

# OFFICIAL STATEMENT DATED MAY 15, 2019

## New Issue – Book-Entry Only

*Under existing statutes, regulations and decisions, the interest on the Bonds and profit realized from their sale or exchange will be exempt from State of Maryland income taxation. No opinion is expressed as to estate or inheritance taxes, or any other taxes includable in gross income for federal income tax purposes. Assuming compliance with certain covenants described herein, under existing statutes, regulations and decisions, interest on the Bonds will be excludable from gross income for federal income tax purposes. Under existing law, interest on the Bonds for federal income tax purposes is not includable in alternative minimum taxable income of individuals as an enumerated item of tax preference or other specific adjustment; and interest on the Bonds will be includable in the applicable tax base for the purpose of determining the branch profits tax imposed on certain foreign corporations engaged in a trade or business in the United States of America. See "Tax Matters."*

## \$200,235,000 General Obligation Bonds



RATINGS: (See the section "RATINGS")  
Fitch.....AAA  
Moody's.....Aaa  
S & P.....AAA

### \$133,630,000 Consolidated Public Improvement Project and Refunding Bonds, 2019 Series A \$66,605,000 Metropolitan District Project and Refunding Bonds, 2019 Series B

**Dated:** Date of Delivery

**Due:** August 15, as shown herein

**Payable:** Interest on and principal of the Bonds will be paid by the County to The Depository Trust Company, New York, New York, as securities depository. Disbursement of such payments will be made by DTC to its Participants which in turn will provide for payment to the Beneficial Owners of the Bonds, all as described herein. Beneficial Owners will not receive certificates evidencing their interests in Bonds purchased.

**Redemption:** The Bonds maturing on and after August 15, 2029 are subject to optional redemption on or any time after August 15, 2028 at a redemption price as set forth herein.

**Purpose:** Proceeds of the Bonds are being used to (1) pay or reimburse the County for the cost of certain projects' Public Improvements, (2) repay all or a portion of the County's outstanding general obligation bond anticipation notes, (3) provide funds, together with investment earnings thereon, that will be sufficient to refund certain general obligation bonds as described herein, and (4) pay costs of issuance related to the Bonds.

**Security:** The Bonds are general obligations of the County, and its full faith and credit and unlimited taxing power are irrevocably pledged to the punctual payment of principal of and interest on the Bonds when due.

**Denomination:** Integral multiples of \$5,000

**Interest Payable:** August 15 and February 15

**First Interest Payment Due:** August 15, 2019

---

### FOR MATURITY SCHEDULES SEE INSIDE COVER

This cover page contains information for quick reference only. It is not a summary of the Bonds. Investors must read the entire Official Statement to obtain information essential to making an informed investment decision.

The Bonds are offered for delivery when, as and if issued, subject to the approving opinions of McKennon Shelton & Henn LLP, Baltimore, Maryland, Bond Counsel. Davenport & Company, Towson, Maryland, served as financial advisor to the County in connection with the issuance of the Bonds. The Bonds in definitive form will be available for delivery through the facilities of DTC on or about May 29, 2019.

# Maturity Schedules

## \$133,630,000 Consolidated Public Improvement Project and Refunding Bonds, 2019 Series A

Due Aug. 15	Principal Amount	CUSIP**	Interest Rate	Yield	Due Aug. 15	Principal Amount	CUSIP**	Interest Rate	Yield
2019	\$4,670,000	44256PTJ2	5.000 %	1.400 %	2029	\$5,655,000	44256PTU7	5.000 %	1.740 % *
2020	15,215,000	44256PTK9	5.000	1.470	2030	5,910,000	44256PTV5	4.000	1.900 *
2021	9,235,000	44256PTL7	5.000	1.500	2031	6,155,000	44256PTW3	4.000	2.000 *
2022	9,515,000	44256PTM5	5.000	1.510	2032	6,370,000	44256PTX1	3.000	2.540 *
2023	4,185,000	44256PTN3	5.000	1.530	2033	6,565,000	44256PTY9	3.000	2.620 *
2024	4,400,000	44256PTP8	5.000	1.540	2034	6,760,000	44256PTZ6	2.750	2.790
2025	4,630,000	44256PTQ6	5.000	1.570	2035	6,945,000	44256PUA9	2.750	2.860
2026	4,865,000	44256PTR4	5.000	1.590	2036	7,145,000	44256PUB7	2.875	2.920
2027	5,115,000	44256PTS2	5.000	1.630	2037	7,350,000	44256PUC5	2.875	2.970
2028	5,375,000	44256PTT0	5.000	1.670	2038	7,570,000	44256PUD3	3.000	3.020

## \$66,605,000 Metropolitan District Project and Refunding Bonds, 2019 Series B

Due Aug. 15	Principal Amount	CUSIP**	Interest Rate	Yield	Due Aug. 15	Principal Amount	CUSIP**	Interest Rate	Yield
2019	\$1,655,000	44256PUE1	5.000 %	1.500 %	2034	\$2,060,000	44256PUV3	3.000 %	2.500 % *
2020	1,085,000	44256PUF8	5.000	1.500	2035	2,125,000	44256PUW1	3.000	2.600 *
2021	1,315,000	44256PUG6	5.000	1.500	2036	2,190,000	44256PUX9	3.000	2.700 *
2022	1,555,000	44256PUH4	5.000	1.520	2037	2,255,000	44256PUY7	3.000	2.800 *
2023	1,640,000	44256PUJ0	5.000	1.540	2038	2,325,000	44256PUZ4	3.000	2.850 *
2024	1,950,000	44256PUK7	5.000	1.560	2039	2,395,000	44256PVA8	3.000	2.900 *
2025	2,050,000	44256PUL5	5.000	1.570	2040	2,470,000	44256PVB6	3.000	2.950 *
2026	2,155,000	44256PUM3	5.000	1.590	2041	2,545,000	44256PVC4	3.000	3.000
2027	2,275,000	44256PUN1	5.000	1.630	2042	2,620,000	44256PVD2	3.000	3.020
2028	2,385,000	44256PUP6	5.000	1.680	2043	2,700,000	44256PVE0	3.000	3.040
2029	2,215,000	44256PUQ4	5.000	1.760 *	2044	2,785,000	44256PVF7	3.000	3.050
2030	2,070,000	44256PUR2	4.000	2.000 *	2045	2,865,000	44256PVG5	3.000	3.060
2031	1,855,000	44256PUS0	4.000	2.070 *	2046	2,955,000	44256PVH3	3.000	3.070
2032	1,930,000	44256PUT8	4.000	2.140 *	2047	3,045,000	44256PVJ9	3.000	3.080
2033	2,000,000	44256PUU5	3.000	2.400 *	2048	3,135,000	44256PVK6	3.000	3.090

\*Yield to August 15, 2028, the first optional call date.

\*\* CUSIP numbers are copyrighted by the American Bankers Association. CUSIP data is provided by CUSIP Global Services. The CUSIP data listed above are being provided solely for the convenience of Bondholders only at the time of issuance of the Bonds and the County makes no representation with respect to such CUSIP data nor undertakes any responsibility for its accuracy now or at any time in the future. The CUSIP numbers are subject to being changed after the issuance of the Bonds as a result of various subsequent actions including, but not limited to, a refunding in whole or in part of the Bonds. This information is not intended to create a database and does not serve in any way as a substitute for the CUSIP Global Services database.

**Howard County, Maryland**

3430 Court House Drive  
Ellicott City, Maryland 21043  
Telephone (410) 313-2195  
Fax (410) 313-4433  
[www.howardcountymd.gov](http://www.howardcountymd.gov)

**County Executive**

Calvin Ball

**County Council**

Christiana Mercer Rigby, *Chairperson*  
Opel Jones, *Vice Chairperson*  
Deb Jung, *Council Member*  
Liz Walsh, *Council Member*  
David Yungmann, *Council Member*

**Certain Appointed Officials**

Janet R. Irvin, *Director of Finance*  
Gary Kuc, *County Solicitor*  
Lonnie R. Robbins, *Chief Administrative Officer*  
Jessica Feldmark, *Administrator to the County Council*  
Dr. Holly Sun, *Budget Administrator*

**Financial Advisor**

Davenport & Company  
8600 LaSalle Road, Suite 618  
Towson, MD 21286  
Telephone (410) 296-9426  
Fax (866)932-6660  
[www.investdavenport.com](http://www.investdavenport.com)

**Bond Counsel**

McKennon Shelton & Henn LLP  
401 East Pratt Street, Suite 2600  
Baltimore, Maryland 21202  
Telephone (410) 843-3500  
Fax (410) 843-3501  
[www.mshllp.com](http://www.mshllp.com)

**Independent Auditor**

CliftonLarsonAllen LLP  
1966 Greenspring Drive, Suite 300  
Timonium, Maryland 21093  
Telephone (410) 453-0900  
Fax (410) 453-0914  
[www.claconnect.com](http://www.claconnect.com)

**Escrow Agent**

Manufacturers and Traders Trust Co.  
25 S. Charles Street  
Baltimore, Maryland 21201  
Telephone (410) 244-3712  
Fax (410) 244-3725  
[www.mtb.com](http://www.mtb.com)

**Verification Agent**

Bingham Arbitrage Rebate Services, Inc.  
1506 West Main Street  
Richmond, VA 23220  
Telephone (804) 864-9567  
Fax (804) 288-5020  
[www.bingham-ars.com](http://www.bingham-ars.com)

No dealer, broker, salesman or other person has been authorized by Howard County, Maryland to give any information or to make any representations with respect to Howard County, Maryland, or the Bonds, other than those contained in this Official Statement. If given or made, such other information or representations must not be relied upon as having been authorized by any of the foregoing. This Official Statement does not constitute an offer to sell or the solicitation of any offer to buy, nor shall there be any sale of, the Bonds described herein by any person in any jurisdiction in which it is unlawful for such person to make such offer, solicitation or sale.

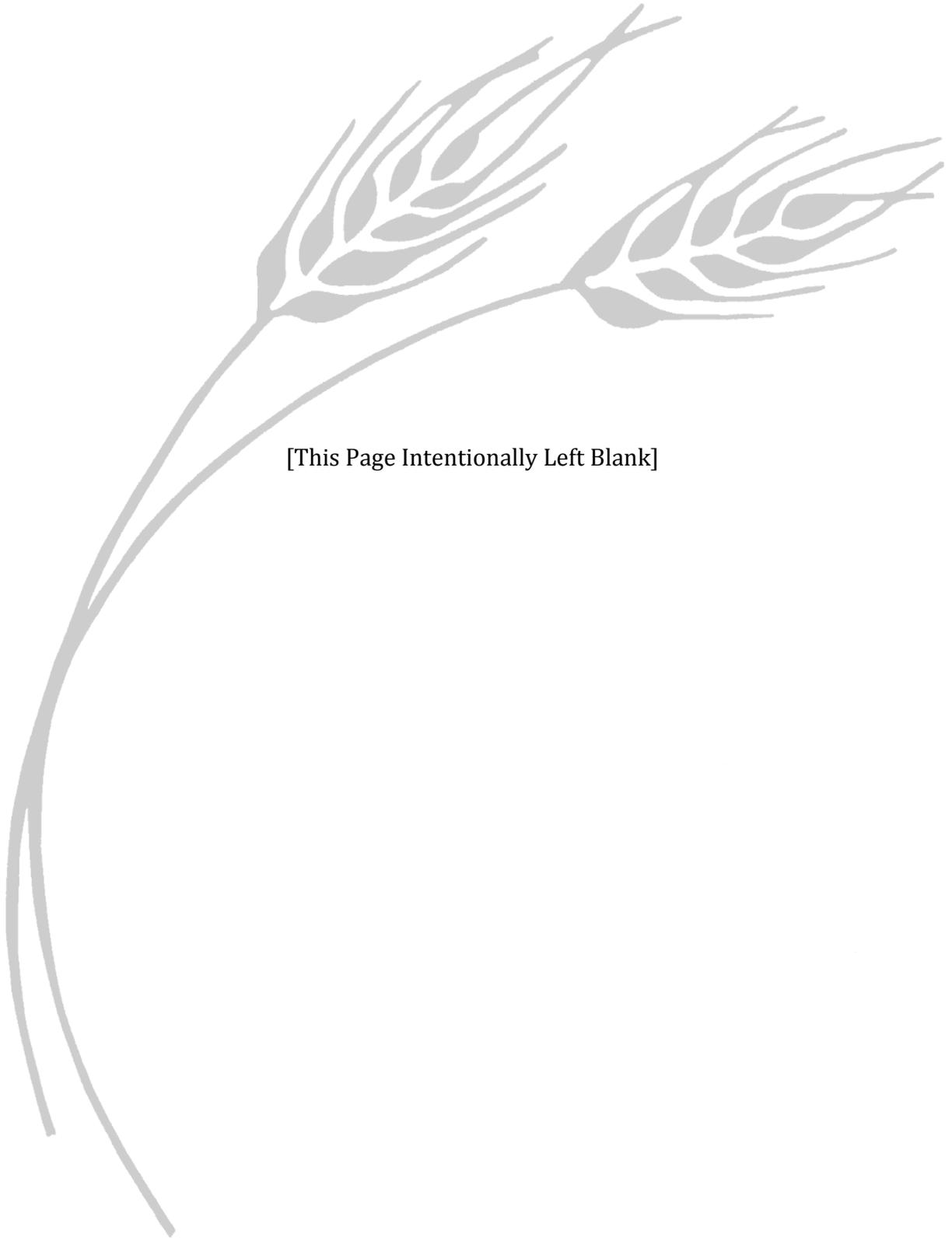
All quotations from and summaries and explanations of provisions of laws and documents herein do not purport to be complete and reference is made to such laws and documents for full and complete statements of their provisions. The County believes that the information contained in this Official Statement is complete and accurate and that information obtained from other sources is reliable. However, the County does not guarantee the accuracy or completeness of information obtained from other sources and such information should not be considered to be a representation of the County. Any statements made in this Official Statement involving estimates or matters of opinion, whether or not expressly so stated, are intended merely as estimates or opinion and not as representations of fact. The information and expressions of opinion contained herein are subject to change without notice. Neither the delivery of this Official Statement nor any sale of the Bonds shall under any circumstances create any implication that there has been no change in the affairs of Howard County, Maryland since the respective dates as of which such information is given herein. This Official Statement is not to be construed as a contract or agreement between Howard County, Maryland and the purchasers or holders of any of the Bonds. Furthermore, this Official Statement does not contain any investment advice for purchasers or holders of any of the Bonds. Such persons should consult their own financial advisors regarding possible financial consequences of ownership of the Bonds.

The cover page hereof, the list of officials, this page and the appendices attached hereto are part of this Official Statement. The order and placement of materials in this Official Statement, including the appendices, are not to be deemed a determination of relevance, materiality or importance, and this Official Statement, including the appendices, must be considered in its entirety. The captions and headings in this Official Statement are for convenience only and in no way define, limit or describe the scope or intent, or affect the meaning or construction, of any provisions or sections of this Official Statement. The offering of the Bonds is made only by means of this entire Official Statement.

In connection with the offering of the Bonds, the purchasers of the Bonds may over-allot or effect transactions that stabilize or maintain the market price of the Bonds at levels above that which might otherwise prevail in the open market. Such stabilizing, if commenced, may be discontinued at any time.

CUSIP is a registered trademark of the American Bankers Association. CUSIP data herein are provided by CUSIP Global Services, which is managed by S&P Capital IQ, a division of McGraw Hill Financial, and the County takes no responsibility for the accuracy thereof. These data are not intended to create a database and do not serve in any way as a substitute for CUSIP Global Services.

No registration statement relating to the Bonds has been filed with the United States Securities and Exchange Commission (the "SEC") or with any state security agency. The Bonds have not been approved or disapproved by the SEC or any state securities agency nor has the SEC or any state securities agency passed upon the accuracy or adequacy of this Official Statement. Any representation to the contrary may be a criminal offense.



