiated - Whiskey Bottom West, Scottswood Court

Construction initiated - Cardinal Forest, Mayfield Manor, Nottingham Village.

Construction complete - Strawberry Fields, Hi Tech Road, Autumn Manor, Woodcrest, Calvert Ridge.

|                        |        |       |               |       |       |       |         |   |              |   |   |   |   |               |
|------------------------|--------|-------|---------------|-------|-------|-------|---------|---|--------------|---|---|---|---|---------------|
| FY 2021 Budget         | 11,300 | 1,700 | <b>13,000</b> | 1,700 | 700   | 1,200 | 1,100   | 0 | <b>4,700</b> | 0 | 0 | 0 |   | <b>17,700</b> |
| Difference 2021 / 2022 | 0      | 7,400 | <b>7,400</b>  | 5,300 | 3,900 | 300   | (1,100) | 0 | <b>8,400</b> | 0 | 0 | 0 | 0 | <b>15,800</b> |

March 25, 2021

Howard County, MD

Version : Executive Proposed

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1178-STORMWATER MANAGEMENT RETROFITS

### Description

A project for the retrofit of stormwater management facilities to include water quality management.

### Justification

Numerous facilities built in the early period of stormwater management provide only water quantity management. Howard County's Stormwater Management NPDES permit requires the County to improve water quality, in part, through retrofitting existing facilities designed only for water quantity management.

### Remarks

1. This project replaces D-1160.
2. A portion of request represents funding to be generated from legislation CB-8 and CR21 for stormwater utility funding, known as Watershed Protection and Restoration fund.
3. OTHER SOURCES represent Stormwater Bonds backed by Watershed Protection and Restoration fund, plus funds provided to County through Memorandum of Understanding of cost sharing.
4. Construction of some projects may be dependent upon donation of the necessary easements and-or property owner cost share participation.

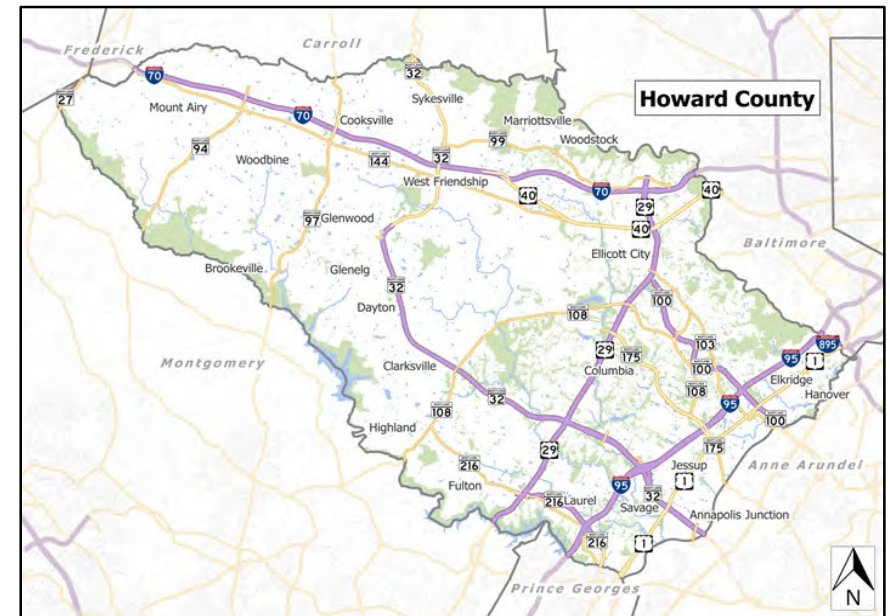
### Project Schedule

FY22 - Complete construction of Sewells Orchard pond.

### Operating Budget Impact

No Operating Impact

|  |            |
|--|------------|
| FY2022 Bonds - Annual Debt Service Payment               | 0          |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0          |
| Total Project Bonds - Annual Debt Service Payment        | 755,912    |
| Total Project Bonds - 20-Year Total Debt Service Payment | 15,118,242 |



# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1178-STORMWATER MANAGEMENT RETROFITS

| (In Thousands)            | Five Year Capital Program |               |              |              |              |              |              |              |              |              | Master Plan  |              |              |               |
|---------------------------|---------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total  | Fiscal 2023  | Fiscal 2024  | Fiscal 2025  | Fiscal 2026  | Fiscal 2027  | Sub Total    | Fiscal 2028  | Fiscal 2029  | Fiscal 2030  | Fiscal 2031  | Total Project |
| PLANS & ENGINEERING       | 300                       | 0             | 300          | 100          | 100          | 100          | 100          | 100          | 500          | 100          | 100          | 100          | 100          | 1,200         |
| LAND ACQUISITION          | 100                       | 0             | 100          | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 100           |
| CONSTRUCTION              | 2,250                     | 0             | 2,250        | 1,000        | 1,000        | 1,000        | 1,000        | 1,000        | 5,000        | 1,000        | 1,000        | 1,000        | 1,000        | 11,250        |
| ADMINISTRATION            | 50                        | 0             | 50           | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 50            |
| <b>Total Expenditures</b> | <b>2,700</b>              | <b>0</b>      | <b>2,700</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>5,500</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>12,600</b> |
| BONDS                     | 0                         | 0             | 0            | 1,100        | 1,100        | 1,100        | 1,100        | 1,100        | 5,500        | 1,100        | 1,100        | 1,100        | 1,100        | 9,900         |
| OTHER SOURCES             | 2,700                     | 0             | 2,700        | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 2,700         |
| <b>Total Funding</b>      | <b>2,700</b>              | <b>0</b>      | <b>2,700</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>5,500</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>1,100</b> | <b>12,600</b> |

**\$525,838 spent and encumbered through February 2021**

**\$24,525 spent and encumbered through February 2020**

**Project Status** New capital project to replace D1160.

Construction initiated - Sewells Orchard pond.

Construction complete - Gwynn Park Drive outfall, Carrigan Drive outfall.

|                        |       |   |              |       |     |     |     |       |              |       |       |       |       |              |
|------------------------|-------|---|--------------|-------|-----|-----|-----|-------|--------------|-------|-------|-------|-------|--------------|
| FY 2021 Budget         | 2,700 | 0 | <b>2,700</b> | 0     | 500 | 500 | 500 | 0     | <b>1,500</b> | 0     | 0     | 0     |       | <b>4,200</b> |
| Difference 2021 / 2022 | 0     | 0 | <b>0</b>     | 1,100 | 600 | 600 | 600 | 1,100 | <b>4,000</b> | 1,100 | 1,100 | 1,100 | 1,100 | <b>8,400</b> |

March 25, 2021

Howard County, MD

Version : Executive Proposed

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1180 - FY2021 TIBER WATERSHED IMPROVEMENTS

### Description

A project for the design and construction of varying sized drainage and stormwater management projects within the Tiber Watershed.

### Justification

This watershed was significantly impacted by recent flooding events. Additionally, many of the existing drainage conveyance systems have reached the end of their useful service life and need to be replaced. Much of the development within the watershed predates current storm water management requirements. This program will address these issues.

### Remarks

1. Construction of some projects may be dependent upon donations from adjacent property owners.
2. This program implements recommendations from study done under CB56-2018.

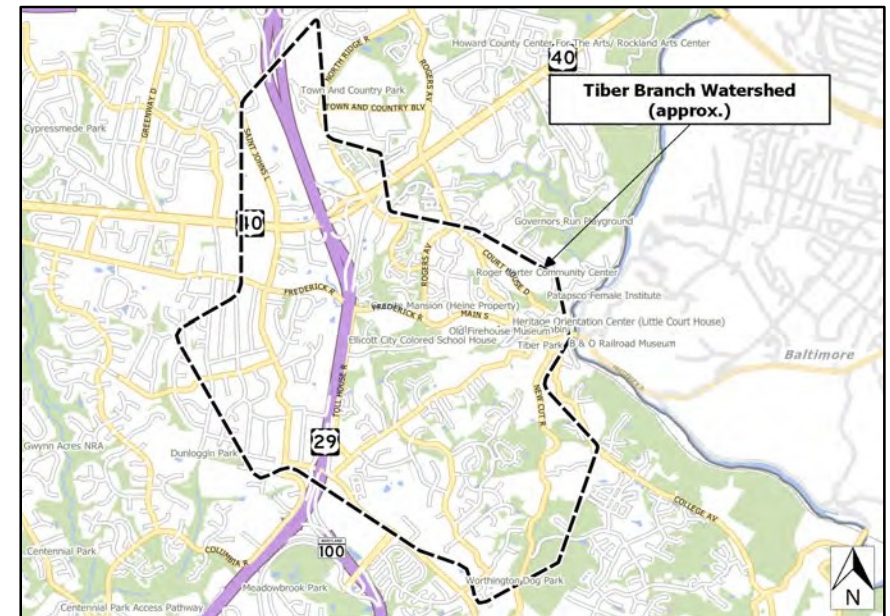
### Project Schedule

- FY22 - Design and construction
- FY23 - Construction

### Operating Budget Impact

No Operating Impact

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 0         |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0         |
| Total Project Bonds - Annual Debt Service Payment        | 76,355    |
| Total Project Bonds - 20-Year Total Debt Service Payment | 1,527,095 |



# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1180 - FY2021 TIBER WATERSHED IMPROVEMENTS

| (In Thousands)            | Five Year Capital Program |               |             |             |             |             |             |             |            |             | Master Plan |             |             |               |
|---------------------------|---------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total  | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING       | 150                       | 0             | 150         | 0           | 150         | 0           | 0           | 0           | 150        | 0           | 0           | 0           | 0           | 300           |
| LAND ACQUISITION          | 100                       | 0             | 100         | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 100           |
| CONSTRUCTION              | 250                       | 0             | 250         | 0           | 350         | 0           | 0           | 0           | 350        | 0           | 0           | 0           | 0           | 600           |
| <b>Total Expenditures</b> | <b>500</b>                | <b>0</b>      | <b>500</b>  | <b>0</b>    | <b>500</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>1,000</b>  |
| BONDS                     | 500                       | 0             | 500         | 0           | 500         | 0           | 0           | 0           | 500        | 0           | 0           | 0           | 0           | 1,000         |
| <b>Total Funding</b>      | <b>500</b>                | <b>0</b>      | <b>500</b>  | <b>0</b>    | <b>500</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>1,000</b>  |

**\$0 spent and encumbered through February 2021**

**\$0 spent and encumbered through February 2020**

**Project Status** FY21 – Design of various watershed improvements is underway

|                        |     |       |              |       |     |   |   |   |            |   |   |   |   |              |
|------------------------|-----|-------|--------------|-------|-----|---|---|---|------------|---|---|---|---|--------------|
| FY 2021 Budget         | 500 | 500   | <b>1,000</b> | 500   | 0   | 0 | 0 | 0 | <b>500</b> | 0 | 0 | 0 |   | <b>1,500</b> |
| Difference 2021 / 2022 | 0   | (500) | <b>(500)</b> | (500) | 500 | 0 | 0 | 0 | <b>0</b>   | 0 | 0 | 0 | 0 | <b>(500)</b> |

# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1181 - FY2021 PLUM TREE WATERSHED IMPROVEMENTS

### Description

A project for the design and construction of varying sized drainage and stormwater management projects within the Plum Tree Watershed.

### Justification

This watershed was significantly impacted by recent flooding events. Additionally, many of the existing drainage conveyance systems have reached the end of their useful service life and need to be replaced. Much of the development within the watershed predates current storm water management requirements. This program will address these issues

### Remarks

1. Construction of some projects may be dependent upon donations from adjacent property owners.
2. This program implements recommendations from study done under CB56-2018.

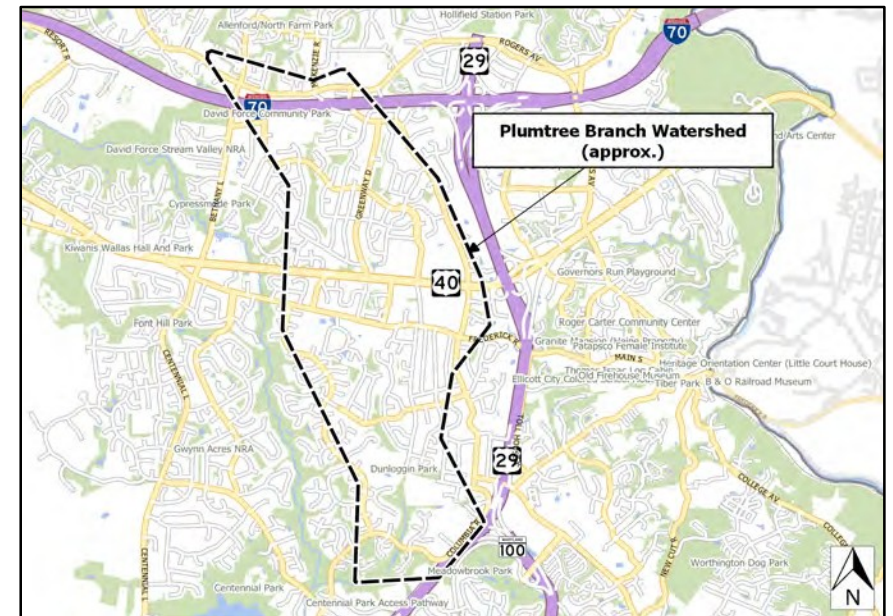
### Project Schedule

- FY22 - Design and construction  
FY23 - Construction

### Operating Budget Impact

No Operating Impact

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 0         |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 0         |
| Total Project Bonds - Annual Debt Service Payment        | 61,084    |
| Total Project Bonds - 20-Year Total Debt Service Payment | 1,221,676 |





# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1181 - FY2021 PLUM TREE WATERSHED IMPROVEMENTS

| (In Thousands)            | Five Year Capital Program |               |             |             |             |             |             |             |            |             | Master Plan |             |             |               |
|---------------------------|---------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total  | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING       | 100                       | 0             | 100         | 100         | 0           | 0           | 0           | 0           | 100        | 0           | 0           | 0           | 0           | 200           |
| LAND ACQUISITION          | 50                        | 0             | 50          | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 50            |
| CONSTRUCTION              | 250                       | 0             | 250         | 300         | 0           | 0           | 0           | 0           | 300        | 0           | 0           | 0           | 0           | 550           |
| <b>Total Expenditures</b> | <b>400</b>                | <b>0</b>      | <b>400</b>  | <b>400</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>400</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>800</b>    |
| BONDS                     | 400                       | 0             | 400         | 400         | 0           | 0           | 0           | 0           | 400        | 0           | 0           | 0           | 0           | 800           |
| <b>Total Funding</b>      | <b>400</b>                | <b>0</b>      | <b>400</b>  | <b>400</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>400</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>800</b>    |

**\$0 spent and encumbered through February 2021**

**\$0 spent and encumbered through February 2020**

**Project Status** FY21 – Design of various watershed improvements is underway

|                        |     |       |              |     |   |   |   |   |            |   |   |   |   |              |
|------------------------|-----|-------|--------------|-----|---|---|---|---|------------|---|---|---|---|--------------|
| FY 2021 Budget         | 400 | 400   | <b>800</b>   | 400 | 0 | 0 | 0 | 0 | <b>400</b> | 0 | 0 | 0 |   | <b>1,200</b> |
| Difference 2021 / 2022 | 0   | (400) | <b>(400)</b> | 0   | 0 | 0 | 0 | 0 | <b>0</b>   | 0 | 0 | 0 | 0 | <b>(400)</b> |

## Project: D1182-FY2021 ORCHARD RIDGE DRAINAGE IMPROVEMENTS

### Description

This project is for the design and construction of drainage and stormwater management improvements in the Orchard Ridge community.

### Justification

There are several locations of drainage conveyance issues in the vicinity of Hale Haven Drive and Carman Drive. Additionally, the adjacent tributary is severely eroding neighboring properties. Highways is unable to adequately maintain the area or address resident concerns.

### Remarks

1. A study of the area was done to determine possible solutions for runoff and stream erosion in the area. This project will advance the recommended solutions.
2. Construction may be dependent upon donation of easements from adjacent property owners.
3. Request represents project advancement.

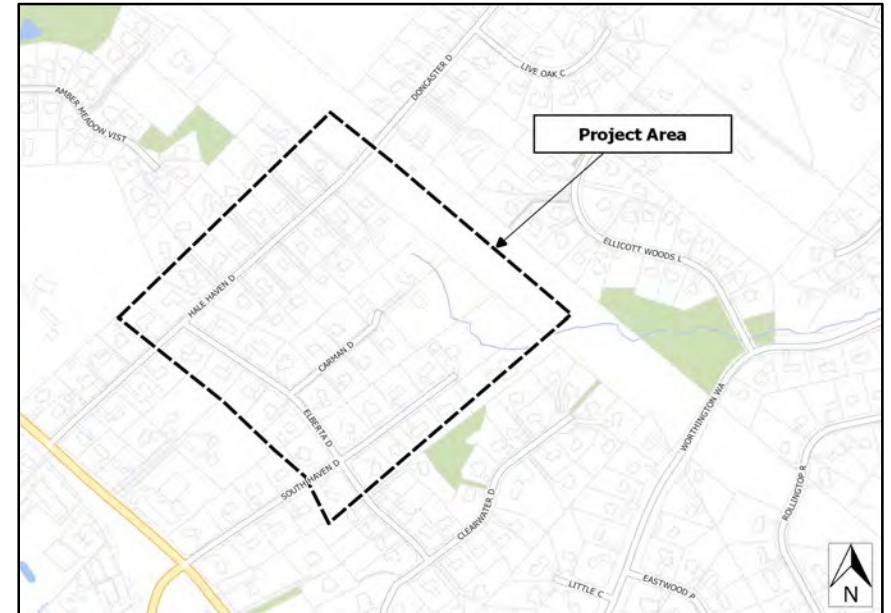
### Project Schedule

- FY22 - Land Acquisition and Construction along tributary  
 FY23 - Design, Land Acquisition and Construction along Hale Haven & Carman Drives.