[This Page Intentionally Left Blank]

# Table of Contents

## The Bonds

<u>Purpose of Official Statement</u>	<u>1</u>
<u>The County</u>	<u>1</u>
<u>Authorization</u>	<u>1</u>
<u>Description</u>	<u>1</u>
<u>Registration, Payment and Transfer</u>	<u>2</u>
<u>Redemption</u>	<u>4</u>
<u>Security and Sources of Payment</u>	<u>4</u>
<u>Purpose of Financing</u>	<u>5</u>
<u>Continuing Disclosure</u>	<u>6</u>
<u>Deposits to Escrow Deposit Account</u>	<u>6</u>
<u>Additional Information</u>	<u>7</u>

## Financial Information

<u>Financial Reporting</u>	<u>8</u>
<u>Overview of Revenues and Expenditures</u>	<u>10</u>
<u>Sources of Revenue</u>	<u>15</u>
<u>Local Income, Transfer and Other County Taxes</u>	<u>18</u>
<u>Water and Sewer Enterprise Fund</u>	<u>21</u>
<u>Special Recreation Facility Enterprise Fund</u>	<u>23</u>
<u>Broadband Enterprise Fund</u>	<u>24</u>
<u>Watershed Protection and Restoration Enterprise Fund</u>	<u>25</u>
<u>Retirement and Pension Programs</u>	<u>25</u>
<u>Other Post Employment Benefits</u>	<u>27</u>
<u>Accounting for Annual and Disability Leave</u>	<u>29</u>
<u>Insurance and Risk Management</u>	<u>29</u>
<u>Investment Policy</u>	<u>30</u>

## Capital Requirements and Debt Management

<u>Capital Projects Fund</u>	<u>31</u>
<u>Board of Education Capital Projects</u>	<u>32</u>
<u>Composition of Debt</u>	<u>32</u>
<u>Capital Budget and Program</u>	<u>33</u>
<u>Debt Management Policy</u>	<u>33</u>
<u>Debt Capacity</u>	<u>33</u>
<u>Description of Debt</u>	<u>34</u>
<u>Overlapping Debt</u>	<u>35</u>
<u>Tax Incremental Financing</u>	<u>36</u>
<u>Conduit Debt</u>	<u>36</u>
<u>Public Private Partnership (P3) Agreement</u>	<u>37</u>
<u>Outstanding Long-Term Debt</u>	<u>38</u>
<u>Future Financing Plans</u>	<u>43</u>

## Government and Infrastructure

<u>General</u>	<u>45</u>
<u>Government Organizational Chart</u>	<u>46</u>
<u>Executive, Administrative,</u>	
<u>Legislative and Education Officials</u>	<u>47</u>
<u>Responsibilities and Services</u>	<u>51</u>

## Economy and Demography

<u>Size and Land Use</u>	<u>58</u>
<u>Population</u>	<u>58</u>
<u>Education</u>	<u>59</u>
<u>Income</u>	<u>60</u>
<u>Housing</u>	<u>62</u>
<u>Economy</u>	<u>63</u>
<u>Columbia</u>	<u>66</u>

## Legal and Miscellaneous

<u>Approval of Legal Proceedings</u>	<u>67</u>
<u>Tax Matters</u>	<u>67</u>
<u>Ratings</u>	<u>70</u>
<u>Litigation</u>	<u>70</u>
<u>Independent Auditors</u>	<u>70</u>
<u>Financial Advisor</u>	<u>70</u>
<u>Sale at Public Bidding</u>	<u>70</u>
<u>Verification of Mathematical Computations</u>	<u>71</u>
<u>Certificate of County Officials</u>	<u>71</u>
<u>Miscellaneous</u>	<u>71</u>

## Appendix A

<u>Form of Bond Counsel Opinions</u>	<u>A-1</u>
--------------------------------------	------------

## Appendix B

<u>Continuing Disclosure Agreement</u>	<u>B-1</u>
--	------------

## Appendix C

<u>Bond Amortization Tables</u>	<u>C-1</u>
---------------------------------	------------

# Howard County Regional Location



# The Bonds

## Purpose of Official Statement

This Official Statement provides information regarding Howard County, Maryland (the “County”) and the offering of \$200,235,000 general obligation bonds (the “Bonds”). The Bonds consist of the following:

- \$133,630,000 Consolidated Public Improvement Project and Refunding Bonds, 2019 Series A (the “Public Improvement Bonds”); and
- \$66,605,000 Metropolitan District Project and Refunding Bonds, 2019 Series B (the “Metropolitan District Bonds”).

## The County

Howard County, Maryland is 251 square miles in area and is home to approximately 321,000 residents. The County is located in the State of Maryland (the “State”) between Baltimore, Maryland and Washington, D.C., and at its closest point is less than four miles from the former and 13 miles from the latter. The County was formed in 1851 and bears the name of Colonel John Eager Howard, the fifth Governor of Maryland. The County was predominately agricultural until 1966, when construction began on the master-planned community of Columbia. The County’s population has grown an average of 1.74 percent annually since 2000, and is the third wealthiest in the nation. Under a home rule charter since 1968, the County is governed by an elected county executive (the “County Executive”) and five-member council (the “Council”).

## Authorization

The Public Improvement Bonds are being issued pursuant to the authority of Section 10-203 of the Local Government Article of the Annotated Code of Maryland (2013 Replacement Volume and 2018 Supplement) (“Section 10-203”), Section 19-207 of the Local Government Article of the Annotated Code of Maryland (2013 Replacement Volume and 2018 Supplement) (“Section 19-207”), Section 19-101 of the Local Government Article of the Annotated Code of Maryland (2013 Replacement Volume and 2018 Supplement) (“Section 19-101”), the Howard County Charter (the “Charter”), certain bond enabling bills of the County Council of Howard County, Maryland (the “Council”), and in accordance with Council Bill No. 02-2019 enacted during the 2019 Legislative Session (the “Bond Ordinance”) and Council Bill No. 62-2016 enacted during the 2016 Legislative Session (the “Refunding Ordinance”).

The Metropolitan District Bonds are being issued pursuant to the authority of Section 10-203, Section 19-207, the Charter, Chapter 991 of the Acts of the General Assembly of Maryland 1943, as amended, Chapter 609 of the Acts of the General Assembly of Maryland of 1945, as amended, Chapter 369 of the Acts of the General Assembly of Maryland of 1963, as amended and Chapter 356 of the Acts of the General Assembly of Maryland of 1965, as amended, certain bond enabling bills of the Council, and in accordance with the Bond Ordinance and the Refunding Ordinance.

## Description

The Bonds are dated and bear interest from their date of delivery (the “Closing Date”), and pay interest on February 15 and August 15 of each year, beginning August 15, 2019, at the interest rates set forth on the inside cover page of this Official Statement. Interest is calculated on the basis of a 360-day year consisting of twelve 30-day months. The Bonds are issued as fully-registered bonds without coupons, book-entry form only, and are denominated in integral multiples of \$5,000. The Bonds mature, subject to prior redemption as described herein, on the dates and in the amounts set forth on the inside cover page of this Official Statement.

## Registration, Payment and Transfer

### Registration through Securities Depository

*The information contained in the following paragraphs of this subsection "Book-Entry Only System" has been extracted from a schedule prepared by The Depository Trust Company ("DTC") entitled "SAMPLE OFFERING DOCUMENT LANGUAGE DESCRIBING BOOK-ENTRY ONLY ISSUANCE." The County makes no representation as to the completeness or the accuracy of such information or as to the absence of material adverse changes in such information subsequent to the date hereof.*

DTC will act as securities depository for the Bonds. The Bonds will be issued as fully-registered securities registered in the name of Cede & Co. (DTC's partnership nominee) or such other name as may be requested by an authorized representative of DTC. One fully-registered Bond will be issued for each maturity of the Bonds in principal amount equal to the aggregate principal amount of the Bonds of such maturity, and will be deposited with DTC.

DTC, the world's largest securities depository, is a limited-purpose trust company organized under the New York Banking Law, a "banking organization" within the meaning of the New York Banking Law, a member of the Federal Reserve System, a "clearing corporation" within the meaning of the New York Uniform Commercial Code, and a "clearing agency" registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934. DTC holds and provides asset servicing for over 3.5 million issues of U.S. and non-U.S. equity issues, corporate and municipal debt issues, and money market instruments (from over 100 countries) that DTC's participants ("Direct Participants") deposit with DTC. DTC also facilitates the post-trade settlement among Direct Participants of sales and other securities transactions in deposited securities, through electronic computerized book-entry transfers and pledges between Direct Participants' accounts. This eliminates the need for physical movement of securities certificates. Direct Participants include both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, clearing corporations, and certain other organizations. DTC is a wholly-owned subsidiary of The Depository Trust & Clearing Corporation ("DTCC"). DTCC is the holding company for DTC, National Securities Clearing Corporation and Fixed Income Clearing Corporation, all of which are registered clearing agencies. DTCC is owned by the users of its regulated subsidiaries. Access to the DTC system is also available to others such as both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, and clearing corporations that clear through or maintain a custodial relationship with a Direct Participant, either directly or indirectly ("Indirect Participants"). DTC has a Standard & Poor's rating of AA+. The DTC Rules applicable to its Participants are on file with the Securities and Exchange Commission. More information about DTC can be found at [www.dtcc.com](http://www.dtcc.com).

Purchases of Bonds under the DTC system must be made by or through Direct Participants, which will receive a credit for the Bonds on DTC's records. The ownership interest of each actual purchaser of each Bond ("Beneficial Owner") is in turn to be recorded on the Direct and Indirect Participants' records. Beneficial Owners will not receive written confirmation from DTC of their purchase. Beneficial Owners are, however, expected to receive written confirmations providing details of the transaction, as well as periodic statements of their holdings, from the Direct or Indirect Participant through which the Beneficial Owner entered into the transaction. Transfers of ownership interests in the Bonds are to be accomplished by entries made on the books of Direct and Indirect Participants acting on behalf of Beneficial Owners. Beneficial Owners will not receive certificates representing their ownership interests in the Bonds, except in the event that use of the book-entry system for the Bonds is discontinued.

To facilitate subsequent transfers, all Bonds deposited by Direct Participants with DTC are registered in the name of DTC's partnership nominee, Cede & Co., or such other name as may be requested by an authorized representative of DTC. The deposit of Bonds with DTC and their registration in the name of Cede & Co. or such other DTC nominee do not affect any change in beneficial ownership. DTC has no knowledge of the actual Beneficial Owners of the Bonds; DTC's records reflect only the identity of the Direct Participants to whose accounts such Bonds are credited, which may or may not be the Beneficial Owners. The Direct and Indirect Participants will remain responsible for keeping account of their holdings on behalf of their customers.

Conveyance of notices and other communications by DTC to Direct Participants, by Direct Participants to Indirect Participants, and by Direct Participants and Indirect Participants to Beneficial Owners will be governed by arrangements among them, subject to any statutory or regulatory requirements as may be in effect from time to time.

Redemption notices shall be sent to DTC. If less than all of the Bonds within an issue are being redeemed, DTC's practice is to determine by lot the amount of the interest of each Direct Participant in such issue to be redeemed. Neither DTC nor Cede & Co. (nor any other DTC nominee) will consent or vote with respect to the Bonds unless authorized by a Direct Participant in accordance with DTC's MMI Procedures. Under its usual procedures, DTC mails

an Omnibus Proxy to the County as soon as possible after the record date. The Omnibus Proxy assigns Cede & Co.'s consenting or voting rights to those Direct Participants to whose accounts Bonds are credited on the record date (identified in a listing attached to the Omnibus Proxy).

Principal and interest payments and any premium on the Bonds will be made to Cede & Co., or such other nominee as may be requested by an authorized representative of DTC. DTC's practice is to credit Direct Participants' accounts upon DTC's receipt of funds and corresponding detail information from the County or the Paying Agent, on payable date in accordance with their respective holdings shown on DTC's records. Payments by Direct and Indirect Participants to Beneficial Owners will be governed by standing instructions and customary practices, as is the case with securities held for the accounts of customers in bearer form or registered in "street name," and will be the responsibility of such Direct or Indirect Participant and not of DTC, DTC's nominee, the Paying Agent or the County, subject to any statutory or regulatory requirements as may be in effect from time to time. Payment of principal and interest or premium to Cede & Co. (or such other nominee as may be requested by an authorized representative of DTC) is the responsibility of the County or its Paying Agent, disbursement of such payments to Direct Participants shall be the responsibility of DTC, and disbursement of such payments to the Beneficial Owners shall be the responsibility of Direct and Indirect Participants.

THE COUNTY CANNOT AND DOES NOT GIVE ANY ASSURANCES THAT DTC, DIRECT PARTICIPANTS OR INDIRECT PARTICIPANTS OF DTC WILL DISTRIBUTE TO BENEFICIAL OWNERS OF THE BONDS (1) PAYMENTS OF PRINCIPAL OF OR INTEREST OR REDEMPTION PREMIUM ON THE BONDS; (2) CONFIRMATIONS OF THEIR OWNERSHIP INTERESTS IN THE BONDS; OR (3) OTHER NOTICIES SENT TO DTC OR CEDE & CO., ITS PARTNERSHIP NOMINEE, AS THE REGISTERED OWNER OF THE BONDS OR THAT THEY WILL DO SO ON A TIMELY BASIS, OR THAT DTC, DIRECT PARTICIPANTS OR INDIRECT PARTICIPANTS WILL SERVE AND ACT IN THE MANNER DESCRIBED IN THIS OFFICIAL STATEMENT OR ANY RULES AND PROCEDURES OF DTC.

**Neither the County nor its agents will have any responsibility or obligation to Direct or Indirect Participants or to any Beneficial Owner with respect to 1) the accuracy of any records maintained by DTC or any Direct or Indirect Participant; 2) the payment by DTC or any Direct or Indirect Participant of any amount with respect to the principal of, premium, if any, or interest on the bonds; 3) any notice which is permitted or required to be given to Beneficial Owners; 4) any consent given by DTC or other action taken by DTC as bondholder; or 5) the selection by DTC or any Direct or Indirect Participant of any Beneficial Owner to receive payment in the event of a partial redemption of Bonds.**

### **Termination of Book-Entry System**

DTC may discontinue providing its services with respect to the Bonds at any time by giving reasonable notice to the County or the Director of Finance of the County (the "Director of Finance"), or his successor as registrar for the Bonds (the "Bond Registrar"). In addition, the County Executive may discontinue the book-entry system with DTC. If the County Executive fails to identify another qualified securities depository to replace DTC, the County will deliver replacement Bonds in the form of fully registered certificates, and payments of principal of and interest on such replacement Bonds will be paid in accordance with the terms of the Bond Ordinance. Each Beneficial Owner, upon registration of certificates held in such Beneficial Owner's name, will become a Bondholder. Subject to the further conditions contained in the Bond Ordinance, the Bonds may be transferred or exchanged for one or more Bonds in different authorized denominations upon surrender thereof by the registered owners or their duly authorized representatives. For every transfer and exchange of the Bonds, the registered owner may be charged a sum sufficient to cover any tax or other governmental charge required to be paid in connection with such exchange or transfer.

### **Record Dates**

The record dates for the Bonds will be the fifteenth day preceding each interest payment date for the Bonds and the fifteenth day preceding the date of publication of any notice of redemption.

## **Redemption**

### **Optional Redemption**

Bonds maturing on or before August 15, 2028 are not redeemable prior to their stated maturities. Bonds maturing on and after August 15, 2029 are subject to redemption prior to their respective maturities, at the option of the County, on or at any time after August 15, 2028, in whole or in part, at a redemption price of 100 percent of the principal amount thereof, together with interest accrued to the redemption date.

If less than all of the outstanding Bonds of any series are called for optional redemption, the County will choose the maturities to be redeemed and the principal amount of each such maturity to be redeemed, in its sole discretion. If less than all of such Bonds of any one maturity are called for redemption, then the particular Bonds of such maturity or portions of such Bonds to be redeemed will be chosen by DTC in accordance with its normal and customary procedures (so long as the Bonds are in book-entry form), or by the Bond Registrar, by lot (if the book-entry system has been discontinued). For an optional redemption of term Bonds, the County will choose the mandatory sinking fund redemption installments of such term Bonds to be reduced and the amount of each such reduction, in its sole discretion. The Bonds are redeemable only in integral multiples of \$5,000.

### **Notice of Redemption**

A notice calling for redemption of any Bonds will be delivered to DTC not less than 20 days prior to the date fixed for redemption (the "Redemption Date"), and otherwise as provided in the Bond Ordinance. If the book-entry system has been discontinued for the Bonds, a notice calling for redemption of any Bonds will be mailed, not less than 20 days prior to the Redemption Date, to all registered owners of the Bonds to be redeemed (in whole or in part), at their last addresses appearing on the registration books kept by the Bond Registrar, by first-class mail, postage prepaid. Failure to mail or deliver any such notice or any defect in the notice or its mailing or delivery will not affect the validity of any redemption proceedings. Any redemption notice will specify the series, CUSIP numbers, maturities and interest rates of any Bonds to be redeemed, the date of the notice, the Redemption Date, the redemption price, the name, address and telephone number of the Bond Registrar, and, for a partial redemption, the principal amount of each maturity of the Bonds to be redeemed. Such notice will further state that, on the Redemption Date, the Bonds called for redemption will be due and become payable, if sufficient funds are available, at the office of the Bond Registrar, and that, from and after the Redemption Date, interest thereon shall cease to accrue.

On the Redemption Date, if sufficient money to pay the redemption price of Bonds called for redemption and accrued interest on the Bonds are held by the Bond Registrar, such Bonds called for redemption will become due and payable, interest on such Bonds will cease to accrue and the registered owners of such Bonds will have no rights in respect thereof except to receive payment of the redemption price thereof, plus accrued interest thereon to the Redemption Date.

## **Security and Sources of Payment**

### **General Obligation**

The Bonds are general obligations of the County, and its full faith and credit and unlimited taxing power are irrevocably pledged to the punctual payment of principal and interest on such Bonds when due and payable.

### **Public Improvement Bonds**

In each and every fiscal year during which any of the Public Improvement Bonds are outstanding, the County will levy or cause to be levied ad valorem taxes on real and tangible personal property and on intangible property subject to taxation by the County in an amount sufficient, together with other available funds, to pay the annual interest on the outstanding Public Improvement Bonds and to pay the principal of the Public Improvement Bonds due and payable during the succeeding fiscal year. Without limiting the foregoing, portions of the Public Improvement Bonds are expected to be paid from transfer tax and fire tax revenues, school facilities surcharges, building excise taxes on new construction, broadband fees and environmental service charges.

## Metropolitan District Bonds

The principal of and the interest on the Metropolitan District Bonds are payable from revenues obtained from: (1) special front foot benefit assessments collected by the County on all property in the Metropolitan District (described in more detail under “Government and Infrastructure, Water and Sewer System” herein) directly benefited by water and sewer facilities, (2) special annual ad valorem taxes levied by the County upon assessable property within the Metropolitan District, (3) water and sewer service charges for the use of utilities and charges for the upkeep of water and sewer systems that have a connection with water mains or sewers and (4) water and sewer connection charges. However, in the event such revenues in any fiscal year are insufficient to pay the annual interest on outstanding Metropolitan District Bonds and to pay the principal of the Metropolitan District Bonds due and payable, the County will levy ad valorem taxes on real and tangible personal property and on intangible property subject to taxation by the County in an amount sufficient, together with other available funds, to pay such annual interest and to pay the principal of such Metropolitan District Bonds. The County has never had to levy ad valorem taxes to pay the interest or principal due on Metropolitan District Bonds.

## Purpose of Financing

### Public Improvement Bonds

The County is issuing the Public Improvement Bonds to repay all or a portion of the County’s outstanding Consolidated General Obligation Bond Anticipation Tax-Exempt Note, Series 2017, to reimburse the County for the cost of Public Improvement projects, to pay costs of issuance of the Public Improvement Bonds and to provide funds that, together with investment earnings thereon will be sufficient to refund certain of the County’s outstanding general obligation bonds described below (the “Refunded Public Improvement Bonds”) at their respective maturities or optional redemption dates.

#### Refunded Public Improvement Bonds

<b>Dated Date</b>	<b>Principal Amount Outstanding</b>	<b>Principal Amount Being Refinanced</b>	<b>Maturities Being Refinanced</b>	<b>Redemption Date</b>	<b>Optional Redemption Price (%)</b>
12/8/2009	\$37,545,000	\$23,605,000	8/15/2020 - 8/15/2022	8/15/2019	100

### Metropolitan District Bonds

The County is issuing the Metropolitan District Bonds to repay all or a portion of the County’s outstanding General Obligation Bond Anticipation Tax-Exempt Note, Series 2017, to reimburse the County for the cost of Water and Sewer projects, to pay costs of issuance of the Metropolitan District Bonds and to provide funds that, together with investment earnings thereon will be sufficient to refund certain of the County’s outstanding general obligation bonds described below (the “Refunded Metropolitan District Bonds”) at their respective maturities or optional redemption dates.

#### Refunded Metropolitan District Bonds

<b>Dated Date</b>	<b>Principal Amount Outstanding</b>	<b>Principal Amount Refinanced</b>	<b>Maturities Being Refinanced</b>	<b>Redemption Date</b>	<b>Optional Redemption Price (%)</b>
12/8/2009	\$6,450,000	\$6,115,000	8/15/2021 - 8/15/2030	8/15/2019	100

## Sources and Uses

The following table identifies the sources and uses of funds in this financing.

Sources	CPI 2019	Metro 2019	Total
	Series A	Series B	
Par Amount.....	\$133,630,000	\$66,605,000	\$ 200,235,000
Premium.....	12,450,627	4,793,769	17,244,397
<b>Total</b>	<b>\$146,080,627</b>	<b>\$71,398,769</b>	<b>\$ 217,479,397</b>
<b>Uses</b>			
Project Fund Deposit.....	\$121,679,828	\$64,487,822	\$186,167,650
Escrow Fund Deposit.....	24,024,558	6,193,901	30,218,459
Issuance Costs*.....	376,241	717,046	1,093,287
<b>Total</b>	<b>\$146,080,627</b>	<b>\$71,398,769</b>	<b>\$ 217,479,397</b>

\*Issuance costs include Rating Agency Fees, Underwriter's Discount, Financial Advisor Fees, Bond Counsel Fees, and other costs of issuance. Table may not add due to rounding.

## Continuing Disclosure

In order to enable the bidders for the Bonds to comply with the requirements of paragraph (b)(5) of Securities and Exchange Commission Rule 15c2-12 ("Rule 15c2-12"), the County will execute and deliver, on or before the date of issuance and delivery of the Bonds, a Continuing Disclosure Agreement (the "Continuing Disclosure Agreement"). The form of this agreement is included in Appendix C of this Official Statement. Certain of the events listed in Section 4(a) of the Continuing Disclosure Agreement have been included for purposes of compliance with Rule 15c2-12 but are not relevant for the Bonds. Those events relate to debt service reserves, credit enhancements and liquidity providers, and property or other collateral. During the last five years, the County has not failed to comply in any material respect with the terms and provisions of previous continuing disclosure agreements entered into in order to comply with the requirements of Rule 15c2-12.

## Deposits to Escrow Deposit Account

On the Closing Date, a portion of the proceeds of the Bonds will be deposited by the Director of Finance with Manufacturers and Traders Trust Co. (the "Escrow Deposit Agent") in a single trust fund (the "Escrow Deposit Account") to be established under an Escrow Deposit Agreement to be entered into between the County and the Escrow Deposit Agent (the "Escrow Deposit Agreement"). The Escrow Deposit Agent will apply all or part of the funds so deposited in the Escrow Deposit Account to purchase United States Treasury obligations or obligations guaranteed by United States of America (hereinafter referred to as the "Government Obligations").

The Government Obligations on deposit in the Escrow Deposit Account will mature in stated fixed amounts as to principal and interest at such times as will, together with cash on hand, be sufficient, without reinvestment to redeem the Refunded Bonds on their respective optional redemption dates at the redemption prices set forth in the tables captioned "Refunded Public Improvement Bonds" and "Refunded Metropolitan District Bonds" under "Purpose of Financing" herein. Also see "Verification of Mathematical Computations" herein. The Government Obligations and cash, if any, on deposit in the Escrow Deposit Account will be used for the payment of the principal of and interest on the Refunded Bonds, and are not available for the payment of the principal of, redemption premium, if any, or interest on the Bonds or any other obligations of the County.

## **Additional Information**

This Official Statement speaks only as of the date appearing on the cover page, and the information contained herein is subject to change. Questions regarding this Official Statement should be directed to the Director of Finance at the address and telephone number listed on the inside of the cover page. The full text of the Bond Ordinance, the Refunding Ordinance and the County's latest comprehensive annual financial report and budget are available from the Director of Finance for the cost of reproducing such material or at [www.howardcountymd.gov](http://www.howardcountymd.gov) or on the MSRB's EMMA website.

# Financial Information

## Financial Reporting

### Basis of Accounting

The County's audited basic financial statements for the fiscal year ended June 30, 2018 can be found at <http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits> in the Financial Information section of the Department of Finance webpage. These statements were audited by CliftonLarsonAllen LLP, independent certified public accountants, to the extent stated in their report. The accounting and financial reporting policies of the County conform to generally accepted accounting principles ("GAAP") as applicable to governmental units.

The County's accounts are organized on the basis of funds. Fund types include (1) the General Fund, which is the general operating fund of the County, (2) Special Revenue Funds, which account for specific revenues that by law are designated for particular activities, (3) Proprietary Funds, which include the enterprise funds that account for the County's water and sewer, broadband, storm water and golf course operations, and (4) Capital Projects Funds, which account for construction or acquisition of fixed assets, (5) Debt Service Funds, which account for the accumulation of resources which have been restricted, committed or assigned, (6) Internal Service Funds used to account for goods and services furnished by one County department to another, and (7) Trust and Agency Funds used to account for resources held in a custodial capacity.

The financial data for the Board of Education of Howard County (the "Board of Education"), the Howard County Library System (the "Library"), Howard Community College (the "Community College") and the Howard County Housing Commission (the "Housing Commission," and collectively, the "Component Units") are discretely presented in the government-wide statements to emphasize their legal separation from the County. However, the County is responsible for levying taxes and has budgetary control over the Component Units.

The County's comprehensive annual financial report ("CAFR") for the fiscal year ended June 30, 2017 was awarded the Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association of the United States and Canada ("GFOA"). To receive this highest recognition from GFOA, a government unit's CAFR must be easily readable, efficiently organized and satisfy both GAAP and legal requirements. The County has received this certificate for each fiscal year since 1976 and will submit its CAFR for the fiscal year ended June 30, 2018 to GFOA for another certificate.

### Budget

The County's budget includes an operating and a capital budget. The operating budget is derived from programs detailing the nature, volume and cost of work to be performed by each of the County's agencies. This element of the budget includes revenues estimated to be received and expenditures authorized for the ensuing fiscal year, surpluses or deficits estimated for the current fiscal year. The operating and capital budgets also project summaries of revenues and expenditures for the ensuing five fiscal years.

The capital budget describes each capital project proposed in the ensuing fiscal year and receipts anticipated from all borrowings and other sources for such projects. The capital budget also proposes capital projects to be undertaken in the ensuing five fiscal years and the means of financing such projects. (See "Capital Requirements and Debt Management, Capital Budget and Program" herein.)

The County's budget for the fiscal year ended June 30, 2018 was awarded the Distinguished Budget Presentation Award by GFOA. To receive this award, a government unit must publish a budget document that meets program criteria as a policy document, operations guide, financial plan and communication device. The County has received this certificate for each fiscal year since 1992.

The County Executive must submit a capital budget and an operating budget to the Council by April 1 and April 21, respectively. The Council may decrease or delete any budgetary item, except those mandated by State law and

provisions to pay outstanding debt service or eliminate cash deficits. The Council has no power to alter revenue estimates or increase any recommended expenditures, except as expressly provided in State law. After enacting the operating budget and adopting the capital budget, the Council must then levy taxes required to balance budget revenues and expenditures. If a new operating budget is not enacted by the Council before June 2 in any fiscal year, the operating budget proposed by the County Executive stands adopted and funds for expenditures stand appropriated.

No agency of the County may incur any liability in excess of the amounts appropriated for the same general classification of expenditure in the budget. Any such liability incurred, except for small purchases, must first have funds for the designated purpose certified as available by the Director of Finance. The Council, upon the request of the County Executive, may approve transfers between projects in the capital budget and supplemental operating budgets funded from the contingency reserve and from unappropriated funds in emergencies. After April 1 of each year, the Council, upon the request of the County Executive, may approve transfers between departments in the operating budget; the County Executive has authority to make operating budget transfers within a department at any time without approval of the Council.

Surplus revenues in any fiscal year must be appropriated into the budget stabilization account, also known as the Rainy Day Fund, until its balance equals seven percent of the audited General Fund expenditures for the prior fiscal year. Money in the fund may be used only for emergencies or to cover significant revenue shortfalls during a fiscal year that the County Executive determines cannot be offset by reducing expenditures. Surplus revenues not required for the Rainy Day Fund must be used to fund capital projects, reduce existing County debt or fund appropriations for non-recurring expenses, unless otherwise determined by a vote of two-thirds of the members of the Council.

To finance capital projects from borrowing, the Council adopts a bond issue authorization ordinance pursuant to enabling laws. Such ordinances are not subject to referendum, nor to executive veto. Any contract, lease or other obligation providing for payment of funds after the end of the fiscal year in which such obligation is made must be approved by ordinance. No contract for the purchase of real or leasehold property may be entered into unless funds therefor are included in the capital budget. No obligations of the County may be authorized in any fiscal year for any capital project not included in the capital budget.

### Government-Wide Full Accrual Reporting

The positive total net position shown below as of June 30, 2018, reflects the County’s commitment to maintaining infrastructure assets and its tradition of providing substantial pay-go funding for capital outlays.

Summary of Net Position

	Governmental Activities	Business-type Activities	Total
<b>NET POSITION</b>			
Invested in capital assets, net of related debt	\$826,399,982	\$419,010,628	\$1,245,410,610
Restricted	153,326,501	24,709,724	178,036,225
Unrestricted	(1,003,960,300)	151,054,737	(852,905,563)
<b>Total net position</b>	<b>(\$24,233,817)</b>	<b>\$594,775,089</b>	<b>\$570,541,272</b>

It is important to note that although counties in the State of Maryland issue debt for the construction of schools, the school buildings are owned by each county’s Public School System. The County also funds projects for Howard Community College and for intersection improvements to State owned roads. As of June 30, 2018, the outstanding debt for public school buildings was \$475.4 million and \$108.8 million for community college buildings. The negative unrestricted net position for governmental activities reflects the imbalance of liabilities, without corresponding assets, as well as the governmental activities’ Net OPEB Liability of \$321.6 million and net pension liability of \$153.5 million. Ownership of school buildings no longer needed for educational purposes reverts to the County. The net value of buildings, improvements and construction in progress owned by the Board of Education was \$1.2 billion and \$263 million for those owned by Howard Community College.

The schedule below shows the value of net assets resulting from operations in fiscal year 2018 for governmental and business activities combined.

### Changes in Net Position

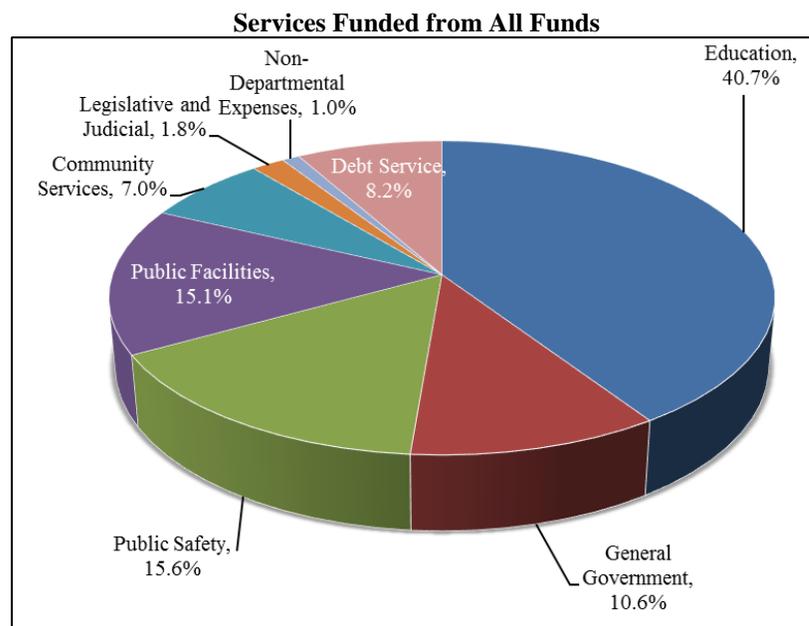
	Governmental Activities	Business-type Activities	Total
Revenues	1,381,592,414	\$126,777,913	\$1,508,370,327
Expenses	1,339,024,018	111,815,057	1,450,839,075
Increase in net position before transfers	42,568,396	14,962,856	57,531,252
Transfers	9,151,633	(9,151,633)	-
Increase in net position after transfers	51,720,029	5,811,223	57,531,252
Adjustments to restate net position*	122,118,537	(10,948,099)	111,170,438
Net Position - July 1, 2017	(198,072,383)	599,911,965	401,839,582
<b>Net Position - June 30, 2018</b>	<b>(\$24,233,817)</b>	<b>\$594,775,089</b>	<b>\$570,541,272</b>

## Overview of Revenues and Expenditures

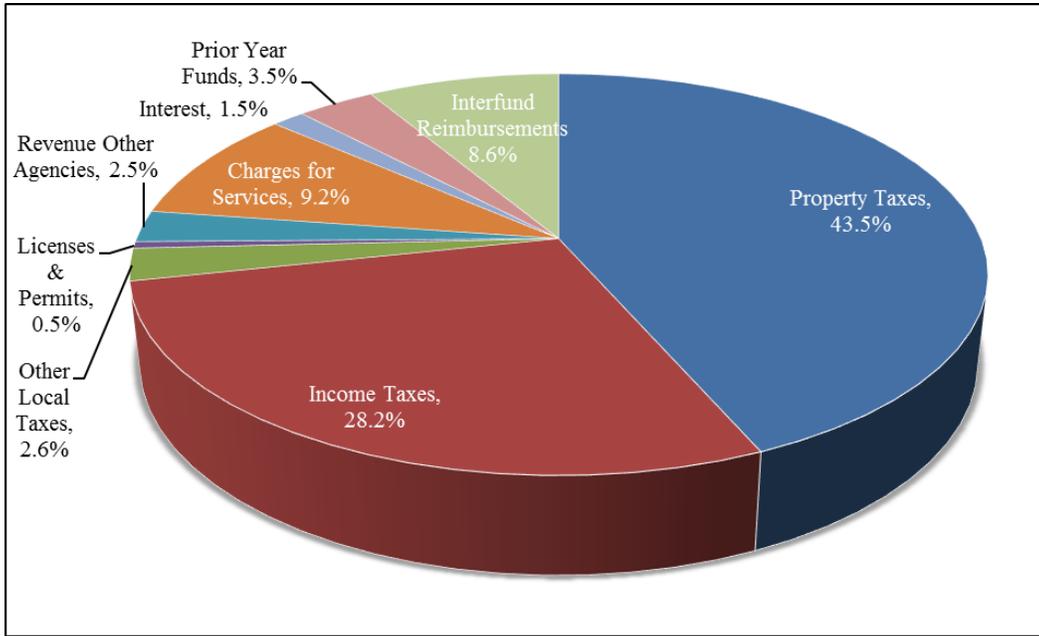
The largest fund in the County’s basic financial statements, the General Fund, records receipt of taxes and other revenues not directed by law into other funds and payment of all operating costs of County government and services. Transfers from the General Fund and revenues from other government agencies (particularly the State) provide most of the revenues for the County’s Board of Education, Library, Community College and Housing Commission, each of which is a Component Unit.

Special Revenue Funds account for specific revenues that by law are designated for particular functions or activities. The County uses Special Revenue Funds as a way of linking fees or taxes paid by residents with benefits or services received by them. Special Revenue Funds deal with management and construction of public housing, preservation of agricultural land, account for fire district activities, record categorical grants received from federal, State and local sources, support user-funded recreation and parks programs, account for speed enforcement programs, watershed protection and restoration projects, and provide for the collection and disposal of solid waste, including the County landfill.

The following charts present the composition of services funded from all Funds budgeted in fiscal year 2019, and the sources of funding for such services.