### Operating Budget Impact

Decrease.

|  |           |
|--|-----------|
| FY2022 Bonds - Annual Debt Service Payment               | 38,177    |
| FY2022 Bonds - 20-Year Total Debt Service Payment        | 763,548   |
| Total Project Bonds - Annual Debt Service Payment        | 108,806   |
| Total Project Bonds - 20-Year Total Debt Service Payment | 2,176,111 |



# Fiscal 2022 Capital Budget

# STORM DRAINAGE PROJECTS

## Project: D1182-FY2021 ORCHARD RIDGE DRAINAGE IMPROVEMENTS

| (In Thousands)            | Five Year Capital Program |               |              |             |             |             |             |             |            |             | Master Plan |             |             |               |
|---------------------------|---------------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|
|                           | Prior Appr.               | FY2022 Budget | Appr. Total  | Fiscal 2023 | Fiscal 2024 | Fiscal 2025 | Fiscal 2026 | Fiscal 2027 | Sub Total  | Fiscal 2028 | Fiscal 2029 | Fiscal 2030 | Fiscal 2031 | Total Project |
| PLANS & ENGINEERING       | 175                       | 75            | 250          | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 250           |
| LAND ACQUISITION          | 400                       | 25            | 425          | 0           | 0           | 0           | 0           | 0           | 0          | 0           | 0           | 0           | 0           | 425           |
| CONSTRUCTION              | 0                         | 400           | 400          | 350         | 0           | 0           | 0           | 0           | 350        | 0           | 0           | 0           | 0           | 750           |
| <b>Total Expenditures</b> | <b>575</b>                | <b>500</b>    | <b>1,075</b> | <b>350</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>350</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>1,425</b>  |
| BONDS                     | 575                       | 500           | 1,075        | 350         | 0           | 0           | 0           | 0           | 350        | 0           | 0           | 0           | 0           | 1,425         |
| <b>Total Funding</b>      | <b>575</b>                | <b>500</b>    | <b>1,075</b> | <b>350</b>  | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>350</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>1,425</b>  |

**\$78,721 spent and encumbered through February 2021**

**\$0 spent and encumbered through February 2020**

**Project Status** FY21 - Initial land acquisition complete. Design of diversion along BGE right-of-way underway along with requisite land acquisition

|                        |     |     |            |     |   |   |   |   |            |   |   |   |   |              |
|------------------------|-----|-----|------------|-----|---|---|---|---|------------|---|---|---|---|--------------|
| FY 2021 Budget         | 575 | 300 | <b>875</b> | 350 | 0 | 0 | 0 | 0 | <b>350</b> | 0 | 0 | 0 |   | <b>1,225</b> |
| Difference 2021 / 2022 | 0   | 200 | <b>200</b> | 0   | 0 | 0 | 0 | 0 | <b>0</b>   | 0 | 0 | 0 | 0 | <b>200</b>   |

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ATTACHMENT 3:  
GENERAL FUND FY2022

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| Department  | FY 2020          | FY 2021          | FY 2021          | FY 2022          |                | Approved vs.Prior Year Authorized |               |               |
|---|------------------|------------------|------------------|------------------|----------------|-----------------------------------|---------------|---------------|
|   | Actual           | Authorized       | Estimated        | Base Budget      | Budget         | Total                             | Difference    | %             |
| <b>3100 - Department of Public Works</b>          | <b>1,312,492</b> | <b>1,291,115</b> | <b>1,159,818</b> | <b>1,213,761</b> | <b>116,300</b> | <b>1,330,061</b>                  | <b>38,946</b> | <b>3.02 %</b> |
| <b>01 - General Fund</b>                          | <b>1,312,492</b> | <b>1,291,115</b> | <b>1,159,818</b> | <b>1,213,761</b> | <b>116,300</b> | <b>1,330,061</b>                  | <b>38,946</b> | <b>3.02 %</b> |
| 50 - Personnel Costs                              | 1,137,414        | 1,134,686        | 992,014          | 1,166,839        | 0              | 1,166,839                         | 32,153        | 2.83 %        |
| 500100 - Salary-Regular                           | 848,038          | 843,419          | 799,148          | 876,390          | 0              | 876,390                           | 32,971        | 3.91 %        |
| 500140 - Disaster Recovery                        | 0                | 0                | 0                | 0                | 0              | 0                                 | 0             | 0.00%         |
| 500900 - Salary-Overtime                          | 107              | 0                | 0                | 0                | 0              | 0                                 | 0             | 0.00%         |
| 501100 - Benefits-FICA                            | 62,818           | 63,679           | 41,887           | 66,214           | 0              | 66,214                            | 2,535         | 3.98 %        |
| 501300 - Benefits-Health Insurance                | 128,070          | 128,070          | 85,380           | 120,825          | 0              | 120,825                           | (7,245)       | -5.66 %       |
| 501500 - Benefits-Retirement                      | 98,381           | 99,518           | 65,599           | 103,410          | 0              | 103,410                           | 3,892         | 3.91 %        |
| 51 - Contractual Services                         | 141,189          | 119,659          | 134,834          | 12,243           | 109,300        | 121,543                           | 1,884         | 1.57 %        |
| 510200 - Telecommunications Wired                 | 750              | 538              | 863              | 534              | 0              | 534                               | (4)           | -0.74 %       |
| 510210 - Telecommunications Wireless              | 3,198            | 2,500            | 2,500            | 0                | 2,500          | 2,500                             | 0             | 0.00 %        |
| 510300 - Printing                                 | 1,143            | 1,000            | 750              | 0                | 1,000          | 1,000                             | 0             | 0.00 %        |
| 510400 - Advertising & Clipping Service           | 0                | 0                | 0                | 0                | 0              | 0                                 | 0             | 0.00%         |
| 511500 - Industrial & Institutionl Eq Maintenance | 8,108            | 102,000          | 101,000          | 0                | 102,000        | 102,000                           | 0             | 0.00 %        |
| 511900 - Software Maintenance                     | 31,439           | 0                | 17,000           | 0                | 0              | 0                                 | 0             | 0.00%         |
| 512100 - Electricity                              | 0                | 500              | 500              | 0                | 500            | 500                               | 0             | 0.00 %        |
| 513100 - Mileage                                  | 0                | 0                | 0                | 0                | 300            | 300                               | 300           | 100.00%       |
| 513110 - Ground Transportation                    | 0                | 0                | 0                | 0                | 0              | 0                                 | 0             | 0.00%         |
| 513500 - Conferences & Seminar Fees               | 0                | 0                | 0                | 0                | 1,000          | 1,000                             | 1,000         | 100.00%       |
| 514355 - Groundwater and Leachate Analysis Svcs   | 0                | 0                | 0                | 0                | 0              | 0                                 | 0             | 0.00%         |
| 514700 - Data Processing Services                 | 12,939           | 11,121           | 11,121           | 11,709           | 0              | 11,709                            | 588           | 5.29 %        |

| Department                                      | FY 2020          | FY 2021          | FY 2021          | FY 2022          |                | Approved vs.Prior Year Authorized |                 |               |
|---|------------------|------------------|------------------|------------------|----------------|-----------------------------------|-----------------|---------------|
|   | Actual           | Authorized       | Estimated        | Base Budget      | Budget         | Total                             | Difference      | %             |
| 514820 - Inspection Services                    | 1,022            | 0                | 0                | 0                | 0              | 0                                 | 0               | 0.00%         |
| 515900 - Other Contractual Services             | 72,679           | 0                | 0                | 0                | 0              | 0                                 | 0               | 0.00%         |
| 515950 - Training Services                      | 1,040            | 2,000            | 1,100            | 0                | 2,000          | 2,000                             | 0               | 0.00 %        |
| 516190 - Other Donations                        | 8,871            | 0                | 0                | 0                | 0              | 0                                 | 0               | 0.00%         |
| 516820 - Association & Membership Dues          | 0                | 0                | 0                | 0                | 0              | 0                                 | 0               | 0.00%         |
| 52 - Supplies and Materials                     | 5,517            | 7,000            | 3,200            | 0                | 7,000          | 7,000                             | 0               | 0.00 %        |
| 520100 - Office Supplies                        | 975              | 2,000            | 1,000            | 0                | 2,000          | 2,000                             | 0               | 0.00 %        |
| 520200 - Data Processing Equipment & Supplies   | 2,619            | 0                | 0                | 0                | 0              | 0                                 | 0               | 0.00%         |
| 521720 - Household Supplies                     | 1,923            | 5,000            | 2,200            | 0                | 5,000          | 5,000                             | 0               | 0.00 %        |
| 53 - Capital Outlay                             | 0                | 0                | 0                | 0                | 0              | 0                                 | 0               | 0.00%         |
| 530500 - Capital Outlay-Equipment               | 0                | 0                | 0                | 0                | 0              | 0                                 | 0               | 0.00%         |
| 58 - Expense Other                              | 28,372           | 29,770           | 29,770           | 34,679           | 0              | 34,679                            | 4,909           | 16.49 %       |
| 581050 - Direct Cost Conversion-Vehicle Charges | 28,372           | 29,770           | 29,770           | 34,679           | 0              | 34,679                            | 4,909           | 16.49 %       |
| <b>Total Budget</b>                             | <b>1,312,492</b> | <b>1,291,115</b> | <b>1,159,818</b> | <b>1,213,761</b> | <b>116,300</b> | <b>1,330,061</b>                  | <b>\$38,946</b> | <b>3.02 %</b> |