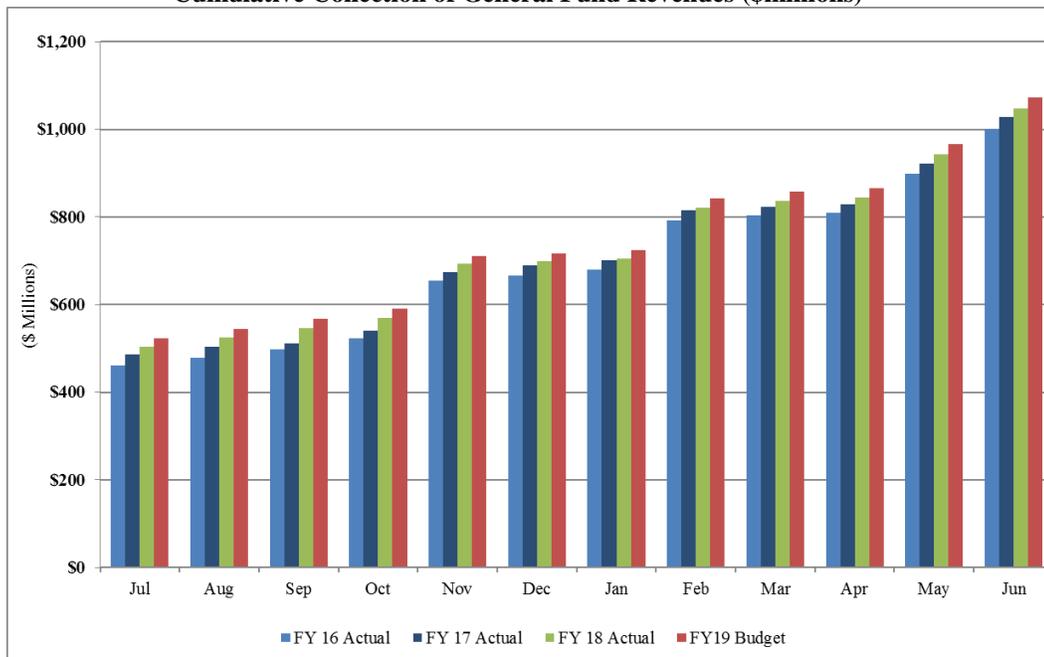


**Sources of Revenue for All Funds**



The revenues collected by the County each month are determined by the tax rates and fee levels established at the beginning of the fiscal year and the value of the bases during the year on which taxes and fees are collected. Property taxes are collected primarily during the County’s first and second quarters; income taxes are received from the State following the end of each quarter. The chart below presents General Fund revenues received for the past three fiscal years and as budgeted for FY2019.

**Cumulative Collection of General Fund Revenues (\$millions)**



The following table presents the activity in the General Fund for fiscal years 2014 through 2018 on a budgetary basis, along with the annual budget adopted for fiscal year 2019.

**Statement of General Fund Revenues and Expenditures (Budgetary Basis) (000) <sup>(1)</sup>**

	Fiscal Year Ended June 30					Budget
	2014	2015	2016	2017	2018	2019
<b>Tax Revenues</b>						
Local property taxes	\$459,016	\$476,160	\$499,903	\$517,898	\$533,685	\$549,278
Local income taxes	392,661	394,985	433,404	435,233	444,453	454,296
Other local taxes	27,172	30,423	33,272	34,421	32,941	31,451
State shared taxes	1,247	1,532	2,078	1,818	1,596	1,620
<b>Total Taxes</b>	<b>\$880,096</b>	<b>\$903,100</b>	<b>\$968,656</b>	<b>\$989,370</b>	<b>\$1,012,675</b>	<b>\$1,036,646</b>
<b>Other Revenues</b>						
State grants	7,348	6,513	6,502	8,939	8,178	8,531
Charges for services	13,966	13,616	14,698	14,395	14,776	13,503
Interest on investments	589	602	1,292	704	3,480	1,000
Licenses and permits	6,696	6,586	7,200	7,091	6,859	8,669
Interfund reimbursements	33,310	36,884	44,249	48,242	37,697	42,895
Fines and forfeitures	2,883	3,078	3,237	3,011	3,129	4,009
Appropriation from fund balance	14,734	39,770	-	1,402	2,308	23,243
Return of funding from component units	818	351	2,588	2,077	2,095	-
Miscellaneous revenues	2,902	2,565	9,817	3,467	2,265	2,112
<b>Total Revenues</b>	<b>\$963,343</b>	<b>\$1,013,065</b>	<b>\$1,058,240</b>	<b>\$1,078,697</b>	<b>\$1,093,462</b>	<b>\$1,140,608</b>
<b>Expenditures</b>						
General government	37,976	42,745	27,782	26,968	27,201	29,535
Legislative and judicial	22,138	23,892	25,220	25,690	26,912	28,870
Public works	69,497	71,939	71,449	69,819	73,235	71,828
Public safety	109,363	114,602	120,846	128,141	133,557	138,183
Recreation and parks	17,044	19,005	19,603	21,921	24,227	24,965
Health	8,191	7,784	8,181	10,925	-	11,461
Community services	19,728	21,575	32,160	32,515	34,508	37,242
Education	526,617	561,440	575,145	594,485	606,837	635,040
Libraries	17,676	18,842	18,842	19,544	20,309	20,938
Debt service:						
Principal payment on debt	58,415	58,735	65,702	65,452	60,617	65,387
Interest payment on debt	39,138	40,157	39,911	40,821	39,057	46,837
Capital improvements	25,560	17,351	4,779	5,304	4,752	14,597
OPEB funding <sup>(2)</sup>	12,000	15,000	10,000	13,000	16,000	15,724
<b>Total Expenditures</b>	<b>\$963,343</b>	<b>\$1,013,065</b>	<b>\$1,019,618</b>	<b>\$1,054,585</b>	<b>\$1,067,212</b>	<b>\$1,140,608</b>
Excess Revenues over Expenditures	-	-	38,623	24,112	26,250	-
Transfers In/(Out)	-	-	-	(24,112)	(26,250)	-
Plus Lapsed Encumbrances	462	1,522	2,019	2,406	2,620	-
Less Appropriation from Fund Balance	(14,734)	(39,770)	-	(1,402)	(2,308)	(23,243)
Beginning Fund Balance	138,294	124,022	85,774	126,011	127,016	127,328
Adjustment to Beginning Balance	-	-	(404)	-	-	-
<b>Ending Fund Balance</b>	<b>\$124,022</b>	<b>\$85,774</b>	<b>\$126,011</b>	<b>\$127,016</b>	<b>\$127,328</b>	<b>\$104,085</b>

(1) The information in this table is presented in the same format as set forth in the County's Operating Budget and should be read in conjunction with the audited basic financial statements available at [www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits](http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits).

(2) Funding was in addition to annual pay-go budget.

The following table presents the activity in all Special Revenue Funds for fiscal years 2014 through 2018 on a budgetary basis, along with the annual budget adopted for fiscal year 2019.

**Statement of Special Revenue Funds Revenues and Expenditures (Budgetary Basis)(000)<sup>(1)</sup>**

	Fiscal Year Ended June 30					Budget 2019
	2014	2015	2016	2017	2018	
<b>Revenues</b>						
Property taxes	\$80,304	\$83,233	\$87,382	\$90,703	\$96,463	\$100,002
Other local taxes	10,244	11,774	11,944	14,339	15,478	10,650
Revenues from other governmental agencies	16,463	14,724	16,967	22,359	15,461	275
Charges for services	40,483	42,039	41,982	44,461	44,577	44,360
Interest on investments <sup>(2)</sup>	1,637	2,235	3,626	(541)	172	3,740
Rental of property	178	112	-	-	-	0
Miscellaneous revenues	5,470	8,374	7,438	5,972	8,033	3,765
<b>Total Revenues</b>	<b>\$154,779</b>	<b>\$162,492</b>	<b>\$169,340</b>	<b>\$177,294</b>	<b>\$180,184</b>	<b>\$162,792</b>
<b>Other Sources of Financial Resources</b>						
Operating transfers in	8,398	8,442	171	472	5,474	3,612
Appropriation from fund balance	-	-	-	-	11,314	15,059
<b>Total Revenues and Other Sources of Financial Resources</b>	<b>\$163,177</b>	<b>\$170,933</b>	<b>\$169,511</b>	<b>\$177,766</b>	<b>\$196,972</b>	<b>\$181,462</b>
<b>Expenditures and Encumbrances</b>						
Public safety	83,002	91,456	88,453	97,586	104,076	99,551
Recreation and parks	17,755	17,463	18,425	19,345	19,900	20,225
Health <sup>(4)</sup>	14,705	11,719	-	-	-	-
Environmental	24,840	30,562	29,239	32,515	32,336	24,995
Community services and intergovernmental	17,013	18,780	19,304	13,844	16,784	12,486
Capital improvements	4,513	664	357	601	327	-
Debt service:						
Principal payment on debt <sup>(3)</sup>	2,018	2,451	2,783	9,295	5,543	4,298
Interest payment on debt	5,417	5,439	5,473	5,480	6,228	8,087
<b>Total Expenditures and Encumbrances</b>	<b>\$169,263</b>	<b>\$178,534</b>	<b>\$164,034</b>	<b>\$178,666</b>	<b>\$185,194</b>	<b>\$169,641</b>
<b>Other Uses of Financial Resources</b>						
Operating transfers out	3,593	1,953	3,459	3,779	3,909	11,821
<b>Total Expenditures and Other Uses of Financial Resources</b>	<b>\$172,856</b>	<b>\$180,487</b>	<b>\$167,493</b>	<b>\$182,445</b>	<b>\$189,103</b>	<b>\$181,462</b>
Excess Revenues and Other Sources of Financial Resources over Expenditures and Encumbrances and Other Uses of Financial Resources	(9,679)	(9,554)	2,018	(4,679)	7,869	-
Less Appropriation from Fund Balance	-	-	-	-	(11,314)	(15,059)
Beginning Fund Balance	136,987	127,308	117,754	119,772	115,093	111,648
<b>Ending Fund Balance</b>	<b>\$127,308</b>	<b>\$117,754</b>	<b>\$119,772</b>	<b>\$115,093</b>	<b>\$111,648</b>	<b>\$96,589</b>

(1) The information in this table should be read in conjunction with the audited basic financial statements which are available at [www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits](http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits)

(2) The recognition of \$3,717,878 decrease in the fair value of investments of the Agricultural Land Preservation Fund resulted in negative Interest Income in FY2017.

(3) Principal payments increased due to the change to equal annual principal payments in Agricultural Land Preservation Program Installment Purchase Agreements.

(4) In FY2016, the Health Fund was no longer listed as a separate Governmental Fund and shown as part of the General Fund based on clarified accounting rules.

The following table presents the Component Units' activity for the last five fiscal years on a GAAP basis, which is not comparable to General Fund and Special Revenue Funds statements prepared on a budgetary basis.

**Statement of Component Units Revenues and Expenses (GAAP Basis)(000)<sup>(1)</sup>**

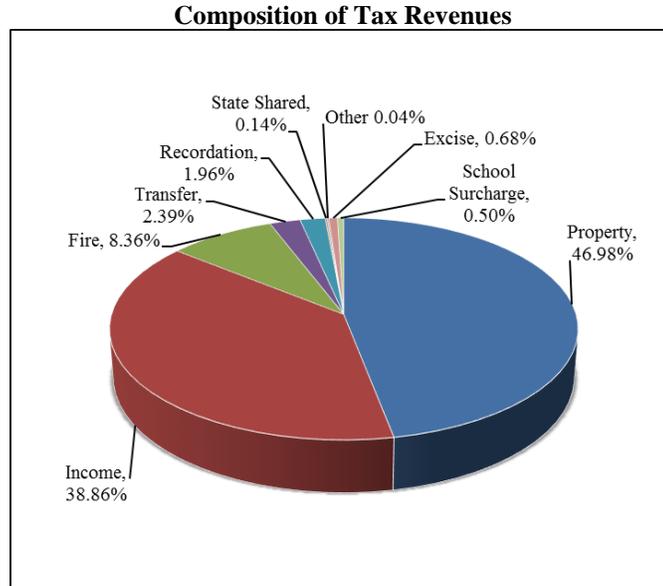
	Fiscal Year Ended June 30				
	2014	2015	2016	2017	2018
<b>Revenues:</b>					
Revenues from other agencies	\$473,608	\$482,346	\$513,611	\$542,820	\$522,958
Charges for services	59,782	67,204	68,787	68,218	85,399
Interest on investments	1,386	536	84	2,071	2,620
Miscellaneous	10,782	14,007	11,793	10,926	15,749
<b>Total Revenues</b>	<b>\$545,557</b>	<b>\$564,093</b>	<b>\$594,275</b>	<b>\$624,034</b>	<b>\$626,726</b>
<b>Other Sources of Financial Resources:</b>					
Operating transfers from primary government	544,594	579,766	593,986	614,044	628,304
<b>Total Revenues and Other Sources of Financial Resources</b>	<b>\$1,090,150</b>	<b>\$1,143,859</b>	<b>\$1,188,262</b>	<b>\$1,238,079</b>	<b>\$1,255,030</b>
<b>Expenditures:</b>					
Education	991,572	1,039,195	1,070,800	1,094,610	1,185,253
Libraries	21,929	22,275	22,707	23,932	25,379
Housing	33,104	39,890	39,240	41,736	48,150
<b>Total Expenditures</b>	<b>\$1,046,605</b>	<b>\$1,101,360</b>	<b>\$1,132,746</b>	<b>\$1,160,277</b>	<b>\$1,258,782</b>
Excess (Deficiency) of Revenues and Other Sources of Financial Resources over Expenditures	43,546	42,499	55,517	77,802	(3,752)
Beginning Net Assets	1,308,611	1,352,157	1,358,962	1,412,724	679,583
Adjustment to restate net assets	-	(35,693)	(1,755)	(810,942)	-
<b>Ending Net Assets, GAAP Basis</b>	<b>\$1,352,157</b>	<b>\$1,358,962</b>	<b>\$1,412,724</b>	<b>\$679,584</b>	<b>\$675,831</b>

(1) Excludes the Internal Service Funds.

## Sources of Revenue

### Overview of Tax Revenues

The chart below presents the composition of the County's budgeted tax revenues in all funds for fiscal year 2019.



### Local Property Taxes

#### Assessments

The assessment of all real and tangible personal property for purposes of property taxation by the County is solely the responsibility of the State Department of Assessment and Taxation, an independent State agency. Assessment records and tax rolls are maintained in each county seat and in Baltimore City. Real property is valued at market value (“full cash value”) and active farm property is assessed at \$500 per acre. Personal property owned by a business is assessed annually by the State based on returns filed by April 15 for property owned as of January 1 of that year.

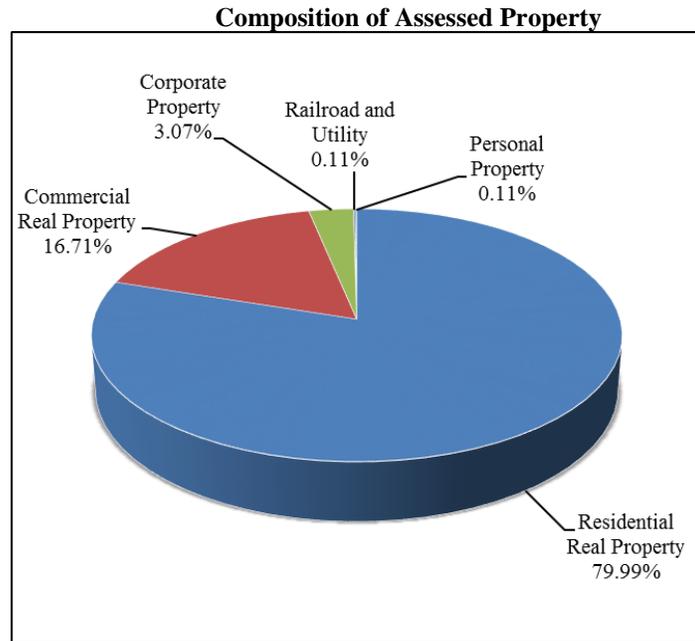
#### Property Tax Credit Programs

Under State law, certain owners who occupy residential property receive tax credits against local property taxes. The effect of the homestead property tax credit is to limit property tax increases payable as a result of increases in assessed values. State law permits a maximum increase of 10 percent in assessed value annually, but the County has elected to reduce that percentage to five percent. The County granted \$3.1 million of such tax credits in fiscal year 2018 and estimates \$2.1 million will be granted in fiscal year 2019.

A State-mandated tax credit is granted to certain property owners with lower incomes. The credit is calculated using a scale that establishes a maximum property tax liability for various income levels. The credit is reimbursed to the County by the State; for fiscal year 2018, the County received \$3,538,629. In fiscal year 2018 the County granted a supplemental credit to certain property owners with lower incomes. This credit amounted to \$32,185. The County also grants a tax credit for homeowners 70 years of age and older who fall into certain income and asset categories. In the fiscal year 2018, senior credits were issued in the amount of \$608,685.

## Assessed Value, Property Tax Rates and Property Tax Levies

The chart below presents the composition of the County's assessable base of both real and personal property in fiscal year 2018.



The following table presents the assessed value of all taxable property in the County for the last five fiscal years, the County tax rates and the tax levy in each of those years. The County has exempted manufacturers' and warehousing inventories and manufacturers' machinery, tools and equipment from local property taxation. Assessed values of tax-exempt properties owned by Federal, State and County governments, churches, charities, schools, fraternal organizations, cemeteries, fire companies, disabled veterans and the blind, aggregating approximately \$22.6 million as of June 30, 2018, are not included in the table below.

### Assessed Values, Tax Rates and Tax Levies

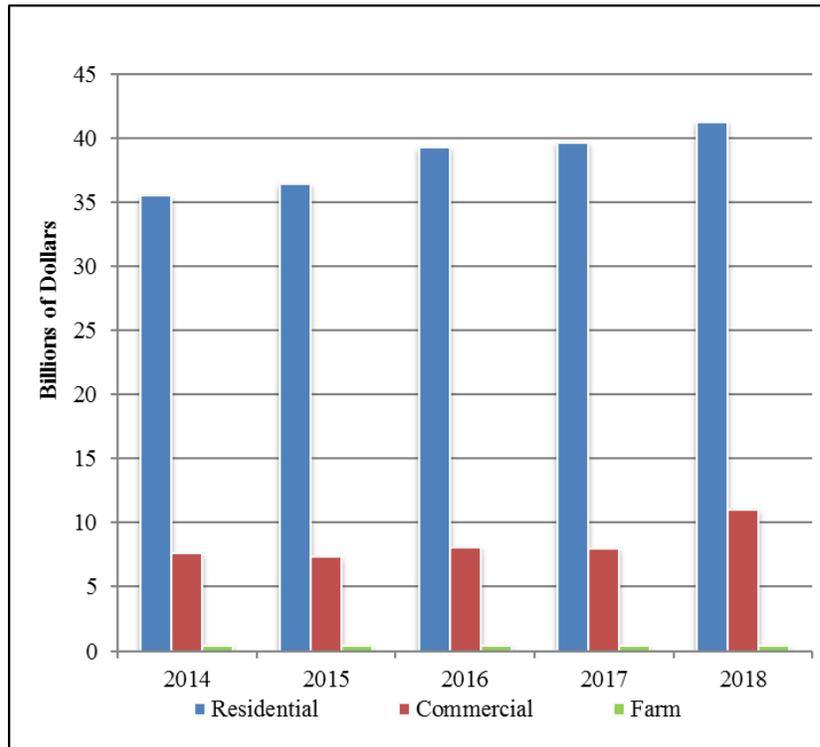
	Fiscal Year Ended June 30				
	2014	2015	2016	2017	2018
Assessed Value(000)					
Real property	\$42,990,610	\$44,112,719	\$45,939,083	\$47,976,024	\$49,821,784
Personal property	41,670	49,749	51,398	53,600	55,941
Railroads and public utilities	49,790	51,966	60,841	51,837	57,826
Corporations	1,470,072	1,516,731	1,590,292	1,545,347	1,582,455
<b>Total Assessable Base</b>	<b>\$44,552,141</b>	<b>\$45,731,164</b>	<b>\$47,641,613</b>	<b>\$49,626,809</b>	<b>\$51,518,005</b>
County Tax Rate:					
Real Property	1.014	1.014	1.014	1.014	1.014
Personal Property	2.535	2.535	2.535	2.535	2.535
County Tax Levy (000) <sup>(1)</sup>	\$473,132	\$485,607	\$506,793	\$525,427	\$545,280
Fire District Tax Rate					
Real property	0.176	0.176	0.176	0.176	0.176
Personal property	0.440	0.440	0.440	0.440	0.440
Fire Tax Levy (000)	\$82,123	\$84,285	\$87,964	\$91,207	\$94,653

(1)Excludes payments in lieu of taxes, additions and abateements, interest on taxes, discounts on taxes, various tax credits and tax levies on any tax-exempt property.

The fire district tax is levied on the assessable base within the County’s fire district. Proceeds of the tax are distributed to the Fire Tax Reserve Fund, a Special Revenue Fund, to fund operations, equipment and buildings.

As presented in the following chart, the value of commercial/industrial property increased approximately 44.0% over the last five fiscal years, agricultural property values increased approximately 5.9% and residential real property values increased approximately 16.1%.

**Value of Assessable Base by Type of Property**



The County estimates that the assessed value of all taxable property in the County for the fiscal year ending June 30, 2019 will be approximately \$53.1 billion. The County’s real property tax rate for fiscal year 2019 is \$1.014 per \$100 of full cash value for real property and \$2.535 per \$100 of assessed value for personal property owned by businesses. In fiscal year 2019, the total property tax revenue budgeted for the General Fund is \$549.3 million, or a 3.31 percent increase from the amount budgeted in FY 2018.

**Property Tax Collection**

County taxes are due and payable as of July 1 of each fiscal year, except that real property taxes on principal residences and on small business properties are due and payable in two installments as of July 1 and December 1 of each fiscal year. A discount of 0.5 percent is allowed on payments made in July. The County records property tax revenues as the taxes are billed. Over the last five years, the County has collected virtually all of the property taxes levied.

When taxes become delinquent, combined interest and penalty at the rate of 1.5 percent per month are charged for each month or fraction thereof that taxes due remain unpaid for the current year. Delinquent taxes are satisfied, after prior notice of delinquency, at public auction conducted by the Director of Finance prior to the end of the fiscal year of billing. The net receivables uncollected 60 days after year-end are recorded as deferred revenues. Personal property taxes receivable are charged off as uncollectible after all collection means are exhausted.

The table below presents information with respect to the County's tax levies and tax collections for fiscal years 2014 through 2018.

**Total Property Tax Levies and Collections (000)**

Fiscal Year Ended June 30	Total Tax Levy (1)	Current Year's Taxes		Taxes Collected		Delinquent Taxes Amount	As % of Current Year's Tax Levy
		Collection Year of Levy (Current and Delinquent)					
		Amount	%	Amount	%		
2018	\$639,933	\$635,258	99.27	\$635,258	99.27	\$4,675	0.73
2017	616,634	612,695	99.36	615,847	99.87	786	0.13
2016	594,758	593,510	99.79	594,323	99.93	435	0.07
2015	569,892	568,112	99.69	569,523	99.94	369	0.06
2014	555,255	550,756	99.19	554,984	99.95	270	0.05

(1) Total tax levy represents the original property tax levy, and excludes fire district taxes levied, payments in lieu of taxes, additions and abatements, interest on taxes, discount on taxes and various tax levies on any tax-exempt property.

**Major Property Taxpayers**

The following table presents the ten largest property taxpayers on June 30, 2018, the total taxes paid by such taxpayers during fiscal year 2018 and the assessed value of real and personal property owned by each taxpayer during fiscal year 2018.

**Ten Largest Property Taxpayers <sup>(1)</sup>**

Name of Taxpayer	Type of Business	Total Taxes Paid (000)	Taxable Assessed Valuation Amount (000)	Percentage of Total Assessed Valuation
Baltimore Gas & Electric Company	Gas and Electric Utility	\$12,655	\$421,718	0.66%
Mall in Columbia Business Trust	Rental Real Estate	3,881	276,187	0.43
Howard Properties Howard Crossing	Apartment Rentals	2,004	143,429	0.22
Verizon - Maryland	Telephone Communicatons	3,267	109,149	0.17
Parcel D Property LLC	Rental Real Estate	1,247	100,299	0.16
Home Properties Charleston	Apartment Rentals	1,388	99,483	0.16
9220 Old Lantern Way Owner LLC	Apartment Rentals	1,192	85,458	0.13
API Columbia Town Center LLC	Rental Real Estate	1,148	80,161	0.13
Mariner Sherwood	Apartment Rentals	1,156	79,115	0.12
Lutheran Village	Rental Real Estate	1,014	73,930	0.12
Totals		\$28,952	\$1,468,931	1.64%

(1) The information set forth above was compiled from tax rolls on which the names of owners are not always recorded in the same manner.

**Local Income, Transfer and Other County Taxes**

**Local Income Taxes**

The State imposes an income tax on the adjusted income of individuals as determined for federal income tax purposes, subject to certain adjustments. For tax year 2018, Maryland's personal tax rates begin at 2% on the first \$1000 of taxable income and increase up to a maximum of 5.75% on incomes exceeding \$250,000 (or \$300,000 for taxpayers filing jointly, heads of household, or qualifying widows/widowers). Nonresidents are subject to a special tax rate of 1.75%, in addition to the state income tax rate.

Pursuant to State law, each county and Baltimore City may levy a local income tax at the rate of at least 1.75 percent, but not more than 3.2 percent, of the State taxable income of individuals domiciled in their respective jurisdictions. With a local income tax rate of 3.2 percent, the County is one of eight with local income tax rates set at the maximum.

On May 18, 2015, the United States Supreme Court decided *Comptroller of the Treasury of Maryland v. Wynne*, (No. 13-485), holding that Maryland’s personal income tax structure, which allowed counties to collect personal income taxes from residents on income earned in other states where the income was subject to tax by that state, violates the Commerce Clause. The total fiscal impact on the County is still being assessed but the decision will have a direct impact on the County in both covering historical liabilities resulting from refund claims by certain taxpayers and from a loss of revenues in the future. As of September 2017, the County has incurred verified accumulative historical liabilities of approximately \$9.1 million based on refund claims approved and processed by the State Comptroller’s Office. This number will increase as more requests for refunds are processed by the State Comptroller’s Office. For those historical liabilities, the State will initially provide the refunds to the taxpayers and then the County has the option to either pay back the State the full amount in one lump sum or through nine quarterly installments, commencing in November 2020 (FY 2021).

Under Maryland law, taxpayers are generally eligible for interest on certain tax refunds calculated at an annual rate of interest equal to the greater of (i) three percentage points above the average prime rate of interest or (ii) 13%. In 2014, the Maryland General Assembly adopted legislation that set the annual interest rate for an income tax refund that is a result of the final decision under the *Wynne* case to a percent equal to the average prime rate of interest. This legislation substantially lowers the interest rate on tax refunds due as a result of the *Wynne* decision. Further, the legislation was intended to be effective retroactively. On November 13, 2015, lawyers for Michael J. Holzheid filed a class action complaint, *Michael J. Holzheid v. Comptroller of the Treasury of Maryland, et al*, in the Circuit Court for Baltimore City challenging the state legislation. On January 16, 2018, the Circuit Court dismissed the complaint having determined that the Circuit Court lacked jurisdiction of the matter based upon the plaintiffs’ failure to exhaust administrative remedies. Other taxpayers may also file claims or appeals challenging the state legislation. If such claims or appeals are successful, the estimated amount of interest on refunds owed by the County would increase.

As reflected in the FY2017 CAFR (for fiscal year closing on June 30, 2017), the County no longer assigned any amount from its fund balance for refunds resulting from the *Wynne* case. The installment payments are spread over multiple years and the County is able to incorporate estimated impact in its annual revenue forecasts rather than set aside a lump sum in the fund balance to address such impact. The County estimates its loss in income revenues to be approximately \$1.5 million to \$2.0 million per year going forward.

The following table presents the total amount of income tax budgeted for the last six fiscal years and received for fiscal years 2014 through 2018.

**Income Tax Revenues (000)**

<b>Fiscal Year Ended</b>	<b>Budget</b>	<b>Actual</b>
<b>June 30</b>		
2019	\$531,696	
2018	444,292	\$444,453
2017	430,586	435,233
2016	407,367	433,404
2015	408,780	394,985
2014	370,000	392,661

**Local Transfer Taxes**

The County levies and collects a transfer tax at the rate of one percent of the actual consideration paid for the conveyance of title, which tax is imposed upon all transfers of real property within the County. Twenty-five percent of proceeds of the transfer tax are distributed to an agency fund for school construction and site acquisition, 25 percent for Recreation and Parks, 12.5 percent for Fire Service Buildings and Equipment Capital Project Funds, 25 percent for the Agricultural Land Preservation Program, and 12.5 percent to the Community Renewal Special Revenue Funds. In fiscal year 2018, the total amount of transfer tax collected was \$37.8 million. The amount of transfer tax budgeted for fiscal year 2019 is \$28.0 million.

**Building Excise Tax**

The County levies and collects a building excise tax on all construction in the County. The tax is levied at the time a building permit is issued and the amount of tax paid is determined by the square footage of the construction project. The

County uses this money to fund road construction projects as well as to pay debt service on general obligation bonds whose proceeds fund such projects. The County has issued \$130.5 million of these general obligation bonds since 2000. In addition, \$51.4 million of excise tax collected has been appropriated as pay-go funding on road construction projects since fiscal year 1995. The total amount of excise taxes collected were \$7.4 million in fiscal year 2018 and \$8.0 million is budgeted in fiscal year 2019.

### **School Facilities Surcharge**

The County levies and collects a surcharge on all residential construction in the County. The surcharge is levied at the time a building permit is issued. The County uses this money to fund public school construction projects as well as to pay debt service on general obligation bonds whose proceeds fund such projects. Prior capital budgets included \$102 million of County general obligation bonds whose debt service will be paid from the surcharge. The County has issued \$100.95 million of these general obligation bonds. The total amount of school facilities surcharge collected in fiscal year 2018 was \$6.2 million, and \$5.8 million is budgeted in fiscal year 2019.

### **Other County Taxes**

The County levies and collects other miscellaneous taxes, the largest of which is the recordation tax on instruments conveying title to property and securing debt. In fiscal year 2018, the total amount of other taxes collected was \$32.9 million. Of this amount, \$22.7 million was attributable to the recordation tax. The fiscal year 2019 recordation tax budget is \$23.0 million.

### **Local Charges for Services, Licenses and Permits, and Fines**

The County and its Component Units collect charges for various services as well as fees for licenses and permits. The largest of these constituting General Fund revenues are rental housing inspection fees, development-review fees, cable television franchise fees and charges for boarding prisoners. In fiscal year 2018, the total amount of charges and fees collected in the General Fund were \$15.1 million. The fiscal year 2019 budget is \$13.5 million.

The largest charges and fees credited to Special Revenue Funds are charges for use of recreational facilities and programs and fees and charges for trash collection and use of the County landfill. The total amount of charges and fees collected in Special Revenue Funds in fiscal year 2018 were \$44.6 million and \$44.4 million is budgeted in fiscal year 2019.

### **State-Shared Taxes**

The State shares certain taxes collected in the County with the County. These taxes are primarily collected on gasoline sales and used for construction and maintenance of highways. The State is not required to share such taxes and has changed the amount that it shares from year to year. The total amount of State-shared taxes collected in fiscal year 2018 was \$1.6 million, with \$1.6 million budgeted for fiscal year 2019.

### **State and Federal Grant Assistance**

The County receives and accrues grant revenues from the federal and State governments. The largest of these grants constituting General Fund revenues is from the State for police protection. The total amount of grants received in the General Fund in fiscal year 2018 was \$8.2 million, with \$8.5 million budgeted in fiscal year 2019.

Revenues in the Grants Special Revenue Fund are primarily categorical grants from the federal government funding special programs, such as housing, senior services, transit and homeland security. The total amount of grant funds received in the Grants Special Revenue Fund in fiscal year 2018 was \$15.3 million.

The County's Component Units receive and accrue grants from other government agencies, primarily the State, in addition to operating transfers received from the County. In fiscal year 2018, the total amount of grants collected by the Component Units was \$173.5 million. Of that amount \$168.9 million was used for operations by the Board of Education, \$0.4 million was used for operations by the Community College and \$4.1 million funded the Howard County Housing Commission.

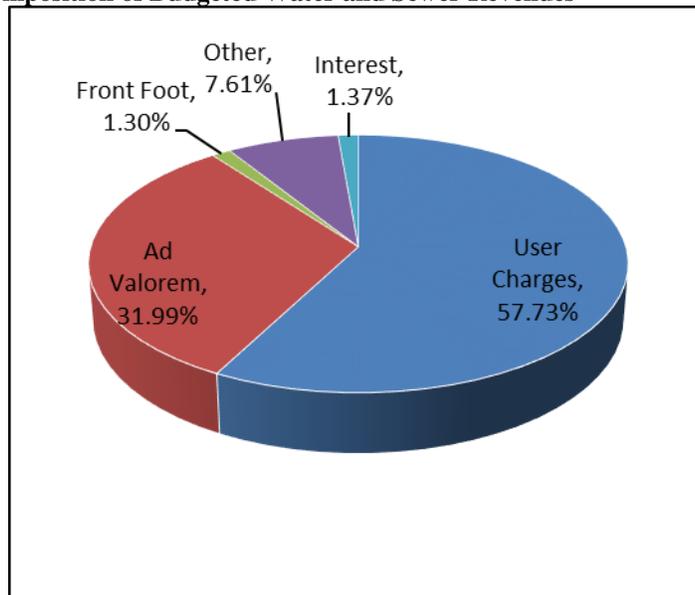
## Water and Sewer Enterprise Fund

The County provides water and sewer services primarily to areas of heavy residential and commercial demand in the eastern part of the County (the “Metropolitan District”). The Metropolitan District and the County’s water and sewer facilities are described in more detail under “Government and Infrastructure, Water and Sewer System” herein. Financial accounting for the County’s water and sewer operations is consolidated in an enterprise fund.

Water and sewer service charges are recorded as revenues when they are billed. At each fiscal year-end, revenue is accrued for the amount of unbilled water and sewage service provided. Other revenues are recorded as payments when received, except at fiscal year-end, when all other revenues are also accrued. Unpaid water and sewer service charges and assessments are a lien on the real property served and are collectible in the same manner as real property taxes at tax sale.

The water and sewer enterprise fund’s largest source of operating revenues are water and sewer user charges. These charges are based on the amount of water used. Commercial and residential properties connecting into the water and sewer system also pay connection charges. The average quarterly bill for a family of four in fiscal year 2018 is approximately \$245.