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ATTACHMENT 4:  
WATERSHED PROTECTION AND  
RESTORATION FUND FY2022 – DPW

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| Department  | FY 2020          | FY 2021           | FY 2021           | FY 2022        |                  | Approved vs.Prior Year Authorized |                    |                 |
|---|------------------|-------------------|-------------------|----------------|------------------|-----------------------------------|--------------------|-----------------|
|   | Actual           | Authorized        | Estimated         | Base Budget    | Budget           | Total                             | Difference         | %               |
| <b>3100 - Department of Public Works</b>                | <b>6,645,333</b> | <b>14,406,653</b> | <b>14,305,935</b> | <b>946,149</b> | <b>6,093,462</b> | <b>7,039,611</b>                  | <b>(7,367,042)</b> | <b>-51.14 %</b> |
| <b>27 - Watershed Protection &amp; Restoration Fund</b> | <b>6,645,333</b> | <b>14,406,653</b> | <b>14,305,935</b> | <b>946,149</b> | <b>6,093,462</b> | <b>7,039,611</b>                  | <b>(7,367,042)</b> | <b>-51.14 %</b> |
| 50 - Personnel Costs                                    | 681,875          | 697,600           | 686,482           | 716,835        | 0                | 716,835                           | 19,235             | 2.76 %          |
| 500100 - Salary-Regular                                 | 490,580          | 501,250           | 500,367           | 522,916        | 0                | 522,916                           | 21,666             | 4.32 %          |
| 500140 - Disaster Recovery                              | 0                | 0                 | 0                 | 0              | 0                | 0                                 | 0                  | 0.00%           |
| 501100 - Benefits-FICA                                  | 36,099           | 38,346            | 33,831            | 40,012         | 0                | 40,012                            | 1,666              | 4.34 %          |
| 501300 - Benefits-Health Insurance                      | 85,380           | 85,380            | 85,380            | 80,550         | 0                | 80,550                            | (4,830)            | -5.66 %         |
| 501500 - Benefits-Retirement                            | 56,729           | 59,141            | 53,906            | 61,698         | 0                | 61,698                            | 2,557              | 4.32 %          |
| 501700 - Benefits-Workers Compensation                  | 13,087           | 13,483            | 12,998            | 11,659         | 0                | 11,659                            | (1,824)            | -13.53 %        |
| 51 - Contractual Services                               | 1,393,863        | 1,415,118         | 1,325,518         | 212,128        | 1,319,000        | 1,531,128                         | 116,010            | 8.20 %          |
| 510400 - Advertising & Clipping Service                 | 916              | 80,000            | 1,000             | 0              | 80,000           | 80,000                            | 0                  | 0.00 %          |
| 511310 - Radio Maintenance                              | 10,946           | 8,712             | 8,712             | 9,546          | 0                | 9,546                             | 834                | 9.57 %          |
| 511500 - Industrial & Institutionl Eq Maintenance       | 0                | 0                 | 0                 | 0              | 0                | 0                                 | 0                  | 0.00%           |
| 513100 - Mileage  | 0                | 0                 | 0                 | 0              | 0                | 0                                 | 0                  | 0.00%           |
| 513120 - Parking Fees                                   | 0                | 0                 | 0                 | 0              | 0                | 0                                 | 0                  | 0.00%           |
| 514355 - Groundwater and Leachate Analysis Svcs         | 21,009           | 10,000            | 9,900             | 0              | 10,000           | 10,000                            | 0                  | 0.00 %          |
| 514700 - Data Processing Services                       | 223,793          | 192,406           | 192,406           | 202,582        | 0                | 202,582                           | 10,176             | 5.29 %          |
| 514820 - Inspection Services                            | 609,912          | 600,000           | 600,000           | 0              | 600,000          | 600,000                           | 0                  | 0.00 %          |
| 515900 - Other Contractual Services                     | 527,287          | 520,000           | 510,000           | 0              | 625,000          | 625,000                           | 105,000            | 20.19 %         |
| 516820 - Association & Membership Dues                  | 0                | 4,000             | 3,500             | 0              | 4,000            | 4,000                             | 0                  | 0.00 %          |
| 54 - Debt Service                                       | 351,976          | 1,432,518         | 1,432,518         | 0              | 1,377,830        | 1,377,830                         | (54,688)           | -3.82 %         |
| 540100 - Interest Paid-Bonds-Other                      | 108,264          | 620,408           | 620,408           | 0              | 723,070          | 723,070                           | 102,662            | 16.55 %         |



| Department                                  | FY 2020          | FY 2021           | FY 2021           | FY 2022        |                  | Approved vs. Prior Year Authorized |                      |                 |
|---|------------------|-------------------|-------------------|----------------|------------------|------------------------------------|----------------------|-----------------|
|   | Actual           | Authorized        | Estimated         | Base Budget    | Budget           | Total                              | Difference           | %               |
| 540800 - Interest Paid-Loans-Assets         | (154)            | 39,680            | 39,680            | 0              | 39,400           | 39,400                             | (280)                | -0.71 %         |
| 543100 - Principal Expense Paid-Bonds-Other | 243,712          | 621,835           | 621,835           | 0              | 464,480          | 464,480                            | (157,355)            | -25.30 %        |
| 543800 - Principal Exp Pd-Loans-Assets      | 154              | 150,595           | 150,595           | 0              | 150,880          | 150,880                            | 285                  | 0.19 %          |
| 58 - Expense Other                          | 267,619          | 220,037           | 220,037           | 17,186         | 3,396,632        | 3,413,818                          | 3,193,781            | 1,451.47 %      |
| 581010 - Current Operating Cost Conversion  | 248,960          | 202,069           | 202,069           | 0              | 221,603          | 221,603                            | 19,534               | 9.67 %          |
| 581059 - Direct Cost Conversion-GIS         | 15,919           | 17,472            | 17,472            | 16,686         | 0                | 16,686                             | (786)                | -4.50 %         |
| 581097 - Indirect Cost Conversion           | 2,740            | 496               | 496               | 500            | 0                | 500                                | 4                    | 0.81 %          |
| 589800 - Appropriation To Fund Balance      | 0                | 0                 | 0                 | 0              | 3,175,029        | 3,175,029                          | 3,175,029            | 100.00 %        |
| 69 - Operating Transfers                    | 3,950,000        | 10,641,380        | 10,641,380        | 0              | 0                | 0                                  | (10,641,380)         | -100.00 %       |
| 695000 - Operating Transfers Out-Budg-Other | 3,950,000        | 10,641,380        | 10,641,380        | 0              | 0                | 0                                  | (10,641,380)         | -100.00 %       |
| <b>Total Budget</b>                         | <b>6,645,333</b> | <b>14,406,653</b> | <b>14,305,935</b> | <b>946,149</b> | <b>6,093,462</b> | <b>7,039,611</b>                   | <b>(\$7,367,042)</b> | <b>-51.14 %</b> |

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ATTACHMENT 5:  
WATERSHED PROTECTION AND  
RESTORATION FUND FY2022 – ALL