**Composition of Budgeted Water and Sewer Revenues**



The chart above presents the costs related to provision of water and sewer services are financed primarily with ad valorem, front-foot charges, and user fees. For fiscal year 2018, an ad valorem charge of \$0.08 per \$100 assessed value was levied upon all property located within the Metropolitan District. Property abutting a road under which the County has built a water or sewer main is charged a fixed amount annually for 30 years (front foot), with such amount established in the year in which water or sewer service becomes available to each specific property. An in-aid-of-construction charge is collected for each connection of an equivalent dwelling unit.

The County has entered into certain agreements with Baltimore City, Baltimore County and the Washington Suburban Sanitary Commission for water supply services and/or sewage disposal services. Under the terms of such agreements, the County is to reimburse these governmental units for their costs of providing water and sewer service. The County provides for annual accrual of its liability under these agreements. Under the terms of several other agreements with these governmental units as well as Anne Arundel County, the County is obligated to fund a portion of capital improvements to certain existing and proposed water and sewer facilities. The County estimates that its remaining commitment under these agreements over the next five fiscal years is \$18.7 million and such obligation is included in the County’s capital program.

The following table presents the revenues, expenses and changes in net position of the water and sewer enterprise fund for fiscal years 2014 through 2018.

**Water & Sewer Enterprise Fund Statement of Revenues, Expenses & Changes in Net Position (000)<sup>(1)</sup>**

	Fiscal Year Ended June 30				
	2014	2015	2016	2017	2018
<b>Operating Revenues:</b>					
User charges	\$55,966	\$60,668	\$62,204	\$61,736	\$60,634
Miscellaneous sales and services	1,255	1,285	859	525	2,684
<b>Total Operating Revenues</b>	<b>\$57,221</b>	<b>\$61,953</b>	<b>\$63,063</b>	<b>\$62,262</b>	<b>\$63,318</b>
<b>Operating Expenses:</b>					
Salaries and employee benefits	11,209	11,794	12,538	13,478	13,550
Contractual services	23,841	22,849	17,506	15,262	14,765
Supplies and materials	1,690	2,238	3,701	2,248	2,216
Business, travel and vehicle expenses	2,117	1,498	1,470	1,574	1,841
Purchased water and transmission charges	17,405	18,620	20,480	23,416	26,926
Sewage treatment charges	9,678	6,484	4,359	7,081	7,550
Share of county administrative expense	4,016	4,288	4,703	4,484	5,035
Other	1,002	717	435	1,173	730
Depreciation expense	18,982	19,701	21,609	22,360	22,714
Less: House connection and capitalized overhead costs	(74)	(66)	(139)	(91)	(51)
<b>Total Operating Expenses</b>	<b>\$89,866</b>	<b>\$88,122</b>	<b>\$86,661</b>	<b>\$90,985</b>	<b>\$95,274</b>
<b>Operating Loss</b>	<b>(32,645)</b>	<b>(26,169)</b>	<b>(23,598)</b>	<b>(28,723)</b>	<b>(31,956)</b>
<b>Nonoperating Revenues (Expenses):</b>					
Ad valorem charges	29,197	30,010	31,340	32,670	33,958
Water and sewer assessment charges	2,421	2,180	1,903	1,619	1,324
Interest on investments	133	235	760	824	2,201
Interest expense	(9,186)	(9,234)	(9,527)	(10,880)	(10,828)
Gain (loss) on sale of capital assets	-	(133)	396	-	53
Other revenue (expense)	72	11,086	3,331	881	(28)
<b>Total Nonoperating Revenues (Expenses)</b>	<b>\$22,637</b>	<b>\$34,144</b>	<b>\$28,202</b>	<b>\$25,114</b>	<b>\$26,680</b>
<b>Net Income before Contributions and Transfers</b>	<b>(10,009)</b>	<b>7,975</b>	<b>4,604</b>	<b>(3,609)</b>	<b>(5,276)</b>
Capital contributions	11,290	27,513	14,729	7,606	11,433
Operating transfers in (out)	-	(500)	-	-	-
<b>Change in Net Position</b>	<b>\$1,281</b>	<b>\$34,988</b>	<b>\$19,333</b>	<b>\$3,997</b>	<b>\$6,157</b>
Net Position at Beginning of Period	504,372	505,653	538,689	558,022	562,020
Adjustment to Beginning Net Position	-	(1,952)	-	-	(10,948)
<b>Net Position at End of Period</b>	<b>\$505,653</b>	<b>\$538,689</b>	<b>\$558,022</b>	<b>\$562,020</b>	<b>\$557,229</b>

(1) This information should be read in conjunction with the audited basic financial statements which are available at [www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits](http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits).

## Special Recreation Facility Enterprise Fund

The County owns an 18-hole public golf course, opened in 1996, whose construction and equipping were financed with proceeds of revenue bonds issued in 1995 and subsequently refunded in 2003. In May 2012, the 2003 bonds were redeemed by the Taxable Golf Course Refunding Revenue Note (Timbers at Troy Golf Course), Series 2012, which was privately negotiated with a financial institution. The County accounts for the operations of the golf course in an enterprise fund. The County has a multi-year contract through December 31, 2027 with a management company to operate the course. The course is now leased as of January 1, 2018. Lease revenue is now received instead of sales revenues.

The following table presents the revenues, expenses and changes in net assets of the special recreation facility enterprise fund for fiscal years 2014 through 2018.

**Special Recreation Facility Enterprise Fund Statement of Revenues, Expenses & Changes in Net Position (000)<sup>(1)</sup>**

	Fiscal Year Ended June 30				
	2014	2015	2016	2017	2018
<b>Operating Revenues:</b>					
Greens & cart fees	\$1,428	\$1,326	\$1,272	\$860	\$687
Range fees	105	109	114	81	51
Merchandise sales & services	116	125	117	85	74
Food & beverage	334	307	309	213	161
Miscellaneous sales & services	26	27	27	22	116
<b>Total Operating Revenues</b>	<b>\$2,010</b>	<b>\$1,893</b>	<b>\$1,840</b>	<b>\$1,261</b>	<b>\$1,089</b>
<b>Operating Expenses:</b>					
Contractual services	\$1,571	\$1,459	\$1,557	\$2,729	\$935
Supplies and Materials	-	-	-	-	10
Depreciation expense	42	40	39	48	151
<b>Total Operating Expenses</b>	<b>\$1,612</b>	<b>\$1,499</b>	<b>\$1,595</b>	<b>\$2,777</b>	<b>\$1,096</b>
<b>Operating Income/(Loss)</b>	<b>\$398</b>	<b>\$394</b>	<b>\$245</b>	<b>(\$1,516)</b>	<b>(\$7)</b>
<b>Nonoperating Expenses:</b>	<b>(249)</b>	<b>(204)</b>	<b>(169)</b>	<b>(138)</b>	<b>(124)</b>
Income before contributions & transfers	148	191	76	(1,653)	(131)
Operating transfers in (out)	30	120	0	2,216	(4)
<b>Change in Net Position</b>	<b>\$178</b>	<b>\$311</b>	<b>\$76</b>	<b>\$563</b>	<b>(\$135)</b>
Net Position at Beginning of Period	5,515	5,694	6,005	6,081	6,644
<b>Total Net Position</b>	<b>\$5,694</b>	<b>\$6,005</b>	<b>\$6,081</b>	<b>\$6,644</b>	<b>\$6,508</b>

(1) The information in this table should be read in conjunction with the audited basic financial statements which are available at [www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits](http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits).

## Broadband Enterprise Fund

The Broadband Fund accounts for broadband services to private sector businesses as well as non-County government agencies and County departments and component units.

The following table presents the revenues, expenses and changes in net position of the broadband enterprise fund for fiscal years 2015 through 2018.

**Broadband Enterprise Fund Statement of Revenues, Expenses & Changes in Net Position <sup>(1)</sup>**

	Fiscal Year Ended June 30			
	2015	2016	2017	2018
<b>Operating Revenues:</b>				
User charges	\$1,101,330	\$1,322,575	\$1,582,113	\$1,786,773
Miscellaneous sales & services	-	-	13,959	-
<b>Total Operating Revenues</b>	<b>\$1,101,330</b>	<b>\$1,322,575</b>	<b>\$1,596,072</b>	<b>\$1,786,773</b>
<b>Operating Expenses:</b>				
Salaries and employee benefits	371,432	475,633	581,301	661,223
Contractual services	554,567	535,192	161,864	40,735
Supplies and materials	684	357,314	34,364	220
Business, travel and vehicle expenses	734	2,323	2,120	417
Depreciation expense	720,961	671,625	681,729	707,145
<b>Total Operating Expenses</b>	<b>\$1,648,378</b>	<b>\$2,042,087</b>	<b>\$1,461,378</b>	<b>\$1,409,740</b>
<b>Operating Income/(Loss)</b>	<b>(\$547,048)</b>	<b>(\$719,512)</b>	<b>\$134,694</b>	<b>\$377,033</b>
<b>Nonoperating Revenues (Expenses):</b>				
Interest on investments	(94)	3,478	5,707	44,511
Interest expense	-	-	-	(10,935)
Gain (loss) on sale of capital assets	23,318	14,629	-	-
<b>Total Nonoperating Revenues (Expenses)</b>	<b>\$23,224</b>	<b>\$18,107</b>	<b>\$5,707</b>	<b>\$33,576</b>
<b>Net Income before Contributions and Transfers</b>	<b>(\$523,824)</b>	<b>(\$701,405)</b>	<b>\$140,401</b>	<b>\$410,609</b>
Capital contributions	13,340,837	-	435,147	543,859
Operating transfers in (out)	52,940	489,909	563,072	(1,259,040)
<b>Change in Net Position</b>	<b>\$12,869,953</b>	<b>(\$211,496)</b>	<b>\$1,138,620</b>	<b>(\$304,572)</b>
Net Position at Beginning of Period	-	12,869,953	\$12,658,457	\$13,797,077
<b>Net Position at End of Period</b>	<b>\$12,869,953</b>	<b>\$12,658,457</b>	<b>\$13,797,077</b>	<b>\$13,492,505</b>

(1) This information should be read in conjunction with the audited basic financial statements which are available at [www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits](http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits).

## Watershed Protection and Restoration Enterprise Fund

The County passed legislation to create a Watershed Protection and Restoration fund as a dedicated, non-lapsing, enterprise fund. The legislation allowed for the collection of a watershed protection and restoration fee to allocate the cost of the program to all owners of improved real property based on impervious surface measurement. The fee was included, as a separate item, on a supplemental real property tax bill, for each property subject to the fee.

The following table presents the revenues, expenses and changes in net position of the watershed protection and restoration enterprise fund for fiscal years 2014 through 2018.

**Watershed Protection and Restoration Enterprise Fund**  
**Statement of Revenues, Expenses & Changes in Net Position (000)<sup>(1)</sup>**

	Fiscal Year Ending June 30				
	2014	2015	2016	2017	2018
<b>Operating Revenues:</b>					
User charges	\$10,272	\$11,106	\$11,069	\$11,033	\$10,812
Miscellaneous sales and services	28	29	25	17	25
<b>Total Operating Revenues</b>	<b>\$10,301</b>	<b>\$11,135</b>	<b>\$11,094</b>	<b>\$11,050</b>	<b>\$10,836</b>
<b>Operating Expenses:</b>					
Salaries and employee benefits	440	1,158	771	830	938
Contractual services	652	653	738	935	1,586
Supplies and materials	6	1	-	28	1
Business, travel and vehicle expenses	-	1	2	-	1
Share of county administrative expense	1	710	1,107	1,094	1,253
Other	130	78	92	82	82
Depreciation expense	4	26	35	77	97
<b>Total Operating Expenses</b>	<b>\$1,232</b>	<b>\$2,627</b>	<b>\$2,745</b>	<b>\$3,047</b>	<b>\$3,959</b>
<b>Operating Income/(Loss)</b>	<b>\$9,069</b>	<b>\$8,508</b>	<b>\$8,350</b>	<b>\$8,003</b>	<b>\$6,877</b>
<b>Nonoperating Revenues (Expenses):</b>					
Interest on investments	2	8	61	65	204
Gain (loss) on sale of capital assets	-	-	63	-	-
Interest expense	-	-	-	-	-
<b>Total Nonoperating Revenues (Expenses)</b>	<b>\$2</b>	<b>\$8</b>	<b>\$123</b>	<b>\$65</b>	<b>\$204</b>
<b>Net Income before Contributions and Transfers</b>	<b>9,071</b>	<b>8,516</b>	<b>8,473</b>	<b>8,068</b>	<b>7,081</b>
Capital contributions	-	-	-	-	-
Operating transfers in (out)	(7,375)	(3,370)	(2,808)	(5,948)	(7,888)
<b>Change in Net Position</b>	<b>\$1,696</b>	<b>\$5,146</b>	<b>\$5,665</b>	<b>\$2,120</b>	<b>(\$807)</b>
Net Position at Beginning of Period	-	1,696	6,842	12,506	14,626
<b>Net Position at End of Period</b>	<b>\$1,696</b>	<b>\$6,842</b>	<b>\$12,506</b>	<b>\$14,626</b>	<b>\$13,819</b>

(1) This information should be read in conjunction with the audited basic financial statements which are available at [www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits](http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits).

## Retirement and Pension Programs

### Overview of Programs

Each fully benefited employee of the County is provided retirement benefits through and must be a member of (1) the Police and Fire Employees' Retirement Plan ("Police/Fire Plan"), (2) the Howard County Retirement Plan ("County Plan") or (3) the Employee Retirement and Pension Systems of the State of Maryland ("State Systems"). The State Systems are cost-sharing multiple-employer defined benefit systems; the Police/Fire Plan and the County Plan are single-employer defined benefit public employee retirement plans administered by the County. Fully benefited employees of the Component Units are provided retirement benefits through the State Systems; most contributions to the State Systems for these employees are made directly by the State according to State statute. The Governor's FY 2013 budget authorized the counties to share the cost of funding teachers' pensions. As of this date, the General Assembly has not adopted statutory changes to the current obligation of the State to pay pension costs or regarding any costs or responsibilities for unfunded actuarial liabilities that might be passed on to the counties. The Component Units' financial reports for the year ended June 30, 2018 present information related to their participation in the State Systems.

The following table presents the enrollment (as of July 1, 2018) and payroll in fiscal year 2018 for County employees covered by the State Systems (excluding Component Unit employees), Police/Fire Plan and County Plan.

	<b>Enrollment</b>			<b>Payroll (000)</b>
	<b>Inactive</b>	<b>Active Vested</b>	<b>Active Non-Vested</b>	
State Systems	-	66	-	\$4,862
Police/Fire Plan	422	730	170	81,864
County Plan	998	1,174	598	116,573
Non-Covered Payroll	-	-	-	19,319
<b>Total</b>	<b>1,420</b>	<b>1,970</b>	<b>768</b>	<b>\$222,618</b>

Information regarding these retirement and pension programs is contained in Note 15 of the notes to the audited basic financial statements.

### **Funding of Payments**

Retirement and pension payments are funded from three sources: County contributions, member contributions and investment earnings. The following table presents the County’s total pension contributions for fiscal years 2014 through 2018.

<b>Total Pension Contributions (000)</b>			
<b>Fiscal Year Ended June 30</b>	<b>Police/Fire Plan Contribution</b>	<b>County Plan Contribution</b>	<b>Total County Contribution</b>
2018	\$26,337	\$14,841	\$41,178
2017	24,729	14,179	38,908
2016	21,636	13,428	35,064
2015	22,530	13,967	36,497
2014	20,822	12,778	33,600

### **Pension Liability**

The County’s funding policies provide for periodic employer contributions at rates determined actuarially to accumulate sufficient assets to pay for benefits when due. The County had a net pension liability of \$35.4 million and \$121.5 million, as of June 30, 2017 for the County Plan and the Police/Fire Plan respectively. The County has always made its annual required contributions. The following tables present the computation of contribution requirements for the Police/Fire Plan and the County Plan through the most recent actuarial valuations.

The Police/Fire Plan was only 37% funded when it was established in 1990. The increase in unfunded accrued liabilities of the Police/Fire Plan and the County Plan is primarily the result of a reduction in the assumed rate of return from 8.0% on a gross basis to 7.50% on a net basis. Investment gains and losses are smoothed over five years and actuarial gains and losses are amortized over 15 years for both plans.

### Computation of Contribution Requirements

	<b>Police/Fire Plan for the Fiscal Year Ended June 30</b>				
	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
	<b>Valuation</b>	<b>Valuation</b>	<b>Valuation</b>	<b>Valuation</b>	<b>Valuation</b>
Total Pension Liability (\$000)	491,603	528,451	574,446	637,712	694,496
Net Position (\$000)	409,534	430,364	441,335	505,924	562,284
Net Pension Liability (\$000)	(104,990)	(96,272)	(105,913)	(121,456)	(122,594)
Percentage Funded <sup>(1)</sup>	78.6	81.8	81.6	81.0	82.3
Annual Covered Payroll (\$000)	63,422	62,709	72,790	80,814	81,037
Net Pension Liability as % of Annual Covered Payroll (1)	165.5	153.5	145.5	150.3	151.3
	<b>County Plan for the Fiscal Year Ended June 30</b>				
	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
	<b>Valuation</b>	<b>Valuation</b>	<b>Valuation</b>	<b>Valuation</b>	<b>Valuation</b>
Total Pension Liability (\$000)	351,632	377,131	400,512	445,553	478,828
Net Position (\$000)	339,172	353,239	356,119	401,208	440,606
Net Pension Liability (\$000)	(33,179)	(23,487)	(22,498)	(35,438)	(31,068)
Percentage Funded <sup>(1)</sup>	90.6	93.8	94.4	92.0	93.5
Annual Covered Payroll (\$000)	97,076	101,085	108,292	114,349	119,686
Net Pension Liability as % of Annual Covered Payroll <sup>(1)</sup>	34.2	23.2	20.8	31.0	26.0
(1) Based on Actuarial Value of Assets					
Source: Bolton Partners, Inc., Actuarial Valuation					

## Other Post-Employment Benefits

In the financial statements for FY 2018, the County implemented the provisions of Governmental Accounting Standards Board (GASB) Statement 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions.

The County's OPEB plan is a Cost-Sharing Multiple Employer Defined Benefit Healthcare Plan. Per Section 1.406B of Howard County Bill No. 14-2008, the County established an irrevocable trust for administering the plan assets and paying healthcare costs on behalf of the participants. The Plan includes the County (consisting of the County government, Library, Mental Health Authority and Economic Development Authority), and its component units, Housing Commission, Community College, and Howard County Public School System.

The County provides a post-employment health insurance program in addition to pension benefits. These post-employment benefits are subject to change at any time. All employees who retire from the County may participate in the program. In order to be eligible, the retiree must have a minimum of fifteen years of County service and, immediately preceding retirement, have been enrolled in a medical, vision or prescription drug insurance plan offered to active employees of the County. The County will pay a percentage of the retiree's health insurance premium based upon these criteria. This percentage varies with the number of years of service attained by the employee. Other retirees who do not meet the eligibility criteria are permitted to participate in the retirees' health insurance program by paying the full premium at the group rate. The component units provide medical benefits to eligible employees who retire from employment with the entity. The eligibility requirements vary among different entities. Each entity pays a percentage of the health insurance premium based on certain criteria. In addition to medical benefits, the school system offers life insurance benefits to eligible retirees who have provided ten years of service with the school system and have retired from the Howard County Public School System.

The Plan's funding policy provides for the County to contribute to the trust the actuarially determined annual required contribution. During fiscal year 2018, the County contributed \$16.0 million to the trust. The County budget for fiscal year 2019 includes funding for pay-as-you go OPEB costs as well as \$15.7 million to the trust.

Based on the most recent actuarial valuation which was prepared as of July 1, 2016 and rolled forward to June 30, 2017, the actuarially calculated proportionate share of total OPEB liability as of the measurement date of June 30, 2017 was \$372.0 million and there was \$32.1 million of actuarial plan assets; therefore, the net OPEB liability for the County was \$339.98 million. The plan fiduciary net position as a percentage of the OPEB liability was 8.62%.

	Howard County Government *	Howard County Public Schools	Howard County Community College	Howard County Library	Howard County Housing Commission	Howard County Economic Develop- ment Authority (EDA) **	Total
<b>As of June 30, 2017:</b>							
Total proportion of net OPEB liabilities	\$339,982,857	715,235,479	33,279,623	15,257,767	1,437,326	442,254	\$ 1,105,635,306
Total proportion of OPEB assets	32,066,300	67,459,155	3,138,847	1,439,073	135,565	41,712	104,280,652
Total deferred outflows of resources from OPEB	11,847,542	24,924,146	1,159,711	531,695	50,087	15,411	38,528,592
Total deferred inflows of resources from OPEB	45,832,109	96,418,834	4,486,330	2,056,856	193,762	59,619	149,047,510
<b>For the year ended June 30, 2017:</b>							
Total OPEB expense	25,322,212	53,271,345	2,478,694	1,136,411	107,053	32,939	82,348,654

\* Enterprise fund share of net OPEB liability, OPEB assets, deferred outflows, and deferred inflows is \$18,409,093, \$1,796,503, \$641,510, and \$2,481,677, respectively. The portion allocated to the Howard County Soil Conservation District for net OPEB liability, OPEB assets, deferred outflows, and deferred inflows is \$331,691, \$31,284, \$11,559, and \$44,714, respectively.

\*\* EDA is not included in the CAFR due to immateriality. Also, Housing Commission has a different fiscal year end.

### Actuarial Assumptions

The actuarial methods and significant assumptions used by the actuary are summarized in this note to conform to the disclosure requirements for GASB Statements 75.

Actuarial Cost Method	Entry Age Normal
Projected Cash Flows	Member & County contributions will continue to increase \$3 million per annum. Discount rate of 7.50% was applied to investments in fiscal years 2018 through 2036.
Municipal Bond Rate	3.58% as of 6/30/17 based on the Bond Buyer General Obligation 20-year Bond Municipal Bond Index.
Interest Assumption	Equivalent single discount rate of 3.94% as of 6/30/17
Inflation	2.30%
Long-term Expected Real Rate of Return, Based on Geometric Means	3.27% for Equity investments (based on 65% target allocation) and 1.14% for Fixed Income investments (based on 35% target allocation), or a total of 4.41%
Healthcare Cost Trend Rate	3.90%

## **Accounting for Annual and Disability Leave**

As of June 30, 2018, employees paid from the General Fund, Special Revenue Funds, and Internal Service Funds accrued unused annual leave of \$26.3 million. Unused annual leave for employees paid from the water and sewer enterprise fund was \$889,638. These amounts are based upon the average daily pay rate for the employees at year-end. The annual leave amounts are recognized as liabilities in the County's financial statements. The Disability leave amounts do not vest to the employees and are not reflected as liabilities.

## **Insurance and Risk Management**

The County is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; environmental exposures; and natural disasters. The County, excluding the Howard County Public School System, has established two internal service funds to account for and finance its risks of loss. The County's risk-financing techniques include a combination of risk retention through self-insurance and risk transfer using a risk pool and commercial insurance. The Employee Benefits Self Insurance Fund is administered by the Office of Human Resources and provides full coverage for employee benefits and long-term disability claims. The Risk Management Self Insurance Fund is administered by the Office of Risk Management in the Department of County Administration and provides coverage up to a maximum of \$1 million for each automobile liability claim, \$1 million for each general liability claim, \$100,000 for each property and first party vehicle damage claim and unlimited coverage for each workers' compensation claim.

The County belongs to the Local Government Insurance Trust ("LGIT"), a Maryland governmental insurance pool, which provides insurance for claims in excess of coverage provided by the County's Risk Management Fund. The County pays an annual premium to LGIT for this coverage. The County participates in LGIT in the areas of excess property, general and automobile liability coverages. LGIT was created to provide broader insurance coverages to Maryland's local governmental entities than those available from commercial insurers, coverages which would otherwise be unavailable, and loss control and risk management services. Claims settled by the County in the past five fiscal years have not exceeded the Risk Management Fund's retention to trigger payment by LGIT except for the Bain Center water damage loss on February 18, 2015.

All funds and component units of the County, excluding the Howard County Public School System, participate in the risk management program and make annual payments to the internal service fund. These payments are calculated based on a combination of actuarial estimates and historical cost information. These amounts are needed to pay administrative costs, prior and current year claims and to establish a reserve for future claims and catastrophic losses.

At fiscal year-end, the combined Net Position for the two internal service funds was \$11,775,829 and is reported as unrestricted. The combined claims liability of the two funds, \$18,511,322, is based on generally accepted accounting principles, which require that a liability for claims be reported if information prior to the issuance of the financial

statements indicates that it is probable that a liability has been incurred at the date of the financial statements and the amount of the loss is reasonably estimated.

## **Investment Policy**

The County has established an investment policy that applies to all of its financial assets and can be found at <https://www.howardcountymd.gov/Departments/Finance/Financial-Information/Investments>. This policy invests public funds in a manner that conforms to all applicable State and County statutes while meeting the County's investment objectives. The three prioritized objectives of the County's investment activities are (1) safety of principal through (a) diversification, (b) third-party collateralization and safekeeping and (c) delivery versus payment; (2) liquidity sufficient to meet all reasonably anticipated operating requirements; and (3) return on investment at least equal to the yield on U.S. Treasury bills of comparable duration. The Director of Finance is required to develop and maintain written administrative procedures as well as a system of controls to regulate the operation of the investment program. Compliance with these procedures and controls is audited as part of the County's annual financial audit.

As of June 30, 2018, the County had investments totaling approximately \$607.3 million. Of these investments, none have maturities in excess of one year, other than stripped-coupon U.S. Treasury securities that the County has purchased to provide for the payment of the final installments under its agricultural land preservation installment-purchase agreements. All investments were purchased to be held to maturity, and interest is paid throughout the term except as previously noted. The County has never entered into reverse repurchase transactions, and does not invest in derivatives.

In February 2019, the County's investment policy was updated. The County is a member of the Investment and Treasury Affinity Group of the Maryland GFOA, which periodically brings together public investment officers from large Maryland counties, Baltimore City and the State.

# Capital Requirements and Debt Management

## Capital Projects Funds

The following table presents the sources and uses of funds in the County's Capital Projects Funds over the last five fiscal years.

**Sources and Uses of Capital Projects Funds (000)<sup>(1)</sup>**

	Fiscal Year Ended June 30				
	2014	2015	2016	2017	2018
<b>Source of Funds:</b>					
Proceeds of bonds and notes	\$117,315	\$100,180	\$ 76,490	\$133,925	\$172,332
Proceeds of refunding bonds	15,406	84,015	21,157	140,385	183,686
Bond Premium	11,848	17,523	13,509	43,899	49,186
Capital Leases	-	-	10,058	3,368	11,937
Local transfer tax	16,817	19,353	19,732	23,690	23,641
Pay-as-you-go funding	25,560	-	4,450	-	-
Revenues from other governmental agencies	13,625	14,408	7,147	21,847	23,243
Developer contributions	1,146	3,985	4,377	8,466	1,899
Other	7,743	11,816	9,249	7,655	9,149
Operating transfers in	35,958	21,379	3,491	23,429	25,869
<b>Total Sources</b>	<b>\$245,418</b>	<b>\$272,659</b>	<b>\$169,661</b>	<b>\$406,663</b>	<b>\$500,942</b>
<b>Use of Funds:</b>					
Capital projects expenditures	160,982	171,692	186,875	209,455	196,506
Operating transfers out	17,416	19,980	20,581	20,324	26,446
Payment to refunded bond escrow agent	32,852	93,817	26,441	169,144	219,086
<b>Total Uses</b>	<b>\$211,250</b>	<b>\$285,488</b>	<b>\$233,898</b>	<b>\$398,923</b>	<b>\$442,038</b>
Excess (Deficit) of Sources over Uses	34,167	(12,830)	(64,237)	7,740	58,904
Fund Balance at Beginning of Period	17,858	52,026	39,196	(25,042)	(17,302)
<b>Fund Balance (Deficit) at End of Period</b>	<b>\$52,026</b>	<b>\$39,196</b>	<b>(\$25,042)</b>	<b>(\$17,302)</b>	<b>\$41,602</b>

<sup>(1)</sup> The information in this table should be read in conjunction with the audited basic financial statements which are available at [www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits](http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits).

## Board of Education Capital Projects

The following table presents the sources and uses of funds for the Board of Education’s capital projects for the last five fiscal years.

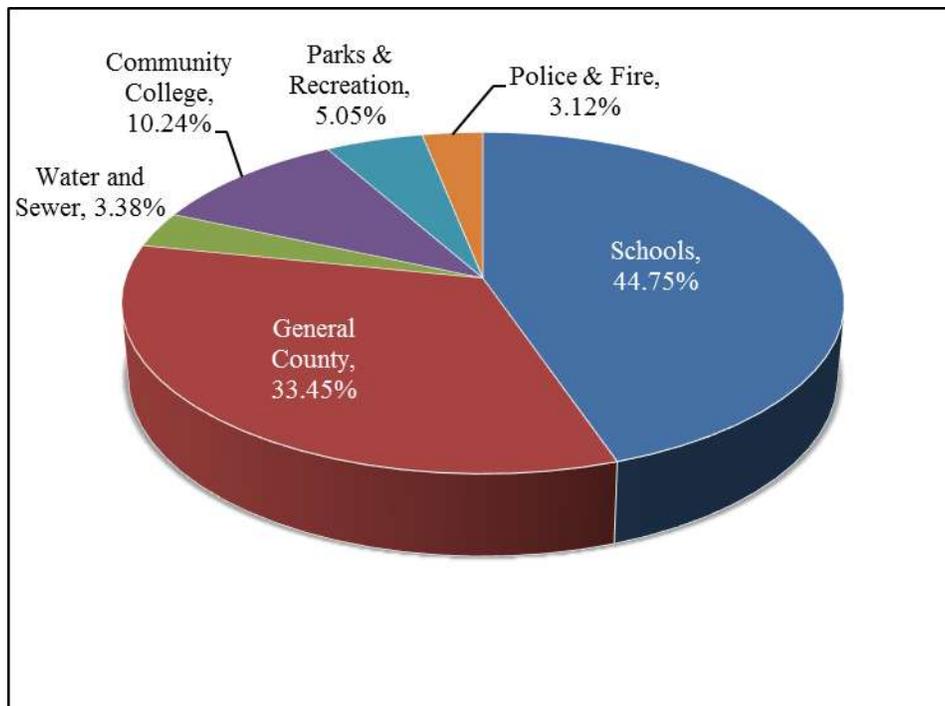
	Fiscal Year Ended June 30				
	2014	2015	2016	2017	2018
<b>Sources of Funds:</b>					
Proceeds of County bonds and notes	\$61,096	\$46,452	\$61,232	\$53,016	\$54,858
Revenues from County and State	25,711	31,636	18,910	37,478	6,741
Other	1	1	8	24	100
<b>Total Sources</b>	<b>\$86,809</b>	<b>\$78,090</b>	<b>\$80,150</b>	<b>\$90,519</b>	<b>\$61,699</b>
<b>Uses of Funds:</b>					
Capital projects expenditures	85,364	80,462	79,066	83,538	63,212
<b>Total Uses</b>	<b>\$85,364</b>	<b>\$80,462</b>	<b>\$79,066</b>	<b>\$83,538</b>	<b>\$63,212</b>
Excess (Deficit) of Sources over Uses	1,445	(2,372)	1,084	6,981	(1,513)
Fund Balance at Beginning of Period	(2,857)	(1,411)	(3,783)	(2,699)	4,282
<b>Fund Balance at End of Period</b>	<b>(\$1,411)</b>	<b>(\$3,783)</b>	<b>(\$2,699)</b>	<b>\$4,282</b>	<b>\$2,769</b>

<sup>(1)</sup> This table should be read in conjunction with the audited basic financial statements of the Board of Education.  
Source: Howard County Public School System Office of Finance

## Composition of Debt

The chart below presents how proceeds of outstanding County bonds were used as of June 30, 2018.

Composition of Issued General Obligation Debt



## Capital Budget and Program

The following table presents the County's adopted capital budget for fiscal year 2019 and program for fiscal years 2020 through 2024.

Capital Budget and Program (000)

Program Title	Authorization			FY2020	FY2021	FY2022	FY2023	FY2024	Total
	Prior	FY2019	Subtotal						
Bridge Improvements	\$19,954	\$2,415	<b>\$22,369</b>	\$1,700	\$1,300	\$300	\$300	-	<b>\$25,969</b>
Storm Drainage	134,979	23,795	<b>158,774</b>	45,625	41,000	38,100	36,600	37,800	<b>357,899</b>
Road Resurfacing	56,127	6,750	<b>62,877</b>	13,750	13,830	13,950	13,830	13,950	<b>132,187</b>
Road Construction	229,530	5,050	<b>234,580</b>	41,530	68,575	14,700	250	3,250	<b>362,885</b>
Sidewalk/Curb Projects	19,165	4,910	<b>24,075</b>	9,625	9,505	8,350	8,500	8,500	<b>68,555</b>
Traffic Improvements	20,778	1,635	<b>22,413</b>	1,580	5,285	3,135	2,135	230	<b>34,778</b>
General County	610,394	12,826	<b>623,220</b>	98,583	80,772	53,746	38,019	32,850	<b>927,190</b>
Fire	50,065	1,200	<b>51,265</b>	6,530	300	300	300	300	<b>58,995</b>
Library	36,927	(5,000)	<b>31,927</b>	1,135	5,699	33,447	2,575	-	<b>74,783</b>
Police	3,600	415	<b>4,015</b>	1,570	3,665	42,811	19,650	1,680	<b>73,391</b>
Recreation & Parks	193,138	10,386	<b>203,524</b>	13,220	8,350	12,150	11,275	4,925	<b>253,444</b>
Agricultural Preservation	170,608	-	<b>170,608</b>	-	-	-	-	-	<b>170,608</b>
Sewer	453,577	(3,236)	<b>450,341</b>	37,320	32,165	15,290	7,285	5,680	<b>548,081</b>
Water	220,260	(473)	<b>219,787</b>	40,319	12,477	11,182	6,914	6,414	<b>297,093</b>
Board of Education	603,735	65,069	<b>668,804</b>	101,960	100,422	105,182	106,299	112,056	<b>1,194,723</b>
Community College	121,904	21,137	<b>143,041</b>	14,676	14,998	27,407	27,809	23,310	<b>251,241</b>
<b>Total</b>	<b>\$2,944,741</b>	<b>\$146,879</b>	<b>\$3,091,620</b>	<b>\$429,123</b>	<b>\$398,343</b>	<b>\$380,050</b>	<b>\$281,741</b>	<b>\$250,945</b>	<b>\$4,831,822</b>

## Debt Management Policy

Section 17-2017 of the Local Government Article of the Annotated Code of Maryland requires each local government unit to adopt by resolution, motion or ordinance a local debt policy consistent with the Maryland Constitution, State law and the Howard County Charter. On October 5, 2009, the County adopted an updated debt management policy that establishes the processes employed in the management of its short- and long-term debt. The policy sets the parameters for issuing debt and managing outstanding debt. It provides guidance to decision makers regarding the timing and purposes for which debt may be issued, types and amounts of permissible debt, method of sale that may be used and structural features that may be incorporated. The County added long-term variable rate debt as an approved type of debt that can be issued. By establishing a debt policy, the County has recognized its binding commitment to full and timely repayment of all debt. The policy ensures that the County maintains a sound debt position and that its credit quality is protected. The policy is available on the County's website at <https://www.howardcountymd.gov/Departments/Finance/Financial-Information/Bonds>.