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|   | FY 2020          | FY 2021           | FY 2021           | FY 2022          |                  |             | Approved vs.Prior Year Authorized |                    |                 |
|---|------------------|-------------------|-------------------|------------------|------------------|-------------|-----------------------------------|--------------------|-----------------|
|   | Actual           | Authorized        | Estimated         | Base Budget      | Budget           | New Efforts | Total                             | Difference         | %               |
| <b>27 - Watershed Protection &amp; Restoration Fund</b>   | <b>9,018,048</b> | <b>17,167,659</b> | <b>16,984,757</b> | <b>1,564,032</b> | <b>8,306,318</b> | <b>0</b>    | <b>9,870,350</b>                  | <b>(7,297,309)</b> | <b>-42.51 %</b> |
| <b>7360000000 - Watershed Protection &amp; Restoration Fund</b>                                     | <b>9,018,048</b> | <b>17,167,659</b> | <b>16,984,757</b> | <b>1,564,032</b> | <b>8,306,318</b> | <b>0</b>    | <b>9,870,350</b>                  | <b>(7,297,309)</b> | <b>-42.51 %</b> |
| <b>1100 - Department of County Administration</b>   | <b>868,550</b>   | <b>1,238,204</b>  | <b>1,166,428</b>  | <b>307,180</b>   | <b>976,141</b>   | <b>0</b>    | <b>1,283,321</b>                  | <b>45,117</b>      | <b>3.64 %</b>   |
| <b>1120000000 - Community Sustainability</b>  | <b>868,550</b>   | <b>1,238,204</b>  | <b>1,166,428</b>  | <b>307,180</b>   | <b>976,141</b>   | <b>0</b>    | <b>1,283,321</b>                  | <b>45,117</b>      | <b>3.64 %</b>   |
| <b>9999999999999999999000 - Administration</b>  | <b>868,550</b>   | <b>1,238,204</b>  | <b>1,166,428</b>  | <b>307,180</b>   | <b>976,141</b>   | <b>0</b>    | <b>1,283,321</b>                  | <b>45,117</b>      | <b>3.64 %</b>   |
| <b>50 - Personnel Costs</b>   | <b>208,614</b>   | <b>209,056</b>    | <b>197,880</b>    | <b>268,204</b>   | <b>-48,403</b>   | <b>0</b>    | <b>219,801</b>                    | <b>10,745</b>      | <b>5.14 %</b>   |
| <b>500100 - Salary-Regular</b>  | <b>143,093</b>   | <b>145,419</b>    | <b>142,215</b>    | <b>190,820</b>   | <b>-38,335</b>   | <b>0</b>    | <b>152,485</b>                    | <b>7,066</b>       | <b>4.86 %</b>   |
| <b>GGGG0000000000000</b>  | <b>143,093</b>   | <b>145,419</b>    | <b>142,215</b>    | <b>190,820</b>   | <b>-38,335</b>   | <b>0</b>    | <b>152,485</b>                    | <b>7,066</b>       | <b>4.86 %</b>   |
| <i>Subtract 25% of Lindsay's &amp; Julie's salary that is funded by OCS General Fund.</i>           |                  |                   |                   |                  |                  |             |                                   |                    |                 |
| <b>500190 - Salary-Other</b>  | <b>0</b>         | <b>0</b>          | <b>0</b>          | <b>0</b>         | <b>4,100</b>     | <b>0</b>    | <b>4,100</b>                      | <b>4,100</b>       | <b>100.00%</b>  |
| <b>GGGG0000000000000</b>  | <b>0</b>         | <b>0</b>          | <b>0</b>          | <b>0</b>         | <b>4,100</b>     | <b>0</b>    | <b>4,100</b>                      | <b>4,100</b>       | <b>100.00%</b>  |
| <b>501100 - Benefits-FICA</b>   | <b>9,306</b>     | <b>11,125</b>     | <b>10,874</b>     | <b>14,596</b>    | <b>-2,932</b>    | <b>0</b>    | <b>11,664</b>                     | <b>539</b>         | <b>4.84 %</b>   |
| <b>GGGG0000000000000</b>  | <b>9,306</b>     | <b>11,125</b>     | <b>10,874</b>     | <b>14,596</b>    | <b>-2,932</b>    | <b>0</b>    | <b>11,664</b>                     | <b>539</b>         | <b>4.84 %</b>   |
| <i>Subtract 25% of Lindsay's &amp; Julie's FICA that is funded by OCS General Fund</i>              |                  |                   |                   |                  |                  |             |                                   |                    |                 |
| <b>501300 - Benefits-Health Insurance</b>   | <b>35,575</b>    | <b>35,575</b>     | <b>35,575</b>     | <b>40,275</b>    | <b>-6,713</b>    | <b>0</b>    | <b>33,562</b>                     | <b>(2,013)</b>     | <b>-5.66 %</b>  |
| <b>GGGG0000000000000</b>  | <b>35,575</b>    | <b>35,575</b>     | <b>35,575</b>     | <b>40,275</b>    | <b>-6,713</b>    | <b>0</b>    | <b>33,562</b>                     | <b>(2,013)</b>     | <b>-5.66 %</b>  |
| <i>Subtract 25% of Lindsay's &amp; Julie's Health Insurance that is funded by OCS General Fund.</i> |                  |                   |                   |                  |                  |             |                                   |                    |                 |
| <b>501500 - Benefits-Retirement</b>   | <b>20,640</b>    | <b>16,937</b>     | <b>9,216</b>      | <b>22,513</b>    | <b>-4,523</b>    | <b>0</b>    | <b>17,990</b>                     | <b>1,053</b>       | <b>6.22 %</b>   |
| <b>GGGG0000000000000</b>  | <b>20,640</b>    | <b>16,937</b>     | <b>9,216</b>      | <b>22,513</b>    | <b>-4,523</b>    | <b>0</b>    | <b>17,990</b>                     | <b>1,053</b>       | <b>6.22 %</b>   |
| <i>Subtract 25% of Lindsay's &amp; Julie's Retirement that is funded by OCS General Fund.</i>       |                  |                   |                   |                  |                  |             |                                   |                    |                 |

|   | FY 2020        | FY 2021        | FY 2021        | FY 2022       |                | Approved vs. Prior Year Authorized |                |                 |                  |
|---|----------------|----------------|----------------|---------------|----------------|------------------------------------|----------------|-----------------|------------------|
|   | Actual         | Authorized     | Estimated      | Base Budget   | Budget         | New Efforts                        | Total          | Difference      | %                |
| <b>51 - Contractual Services</b>                  | <b>512,179</b> | <b>910,400</b> | <b>849,740</b> | <b>17,889</b> | <b>926,750</b> | <b>0</b>                           | <b>944,639</b> | <b>34,239</b>   | <b>3.76 %</b>    |
| 510300 - Printing                                 | 0              | 5,000          | 5,000          | 0             | 3,000          | 0                                  | 3,000          | (2,000)         | -40.00 %         |
| GGGG000000000000                                  | 0              | 5,000          | 5,000          | 0             | 3,000          | 0                                  | 3,000          | (2,000)         | -40.00 %         |
| <i>Innovation Grant Signage.</i>                  |                |                |                |               |                |                                    |                |                 |                  |
| <b>512230 - Stormwater Reimbursement</b>          | <b>131,052</b> | <b>330,000</b> | <b>270,000</b> | <b>0</b>      | <b>250,000</b> | <b>0</b>                           | <b>250,000</b> | <b>(80,000)</b> | <b>-24.24 %</b>  |
| GGGG000000000000                                  | 131,052        | 330,000        | 270,000        | 0             | 250,000        | 0                                  | 250,000        | (80,000)        | -24.24 %         |
| <i>Cleanscapes 150k, Septic Savers 100k</i>       |                |                |                |               |                |                                    |                |                 |                  |
| <b>513100 - Mileage</b>                           | <b>215</b>     | <b>500</b>     | <b>500</b>     | <b>0</b>      | <b>500</b>     | <b>0</b>                           | <b>500</b>     | <b>0</b>        | <b>0.00 %</b>    |
| GGGG000000000000                                  | 215            | 500            | 500            | 0             | 500            | 0                                  | 500            | 0               | 0.00 %           |
| <b>513120 - Parking Fees</b>                      | <b>114</b>     | <b>100</b>     | <b>100</b>     | <b>0</b>      | <b>100</b>     | <b>0</b>                           | <b>100</b>     | <b>0</b>        | <b>0.00 %</b>    |
| GGGG000000000000                                  | 114            | 100            | 100            | 0             | 100            | 0                                  | 100            | 0               | 0.00 %           |
| <b>513200 - Lodging</b>                           | <b>0</b>       | <b>300</b>     | <b>0</b>       | <b>0</b>      | <b>0</b>       | <b>0</b>                           | <b>0</b>       | <b>(300)</b>    | <b>-100.00 %</b> |
| GGGG000000000000                                  | 0              | 300            | 0              | 0             | 0              | 0                                  | 0              | (300)           | -100.00 %        |
| <b>513500 - Conferences &amp; Seminar Fees</b>    | <b>489</b>     | <b>2,500</b>   | <b>2,500</b>   | <b>0</b>      | <b>2,000</b>   | <b>0</b>                           | <b>2,000</b>   | <b>(500)</b>    | <b>-20.00 %</b>  |
| GGGG000000000000                                  | 489            | 2,500          | 2,500          | 0             | 2,000          | 0                                  | 2,000          | (500)           | -20.00 %         |
| <b>514700 - Data Processing Services</b>          | <b>0</b>       | <b>16,990</b>  | <b>16,990</b>  | <b>17,889</b> | <b>0</b>       | <b>0</b>                           | <b>17,889</b>  | <b>899</b>      | <b>5.29 %</b>    |
| GGGG000000000000                                  | 0              | 16,990         | 16,990         | 17,889        | 0              | 0                                  | 17,889         | 899             | 5.29 %           |
| <b>515900 - Other Contractual Services</b>        | <b>380,159</b> | <b>554,360</b> | <b>554,000</b> | <b>0</b>      | <b>670,000</b> | <b>0</b>                           | <b>670,000</b> | <b>115,640</b>  | <b>20.86 %</b>   |
| GGGG000000000000                                  | 380,159        | 554,360        | 554,000        | 0             | 670,000        | 0                                  | 670,000        | 115,640         | 20.86 %          |
| <b>515950 - Training Services</b>                 | <b>150</b>     | <b>500</b>     | <b>500</b>     | <b>0</b>      | <b>1,000</b>   | <b>0</b>                           | <b>1,000</b>   | <b>500</b>      | <b>100.00 %</b>  |
| GGGG000000000000                                  | 150            | 500            | 500            | 0             | 1,000          | 0                                  | 1,000          | 500             | 100.00 %         |
| <b>516820 - Association &amp; Membership Dues</b> | <b>0</b>       | <b>150</b>     | <b>150</b>     | <b>0</b>      | <b>150</b>     | <b>0</b>                           | <b>150</b>     | <b>0</b>        | <b>0.00 %</b>    |
| GGGG000000000000                                  | 0              | 150            | 150            | 0             | 150            | 0                                  | 150            | 0               | 0.00 %           |

|  | FY 2020          | FY 2021           | FY 2021           | FY 2022          |                  |             | Approved vs. Prior Year Authorized |                    |                 |
|--|------------------|-------------------|-------------------|------------------|------------------|-------------|------------------------------------|--------------------|-----------------|
|  | Actual           | Authorized        | Estimated         | Base Budget      | Budget           | New Efforts | Total                              | Difference         | %               |
| <b>52 - Supplies and Materials</b>                 | <b>1,271</b>     | <b>10,400</b>     | <b>10,460</b>     | <b>0</b>         | <b>5,460</b>     | <b>0</b>    | <b>5,460</b>                       | <b>(4,940)</b>     | <b>-47.50 %</b> |
| 520100 - Office Supplies                           | 94               | 100               | 100               | 0                | 100              | 0           | 100                                | 0                  | 0.00 %          |
| GGGG000000000000                                   | 94               | 100               | 100               | 0                | 100              | 0           | 100                                | 0                  | 0.00 %          |
| 520250 - Software/Licenses                         | 0                | 0                 | 360               | 0                | 360              | 0           | 360                                | 360                | 100.00%         |
| GGGG000000000000                                   | 0                | 0                 | 360               | 0                | 360              | 0           | 360                                | 360                | 100.00%         |
| <i>Basecamp - project management software</i>      |                  |                   |                   |                  |                  |             |                                    |                    |                 |
| 520400 - Promotional Materials                     | 0                | 10,000            | 10,000            | 0                | 5,000            | 0           | 5,000                              | (5,000)            | -50.00 %        |
| GGGG000000000000                                   | 0                | 10,000            | 10,000            | 0                | 5,000            | 0           | 5,000                              | (5,000)            | -50.00 %        |
| 521500 - Food Purchases                            | 149              | 300               | 0                 | 0                | 0                | 0           | 0                                  | (300)              | -100.00 %       |
| GGGG000000000000                                   | 149              | 300               | 0                 | 0                | 0                | 0           | 0                                  | (300)              | -100.00 %       |
| 521810 - Landscape and Soil Retention<br>Materials | 1,028            | 0                 | 0                 | 0                | 0                | 0           | 0                                  | 0                  | 0.00%           |
| GGGG000000000000                                   | 1,028            | 0                 | 0                 | 0                | 0                | 0           | 0                                  | 0                  | 0.00%           |
| <b>58 - Expense Other</b>                          | <b>146,486</b>   | <b>108,348</b>    | <b>108,348</b>    | <b>21,087</b>    | <b>92,334</b>    | <b>0</b>    | <b>113,421</b>                     | <b>5,073</b>       | <b>4.68 %</b>   |
| 581010 - Current Operating Cost<br>Conversion      | 124,480          | 84,195            | 84,195            | 0                | 92,334           | 0           | 92,334                             | 8,139              | 9.67 %          |
| GGGG000000000000                                   | 124,480          | 84,195            | 84,195            | 0                | 92,334           | 0           | 92,334                             | 8,139              | 9.67 %          |
| 581059 - Direct Cost Conversion-GIS                | 22,006           | 24,153            | 24,153            | 21,087           | 0                | 0           | 21,087                             | (3,066)            | -12.69 %        |
| GGGG000000000000                                   | 22,006           | 24,153            | 24,153            | 21,087           | 0                | 0           | 21,087                             | (3,066)            | -12.69 %        |
| <b>3100 - Department of Public Works</b>           | <b>8,038,366</b> | <b>15,810,496</b> | <b>15,699,370</b> | <b>1,256,852</b> | <b>7,205,631</b> | <b>0</b>    | <b>8,462,483</b>                   | <b>(7,348,013)</b> | <b>-46.48 %</b> |
| 3122000000 - Highways - Maintenance                | 1,393,033        | 1,403,843         | 1,393,435         | 310,703          | 1,112,169        | 0           | 1,422,872                          | 19,029             | 1.36 %          |
| 999999999999999999900 -<br>Administration          | 1,393,033        | 1,403,843         | 1,393,435         | 310,703          | 1,112,169        | 0           | 1,422,872                          | 19,029             | 1.36 %          |

|                                     | FY 2020        | FY 2021        | FY 2021        | FY 2022        |              |             | Approved vs. Prior Year Authorized |              |               |
|-------------------------------------|----------------|----------------|----------------|----------------|--------------|-------------|------------------------------------|--------------|---------------|
|                                     | Actual         | Authorized     | Estimated      | Base Budget    | Budget       | New Efforts | Total                              | Difference   | %             |
| <b>50 - Personnel Costs</b>         | <b>234,234</b> | <b>315,149</b> | <b>307,935</b> | <b>310,415</b> | <b>7,500</b> | <b>0</b>    | <b>317,915</b>                     | <b>2,766</b> | <b>0.88 %</b> |
| 500100 - Salary-Regular             | 133,624        | 197,986        | 192,236        | 203,672        | 0            | 0           | 203,672                            | 5,686        | 2.87 %        |
| PWPW000000000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMAD00000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMSW00000000                    | 133,624        | 197,986        | 192,236        | 203,672        | 0            | 0           | 203,672                            | 5,686        | 2.87 %        |
| 500190 - Salary-Other               | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPW000000000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMAD00000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| 500900 - Salary-Overtime            | 3,878          | 7,500          | 6,996          | 0              | 7,500        | 0           | 7,500                              | 0            | 0.00 %        |
| PWPW000000000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMAD00000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMSW00000000                    | 3,878          | 7,500          | 6,996          | 0              | 7,500        | 0           | 7,500                              | 0            | 0.00 %        |
| 500940 - Disaster Recovery Overtime | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMSW00000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| 501000 - Benefits-Pensions Paid     | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPW000000000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| 501100 - Benefits-FICA              | 10,303         | 15,143         | 15,112         | 15,590         | 0            | 0           | 15,590                             | 447          | 2.95 %        |
| PWPW000000000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMAD00000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMSW00000000                    | 10,303         | 15,143         | 15,112         | 15,590         | 0            | 0           | 15,590                             | 447          | 2.95 %        |
| 501300 - Benefits-Health Insurance  | 71,150         | 71,150         | 71,150         | 67,125         | 0            | 0           | 67,125                             | (4,025)      | -5.66 %       |
| PWPWHMAD00000000                    | 0              | 0              | 0              | 0              | 0            | 0           | 0                                  | 0            | 0.00%         |
| PWPWHMSW00000000                    | 71,150         | 71,150         | 71,150         | 67,125         | 0            | 0           | 67,125                             | (4,025)      | -5.66 %       |

|   | FY 2020 | FY 2021    | FY 2021   | FY 2022     |         |             | Approved vs. Prior Year Authorized |            |         |
|---|---------|------------|-----------|-------------|---------|-------------|------------------------------------|------------|---------|
|   | Actual  | Authorized | Estimated | Base Budget | Budget  | New Efforts | Total                              | Difference | %       |
| 501500 - Benefits-Retirement                      | 15,279  | 23,370     | 22,441    | 24,028      | 0       | 0           | 24,028                             | 658        | 2.82 %  |
| PWPWHMAD00000000                                  | 0       | 0          | 0         | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| PWPWHMSW00000000                                  | 15,279  | 23,370     | 22,441    | 24,028      | 0       | 0           | 24,028                             | 658        | 2.82 %  |
| 51 - Contractual Services                         | 896,339 | 820,303    | 819,445   | 288         | 820,000 | 0           | 820,288                            | (15)       | 0.00 %  |
| 510500 - Copier Charges                           | 0       | 303        | 303       | 288         | 0       | 0           | 288                                | (15)       | -4.95 % |
| PWPW000000000000                                  | 0       | 303        | 303       | 288         | 0       | 0           | 288                                | (15)       | -4.95 % |
| 511500 - Industrial & Institutionl Eq Maintenance | 0       | 70,000     | 70,146    | 0           | 70,000  | 0           | 70,000                             | 0          | 0.00 %  |
| PWPWHMSW00000000                                  | 0       | 70,000     | 70,146    | 0           | 70,000  | 0           | 70,000                             | 0          | 0.00 %  |
| 515215 - Uniform Rental                           | 0       | 0          | 944       | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| PWPWHMSW00000000                                  | 0       | 0          | 944       | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| 515780 - Construction Site Work                   | 877,841 | 0          | 0         | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| PWPW000000000000                                  | 437,852 | 0          | 0         | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| PWPWHMRM00000000                                  | 0       | 0          | 0         | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| PWPWHMSW00000000                                  | 439,989 | 0          | 0         | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| 515790 - Other Construction Services              | 0       | 250,000    | 250,000   | 0           | 250,000 | 0           | 250,000                            | 0          | 0.00 %  |
| PWPWHMSW00000000                                  | 0       | 250,000    | 250,000   | 0           | 250,000 | 0           | 250,000                            | 0          | 0.00 %  |
| 515900 - Other Contractual Services               | 18,498  | 500,000    | 498,052   | 0           | 500,000 | 0           | 500,000                            | 0          | 0.00 %  |
| PWPWHMSW00000000                                  | 18,498  | 500,000    | 498,052   | 0           | 500,000 | 0           | 500,000                            | 0          | 0.00 %  |
| 52 - Supplies and Materials                       | 0       | 100,000    | 97,664    | 0           | 100,000 | 0           | 100,000                            | 0          | 0.00 %  |
| 520550 - Ticket Purchases                         | 0       | 0          | 357       | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| PWPWHMSW00000000                                  | 0       | 0          | 357       | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| 520900 - Safety Equipment & Supplies              | 0       | 0          | 1,800     | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |
| PWPWHMSW00000000                                  | 0       | 0          | 1,800     | 0           | 0       | 0           | 0                                  | 0          | 0.00%   |

|  | FY 2020   | FY 2021    | FY 2021    | FY 2022     |           |             | Approved vs. Prior Year Authorized |             |         |
|--|-----------|------------|------------|-------------|-----------|-------------|------------------------------------|-------------|---------|
|  | Actual    | Authorized | Estimated  | Base Budget | Budget    | New Efforts | Total                              | Difference  | %       |
| 521730 - Hardware & Related Supplies           | 0         | 0          | 3,513      | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| PWPWHMSW00000000                               | 0         | 0          | 3,513      | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| 521750 - Plumbing Equipment & Supplies         | 0         | 100,000    | 80,000     | 0           | 100,000   | 0           | 100,000                            | 0           | 0.00%   |
| PWPWHMSW00000000                               | 0         | 100,000    | 80,000     | 0           | 100,000   | 0           | 100,000                            | 0           | 0.00%   |
| 521800 - Seed                                  | 0         | 0          | 1,200      | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| PWPWHMSW00000000                               | 0         | 0          | 1,200      | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| 522190 - Other Vehicle Equipment & Supplies    | 0         | 0          | 10,794     | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| PWPWHMSW00000000                               | 0         | 0          | 10,794     | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| 522200 - Road Maintenance Equipment & Supplies | 0         | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| PWPWHMSW00000000                               | 0         | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| 53 - Capital Outlay                            | 13,500    | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| 530500 - Capital Outlay-Equipment              | 13,500    | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| PWPWHMSW00000000                               | 13,500    | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| 530560 - Capital Outlay-Vehicles               | 0         | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| PWPW000000000000                               | 0         | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| PWPWHMSW00000000                               | 0         | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| 58 - Expense Other                             | 248,960   | 168,391    | 168,391    | 0           | 184,669   | 0           | 184,669                            | 16,278      | 9.67%   |
| 581010 - Current Operating Cost Conversion     | 248,960   | 168,391    | 168,391    | 0           | 184,669   | 0           | 184,669                            | 16,278      | 9.67%   |
| PWPW000000000000                               | 248,960   | 0          | 0          | 0           | 0         | 0           | 0                                  | 0           | 0.00%   |
| PWPWHMSW00000000                               | 0         | 168,391    | 168,391    | 0           | 184,669   | 0           | 184,669                            | 16,278      | 9.67%   |
| 314200000 - Env Stormwater Mgmt                | 6,645,333 | 14,406,653 | 14,305,935 | 946,149     | 6,093,462 | 0           | 7,039,611                          | (7,367,042) | -51.14% |



|  | FY 2020          | FY 2021           | FY 2021           | FY 2022        |                  |             | Approved vs.Prior Year Authorized |                    |                 |
|--|------------------|-------------------|-------------------|----------------|------------------|-------------|-----------------------------------|--------------------|-----------------|
|  | Actual           | Authorized        | Estimated         | Base Budget    | Budget           | New Efforts | Total                             | Difference         | %               |
| <b>99999999999999999999999999999999 - Administration</b> | <b>6,645,333</b> | <b>14,406,653</b> | <b>14,305,935</b> | <b>946,149</b> | <b>6,093,462</b> | <b>0</b>    | <b>7,039,611</b>                  | <b>(7,367,042)</b> | <b>-51.14 %</b> |
| 50 - Personnel Costs                                     | 681,875          | 697,600           | 686,482           | 716,835        | 0                | 0           | 716,835                           | 19,235             | 2.76 %          |
| 500100 - Salary-Regular                                  | 490,580          | 501,250           | 500,367           | 522,916        | 0                | 0           | 522,916                           | 21,666             | 4.32 %          |
| PWPW000000000000   | 490,580          | 501,250           | 500,367           | 522,916        | 0                | 0           | 522,916                           | 21,666             | 4.32 %          |
| 500140 - Disaster Recovery                               | 0                | 0                 | 0                 | 0              | 0                | 0           | 0                                 | 0                  | 0.00 %          |
| PWPW000000000000   | 0                | 0                 | 0                 | 0              | 0                | 0           | 0                                 | 0                  | 0.00 %          |
| 501100 - Benefits-FICA                                   | 36,099           | 38,346            | 33,831            | 40,012         | 0                | 0           | 40,012                            | 1,666              | 4.34 %          |
| PWPW000000000000   | 36,099           | 38,346            | 33,831            | 40,012         | 0                | 0           | 40,012                            | 1,666              | 4.34 %          |
| 501300 - Benefits-Health Insurance                       | 85,380           | 85,380            | 85,380            | 80,550         | 0                | 0           | 80,550                            | (4,830)            | -5.66 %         |
| PWPW000000000000   | 85,380           | 85,380            | 85,380            | 80,550         | 0                | 0           | 80,550                            | (4,830)            | -5.66 %         |
| 501500 - Benefits-Retirement                             | 56,729           | 59,141            | 53,906            | 61,698         | 0                | 0           | 61,698                            | 2,557              | 4.32 %          |
| PWPW000000000000   | 56,729           | 59,141            | 53,906            | 61,698         | 0                | 0           | 61,698                            | 2,557              | 4.32 %          |
| 501700 - Benefits-Workers Compensation                   | 13,087           | 13,483            | 12,998            | 11,659         | 0                | 0           | 11,659                            | (1,824)            | -13.53 %        |
| PWPW000000000000   | 13,087           | 13,483            | 12,998            | 11,659         | 0                | 0           | 11,659                            | (1,824)            | -13.53 %        |
| 51 - Contractual Services                                | 1,393,863        | 1,415,118         | 1,325,518         | 212,128        | 1,319,000        | 0           | 1,531,128                         | 116,010            | 8.20 %          |
| 510400 - Advertising & Clipping Service                  | 916              | 80,000            | 1,000             | 0              | 80,000           | 0           | 80,000                            | 0                  | 0.00 %          |
| PWPW000000000000   | 916              | 80,000            | 1,000             | 0              | 80,000           | 0           | 80,000                            | 0                  | 0.00 %          |
| 511310 - Radio Maintenance                               | 10,946           | 8,712             | 8,712             | 9,546          | 0                | 0           | 9,546                             | 834                | 9.57 %          |
| PWPW000000000000   | 10,946           | 8,712             | 8,712             | 9,546          | 0                | 0           | 9,546                             | 834                | 9.57 %          |
| 511500 - Industrial & Institutionl Eq Maintenance        | 0                | 0                 | 0                 | 0              | 0                | 0           | 0                                 | 0                  | 0.00 %          |
| PWPW000000000000   | 0                | 0                 | 0                 | 0              | 0                | 0           | 0                                 | 0                  | 0.00 %          |

|   | FY 2020 | FY 2021    | FY 2021   | FY 2022     |           |             | Approved vs. Prior Year Authorized |            |          |
|---|---------|------------|-----------|-------------|-----------|-------------|------------------------------------|------------|----------|
|   | Actual  | Authorized | Estimated | Base Budget | Budget    | New Efforts | Total                              | Difference | %        |
| 513100 - Mileage                                | 0       | 0          | 0         | 0           | 0         | 0           | 0                                  | 0          | 0.00%    |
| PWPW000000000000                                | 0       | 0          | 0         | 0           | 0         | 0           | 0                                  | 0          | 0.00%    |
| 513120 - Parking Fees                           | 0       | 0          | 0         | 0           | 0         | 0           | 0                                  | 0          | 0.00%    |
| PWPW000000000000                                | 0       | 0          | 0         | 0           | 0         | 0           | 0                                  | 0          | 0.00%    |
| 514355 - Groundwater and Leachate Analysis Svcs | 21,009  | 10,000     | 9,900     | 0           | 10,000    | 0           | 10,000                             | 0          | 0.00 %   |
| PWPW000000000000                                | 21,009  | 10,000     | 9,900     | 0           | 10,000    | 0           | 10,000                             | 0          | 0.00 %   |
| 514700 - Data Processing Services               | 223,793 | 192,406    | 192,406   | 202,582     | 0         | 0           | 202,582                            | 10,176     | 5.29 %   |
| PWPW000000000000                                | 223,793 | 192,406    | 192,406   | 202,582     | 0         | 0           | 202,582                            | 10,176     | 5.29 %   |
| 514820 - Inspection Services                    | 609,912 | 600,000    | 600,000   | 0           | 600,000   | 0           | 600,000                            | 0          | 0.00 %   |
| PWPW000000000000                                | 609,912 | 600,000    | 600,000   | 0           | 600,000   | 0           | 600,000                            | 0          | 0.00 %   |
| 515900 - Other Contractual Services             | 527,287 | 520,000    | 510,000   | 0           | 625,000   | 0           | 625,000                            | 105,000    | 20.19 %  |
| PWPW000000000000                                | 527,287 | 520,000    | 510,000   | 0           | 625,000   | 0           | 625,000                            | 105,000    | 20.19 %  |
| 516820 - Association & Membership Dues          | 0       | 4,000      | 3,500     | 0           | 4,000     | 0           | 4,000                              | 0          | 0.00 %   |
| PWPW000000000000                                | 0       | 4,000      | 3,500     | 0           | 4,000     | 0           | 4,000                              | 0          | 0.00 %   |
| 54 - Debt Service                               | 351,976 | 1,432,518  | 1,432,518 | 0           | 1,377,830 | 0           | 1,377,830                          | (54,688)   | -3.82 %  |
| 540100 - Interest Paid-Bonds-Other              | 108,264 | 620,408    | 620,408   | 0           | 723,070   | 0           | 723,070                            | 102,662    | 16.55 %  |
| PWPW000000000000                                | 108,264 | 620,408    | 620,408   | 0           | 723,070   | 0           | 723,070                            | 102,662    | 16.55 %  |
| 540800 - Interest Paid-Loans-Assets             | (154)   | 39,680     | 39,680    | 0           | 39,400    | 0           | 39,400                             | (280)      | -0.71 %  |
| PWPW000000000000                                | (154)   | 39,680     | 39,680    | 0           | 39,400    | 0           | 39,400                             | (280)      | -0.71 %  |
| 543100 - Principal Expense Paid-Bonds-Other     | 243,712 | 621,835    | 621,835   | 0           | 464,480   | 0           | 464,480                            | (157,355)  | -25.30 % |
| PWPW000000000000                                | 243,712 | 621,835    | 621,835   | 0           | 464,480   | 0           | 464,480                            | (157,355)  | -25.30 % |



|                              | FY 2020          | FY 2021           | FY 2021           | FY 2022          |                  |             | Approved vs. Prior Year Authorized |                      |                 |
|------------------------------|------------------|-------------------|-------------------|------------------|------------------|-------------|------------------------------------|----------------------|-----------------|
|                              | Actual           | Authorized        | Estimated         | Base Budget      | Budget           | New Efforts | Total                              | Difference           | %               |
| 501500 - Benefits-Retirement | 9,059            | 0                 | 9,935             | 0                | 10,427           | 0           | 10,427                             | 10,427               | 100.00%         |
| CSCS0000000000000            | 0                | 0                 | 9,935             | 0                | 10,427           | 0           | 10,427                             | 10,427               | 100.00%         |
| PWPW0000000000000            | 9,059            | 0                 | 0                 | 0                | 0                | 0           | 0                                  | 0                    | 0.00%           |
| 51 - Contractual Services    | 84,824           | 100,571           | 90,636            | 0                | 95,126           | 0           | 95,126                             | (5,445)              | -5.41 %         |
| 516190 - Other Donations     | 84,824           | 100,571           | 90,636            | 0                | 95,126           | 0           | 95,126                             | (5,445)              | -5.41 %         |
| CSCS0000000000000            | 0                | 100,571           | 90,636            | 0                | 95,126           | 0           | 95,126                             | (5,445)              | -5.41 %         |
| PWPW0000000000000            | 84,824           | 0                 | 0                 | 0                | 0                | 0           | 0                                  | 0                    | 0.00%           |
| <b>Total Budget</b>          | <b>9,018,048</b> | <b>17,167,659</b> | <b>16,984,757</b> | <b>1,564,032</b> | <b>8,306,318</b> | <b>0</b>    | <b>9,870,350</b>                   | <b>(\$7,297,309)</b> | <b>-42.51 %</b> |

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ATTACHMENT 6:  
FINANCIAL CAPACITY SPREADSHEET

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| <b>Financial Capacity Spreadsheet</b> |  |                                      |                       |
|---------------------------------------|--|--------------------------------------|-----------------------|
| 1                                     | County/City Name   | Howard County, MD                    |                       |
| 2                                     | Cost As A Percent Of Household Income  |                                      |                       |
| 2a                                    | Median Household Income (MHI)  | \$                                   | 121,160               |
| 2b                                    | Total Number Of Households In Jurisdiction   |                                      | 114,170               |
| 2c                                    | Average Annual Cost For Public Stormwater Related Management Programs                        | \$                                   | <b>42,608,400.75</b>  |
| 2d                                    | Annual Cost For Public Stormwater Related Management Programs Per Household                  | \$                                   | 373.20                |
| 2e                                    | % Of MHI Spent On Public Stormwater Related Management Programs                              |                                      | 0.31%                 |
| 2f                                    | Total Annual Stormwater Remediation Fee Per Household  | \$                                   | 40.17                 |
| 2g                                    | % Of MHI Spent Annually On Stormwater Remediation Fee  |                                      | 0.03%                 |
| 3                                     | Cost Of Impervious Surface Restoration As A Percent Of Household Income                      |                                      |                       |
| 3a                                    | Total In Previous Permit Term Spent On The Impervious Surface Restoration Plan (ISRP)        | \$                                   | 56,836,251.00         |
| 3b                                    | Average Annual Cost Of The ISRP During The Previous Permit Term                              | \$                                   | 5,982,763.26          |
| 3c                                    | Annual Cost Of The ISRP Per Household During The Previous Permit Term                        | \$                                   | 52.40                 |
| 3d                                    | % Of MHI Spent On The ISRP During The Previous Permit Term                                   |                                      | 0.04%                 |
| 3e                                    | Total Projected Cost For Restoration Portfolio   | \$                                   | <b>340,867,206.00</b> |
| 3f                                    | Projected Annual Cost For Restoration Portfolio  | \$                                   | <b>42,608,400.75</b>  |
| 3g                                    | Projected Annual Cost For Restoration Portfolio Per Household                                | \$                                   | 373.20                |
| 3h                                    | % Of MHI Spent On Projected Cost Of Restoration Portfolio                                    |                                      | 0.31%                 |
| 4                                     | Cost For Low-Income Residential Customers As A Percent Of Household Income                   |                                      |                       |
| 4a                                    | Percentage Of Households With Annual Income <\$25,000  |                                      | 7.70%                 |
| 4b                                    | % Of Income For Low Income Households Spent On Public Stormwater Related Management Programs |                                      | 1.49%                 |
| 4c                                    | % Of Income For Low Income Households Spent On Stormwater Remediation Fees                   |                                      | 0.16%                 |
| 4d                                    | % Of Income For Low Income Household Spent On The ISRP                                       |                                      | 0.21%                 |
| 4e                                    | % Of MHI For Low Income House Spent On Projected Cost Of Restoration Portfolio               |                                      | 1.49%                 |
| 5                                     | Key Socioeconomic Indicators   |                                      |                       |
| 5a                                    | Percentage Unemployed  |                                      | 2.70%                 |
| 5b                                    | Median Household Income  | \$                                   | 121,160               |
| 5c                                    | Percent Of Individuals (All People) Below Poverty Level                                      |                                      | 5.00%                 |
| 6                                     | Financial Capacity Indicators  |                                      |                       |
| 6a                                    | Debt Indicators  | Bond Rating – GO <sup>1</sup> Bonds  | Aaa                   |
| 6b                                    |  | Bond Rating – Revenue Bonds          | N/A                   |
| 6c                                    |  | Net Debt As A % Of FMPV <sup>2</sup> | 2.29%                 |
| 6d                                    | Financial Management Indicators  | Property Tax Revenues As % Of FMPV   | 1.22%                 |
| 6e                                    |  | Property Tax Revenue Collection Rate | 99.25%                |

Notes:

1. GO = General Obligation

2. FMPV = Full Market Property Value