In addition, the County adopted Build America Bonds ("BABs") – Direct Pay Procedures in March 2010 and Tax-Exempt Issuance Procedures in February 2012. The procedures ensure that the County does not expend bond proceeds for non-eligible costs or projects and establish document retention, semi-annual filing and on-going compliance guidelines.

## Debt Capacity

Pursuant to Article VI of the County Charter and State law, the aggregate amount of bonds and other indebtedness of the County outstanding at any one time may not exceed 4.8 percent of the full market value of real property and personal property located within the County. In computing this percentage under the County Charter and State law, the following are excluded: (1) tax anticipation notes or other debts having a maturity not in excess of 12 months, (2) bonds or other debts issued or guaranteed by the County payable primarily or exclusively from taxes levied on or in, or other revenues of, special taxing areas or districts and (3) bonds and other debts issued for self-liquidating and other projects payable primarily or exclusively from the proceeds of assessments or charges for special benefits or services. Metropolitan District debt, which is payable primarily from water and sewer charges, does not constitute general obligation debt for the purpose of computing such percentage, and there are no other debt limitations applicable to Metropolitan District debt. For the purpose of determining whether refunding bonds issued under such

statute are within the legal debt limitation of the County, the amount of bonds refunded is subtracted from, and the amount of refunding bonds issued is added to, the aggregate of the County's outstanding bonds.

Shown below is a calculation of the County's legal debt capacity as of December 31, 2018, based on the County's estimated assessable base as of December 31, 2018.

<b>Legal Debt Capacity (000)</b>	
Assessable Base at 12/31/2018	\$51,288,169
Assessable base limit on general obligation debt	\$2,461,832
Total outstanding debt to be applied against County Charter limit	\$1,034,345
Additional legal debt capacity	\$1,427,487

## **Description of Debt**

### **Public Improvement Debt**

The County issues public improvement debt to defray the costs of general County capital projects, including storm drainage, fire service, police, road construction, bridge, library, recreation and parks, school, community college, sidewalk and curb, intersection and signal improvement, and community renewal capital projects. Such debt is a general obligation of the County, and the County's full faith and credit and unlimited taxing power are irrevocably pledged to the punctual payment of principal of and interest on such debt when due and payable. Debt service on public improvement debt is payable primarily from general tax revenues; however, building excise taxes, school surcharge, broadband fees, environmental service fees, fire and transfer taxes are also used to pay debt service for certain types of capital projects.

### **Short-Term Construction Financing Program**

The County issues tax-exempt bond anticipation notes (BANs) in order to provide interim financing for a portion of the cost of its ongoing capital projects. The notes are currently in the form of a line of credit and repaid with proceeds of the County's long-term bonds. The County typically issues its long-term bonds once a year in an amount corresponding to the amount expended for capital projects since its last bond sale and uses such bond proceeds to redeem outstanding notes and reimburse the capital projects fund. The outstanding amount of such notes as of March 31, 2019 was \$186.2 million. The County intends to refund the outstanding BANs with this bond issue.

### **Landfill Closure and Post-Closure Care Cost**

State and federal laws and regulations require the County to place a final cap on closed landfill cells and to perform certain maintenance and monitoring functions at cells for 30 years after closure. The County recognizes a portion of these estimated closure and post-closure care costs in each operating budget, based on cell capacity used.

The County ceased using the Alpha Ridge landfill as its primary waste disposal site in 1997, and now exports waste to a regional landfill in Virginia. The closure cap for a 70-acre cell at Alpha Ridge was completed and paid for in 2001. The County does not expect to use the remaining capacity in the foreseeable future.

Closure costs for the existing cell and post-closure care cost for the closed and existing cells at the Alpha Ridge landfill will approximate \$29.9 million. Actual costs may differ due to inflation or future design changes. As of June 30, 2018, the County has recognized \$23.1 million of these costs. The County intends to fund the remaining costs from bond proceeds and its annual Environmental Services Fund budget.

### **Metropolitan District**

The County issues Metropolitan District debt to finance the costs of the County's water and sewer capital projects as well as its share of Baltimore City water and sewer capital projects. Such debt is a general obligation of the County, and its full faith and credit and unlimited taxing power are irrevocably pledged to the punctual payment of principal

of and interest on such debt when due and payable. Debt service on Metropolitan District debt is payable from water and sewer revenues and other revenues.

## **Maryland Water Quality Financing Administration**

Under the Maryland Water Quality Financing Administration’s revolving loan program, the State has four outstanding loans to the County at interest rates that are below market. The loans are tax-exempt obligations that were primarily used to finance the expansion of the Little Patuxent Wastewater Treatment Plant and one financed the Holiday Hills sewer project. As with Metropolitan District debt, such debt is payable from water and sewer revenues and other revenues, but the full faith and credit of the County is also pledged to the payment thereof.

## **Agricultural Land Preservation Program**

Through its agricultural land preservation program, the County finances the acquisition of development rights to a particular parcel of agricultural property by entering into an installment-purchase agreement with the property owner. Historically, under the terms of the installment-purchase agreement, the County paid the property owner semiannual interest payments for up to 30 years, and minimal portions of the installment-purchase price biennially until maturity. The rest of the purchase price for the development rights is paid at the end of the term with a balloon payment. Upon execution of an installment-purchase agreement, the County purchased stripped-coupon U.S. Treasury obligations in amounts sufficient to equal the balloon payment at the maturity of the installment purchase.

Under the current program, the County pays either five or ten percent of the purchase price at closing, with equal annual principal payments over 15 or 20 years with interest. The County acquires the development rights to the land in perpetuity. The County is using the 25 percent portion of the local transfer tax that is dedicated to agricultural land preservation and the County’s share of the State transfer tax on agricultural land to fund this program.

## **Golf Course**

In 1995, the County issued its Special Facility Revenue Bonds, 1995 Series A (the “Series 1995 Bonds”) to finance construction of a public golf course and related facilities. The Series 1995 Bonds were refinanced with the issuance by the County of its Golf Course Refunding Revenue Bonds, 2003 Series A (the “Series 2003 Bonds”). In May 2012, the Series 2003 Bonds were redeemed by the County with issuance and sale of its Taxable Golf Course Refunding Revenue Note (Timbers at Troy Golf Course), Series 2012 (the “Series 2012 Note”), which was privately negotiated with a financial institution. Payment of the Series 2012 Note is secured by a pledge by the County of gross revenues generated by the golf course facility and a debt service reserve fund. If a deficiency exists in the debt service reserve fund, the County is obligated to restore the amount in such debt service reserve fund to the debt service reserve requirement of \$560,000 within 90 days, until the note has been paid in full. The County has never had to replenish the debt service reserve fund due to any deficiency. The Series 2012 Note and the obligations payable thereunder do not constitute a pledge of the County's full faith and credit or taxing power. The County's covenant to replenish the debt service reserve fund and to maintain the facility in first class operating condition is a general contractual obligation of the County. In fiscal years 2011, 2012, 2014, 2017 and 2018, the County General Fund subsidized a portion of the golf course maintenance expenses.

## **Capital Leases**

The County maintains leasing agreements with Banc of America Public Finance, KeyBank, SunTrust, TD Asset Management Funds, and Zions Bank for financing the acquisition of equipment. These lease agreements qualify as capital leases for accounting purposes, and have been recorded at the present value of their future minimum lease payments as of the inception date. The future minimum lease obligations total \$39,436,400, and the net present value of these minimum lease payments as of June 30, 2018 is \$35,011,551.

## **Overlapping Debt**

There are no incorporated towns, villages, municipalities or other subdivisions within the County boundaries having separate taxing authority. Thus there is no overlapping municipal debt in the County. However, the Columbia Association does have authority to issue debt which is funded via a fee. (See “Demography and Economy, Columbia” herein.)

## Tax Increment Financing

On March 11, 2014 the County issued its first Special Obligation Tax Increment Financing (TIF) Bonds in the amount of \$17 million, with an overall true interest cost of 6.148%. The proceeds were used to construct a 704-space parking garage on 12.73 acres of land dedicated for commuter rail patrons. The County had previously designated the 12.73 acres as a Tax Increment Financing District, at the site of the MARC Savage Commuter Rail Station. The land is state-owned, thus no real property taxes were paid to the County for this property. However, County management anticipates opportunities for local economic development by putting tax-exempt property on the local tax roll while improving transportation infrastructure.

A companion special tax district has been created as a backup for the Special Obligation TIF bonds. Special taxes will be imposed on property owners located within the special tax district in any year where the tax increment collections are lower than the next year's debt service obligation and TIF District expenses. The special taxes are also to be pledged for the repayment of the Special Obligation TIF bonds.

These bonds are not general obligation bonds of the County; rather they are special obligations of the County payable solely from the real property tax increment to be realized from the TIF District, any special taxes imposed and collected from the companion Special Tax District, and any Base Realignment and Closure (BRAC) Zone payments awarded by the State of Maryland. The project was approved for designation as a BRAC Zone in June 2009. The total amount of pledged revenue is \$34,471,535. A reserve fund in the amount of \$1,678,465 was established as part of the debt issuance. This reserve will not be available for other purposes until the final maturity of the bonds in fiscal year 2044. Additionally, as of fiscal year end, \$10,171 is held by an escrow agent for fiscal year 2018 debt service. Pledged revenues of \$398,528 were recognized in fiscal year 2018. The outstanding debt of \$16,940,000 is included in the primary government's long-term debt on the Statement of Net Position.

The bond offering is part of an overall Public Private Partnership (P3) development project known as Annapolis Junction Town Center. When completed, the entire development project will be a comprehensive mixed-use State Transit-Oriented Development (TOD) and will include 100,000 square feet of Class A office space, 416 luxury apartment units, a 150-room hotel, 17,250 square feet of retail space and the 704-space parking garage (financed by the TIF). The project will also include two additional parking garages, to be funded privately, to separately support parking needs for businesses and residents.

On October 19, 2017, the County issued \$48,225,000 of Howard County, Maryland Special Obligation Bonds (Downtown Columbia Project), Series 2017 A. The total amount of pledged revenue is \$87,385,911. A reserve fund in the amount of \$3,921,283 was established as part of the debt issuance. This reserve will not be available for other purposes until the final maturity of the bonds in fiscal year 2047. Additionally, as of fiscal year end, \$2,115,880 is being held by an escrow agent for fiscal year 2019 debt service. Pledged revenues of \$2,297,099, were recognized in fiscal year 2018. The outstanding debt of \$48,225,000 is included in the primary government's long-term debt on the Statement of Net Position.

The development project consists of the redevelopment of a portion of the downtown area in the unincorporated master-planned community of Columbia, Maryland, one of the first master-planned communities in the United States. Downtown Columbia consists of an approximately 391-acre downtown area in Columbia designated by the County Council and the County Executive of the County for development in the Downtown Columbia Plan, on February 3, 2010. Recognizing that additional housing in Downtown Columbia is fundamental to the economic future of Columbia, the Downtown Columbia Plan recommends the development of an aggregate total of up to 6,244 additional residential units of which, 656 to 2,296 units have been allocated to the Initial Stage of the Downtown Columbia Plan. The Downtown Columbia Plan also recommends the development of an aggregate total of 1.25 million square feet of retail (of which 300,000 to 676,446 square feet have been allocated to the Initial Stage of the Downtown Columbia Plan), 4.3 million square feet of office (of which amount 1,000,000 to 1,513,991 square feet have been allocated to the Initial Stage of the Downtown Columbia Plan), and 640 additional hotel rooms (at least 100 of which have been allocated to the Initial Stage of the Downtown Columbia Plan) to serve the present and future needs of the community, as well as connected street networks, upgraded major intersections, and structured parking to accommodate future uses and promote a "park-once" approach.

## Conduit Debt

From time to time, the County has issued Industrial Revenue Bonds, Economic Revenue Development Bonds, Multi-family Rental Housing Revenue Bonds, Retirement Community Revenue Bonds and Recovery Zone Facility Revenue Bonds to provide financial assistance to private-sector entities for the acquisition and construction of industrial and

commercial facilities deemed to be in the public interest. The bonds are secured by the property financed and are payable solely from payments received on the underlying mortgage loans. Upon repayment of the bonds, ownership of the acquired facilities transfers to the private-sector entity served by the bond issuance. Neither the County, the State nor any political subdivision thereof is obligated in any manner for repayment of the bonds. Accordingly, the bonds are not reported as liabilities in the County's financial statements.

At fiscal year-end, there were 20 series of conduit debt outstanding. The aggregate principal amount outstanding for the 11 series issued after July 1, 1996 was \$95,725,062. The aggregate principal amount outstanding for the 9 series issued prior to June 30, 1996 could not be determined; however, their original issue amounts totaled \$59,155,000.

The Howard County Housing Commission issued \$13,655,000 Lease Revenue Bonds (Roger Carter Recreation Center) in December 2011. The Commission used the proceeds of the Bonds to finance a portion of the costs of the design, development, construction, and equipping of a recreation center, an indoor swim center facility, and parking deck and related structures and site improvements located on Ellicott Mills Drive in Ellicott City in the County. The Project was constructed on an approximately 4.8-acre parcel of land owned by the Commission. The Commission and the County entered into a Lease Agreement dated as of December 1, 2011, under which the Commission will lease the Project and the Leased Premises to the County. The Lease Agreement requires the County to make lease payments, which are calculated to be sufficient to pay when due the principal of and interest on the Bonds. The Lease Agreement is not a general obligation of the County and does not constitute a pledge of the faith and credit or the taxing powers of the County.

## **Public Private Partnership (P3) Agreement**

On October 16, 2018, the County executed a Project Agreement with Edgemoor-Star America Judicial Partners (ESJP) for the demolition of the Dorsey Building located at 9250 Judicial Way in Ellicott City and the construction and 30-year maintenance of an approximately 240,000 square foot circuit courthouse and a 690-space parking garage. The County is expected to take occupancy and make a \$75 million milestone payment in June 2021. Annual availability payments, consisting of a fixed capital charge of \$6.6 million and a \$3.3 million facility management charge, subject to CPI escalation, will be made FY2022 through FY2057. The facility management charge is subject to unavailability and performance failure deductions.

# Outstanding Long-Term Debt

As of December 31, 2018, the County had outstanding long-term debt presented below.

	Dated Date	Issued (\$000)	Outstanding (\$000) <sup>(1)</sup>	Interest Rates	Final Maturity
Consolidated Public Improvement Project and Refunding, Series A	02/01/04	112,305	7,995	2.00 - 5.00	08/15/19
Consolidated Public Improvement, Series A	04/08/09	69,720	3,265	3.50 - 5.00	04/15/29
Consolidated Public Improvement Refunding, Series B	12/08/09	85,860	37,545	3.25 - 5.00	08/15/22
Consolidated Public Improvement, Series A	03/16/10	49,015	8,500	3.00 - 5.00	02/15/23
Consolidated Public Improvement BABs, Series C <sup>(2)</sup>	03/16/10	39,405	39,405	5.00 - 5.55	02/15/30
Consolidated Public Improvement, Series A	03/09/11	111,115	4,900	4.00 - 5.00	02/15/31
Public Improvement and Refunding, Series B	11/17/11	182,055	90,040	3.00 - 5.00	08/15/31
Consolidated Public Improvement, Series A	03/20/12	37,370	1,640	2.00 - 4.00	02/15/32
Public Improvement and Refunding, Series A	03/19/13	97,910	7,660	2.38 - 5.00	02/15/33
Consolidated Public Improvement Project and Refunding, Series A	04/03/14	117,125	32,205	3.00-5.00	02/15/34
Consolidated Public Improvement Project and Refunding, Series A	04/22/15	184,195	124,400	3.00-5.00	02/15/35
Consolidated Public Improvement Project and Refunding, Series A	03/30/16	96,040	90,625	3.00-5.00	02/15/36
Consolidated Public Improvement Taxable, Series B	03/30/16	1,730	1,730	2.00	02/15/21
Consolidated Public Improvement, Series A	04/25/17	133,925	128,720	3.00 - 5.00	02/15/37
Consolidated Public Improvement Refunding, Series B	04/25/17	140,385	140,385	5.00	02/15/37
Consolidated Public Improvement Refunding, Series D	12/21/17	184,440	184,415	3.00 - 5.00	02/15/34
Consolidated Public Improvement Refunding, Series A	04/04/18	140,980	129,890	3.00 - 5.00	02/15/38
Consolidated Public Improvement Taxable, Series B	04/04/18	1,025	<u>1,025</u>	3.00	02/15/38
<b>Total Long-Term Public Improvement Debt</b>			<b>\$1,034,345</b>		
Maryland Water Quality Financing Administration	10/18/00	34,000 <sup>(3)</sup>	8,147	2.40	02/01/22
Maryland Water Quality Financing Administration	01/29/02	22,000 <sup>(3)</sup>	6,866	2.00	02/01/24
Maryland Water Quality Financing Administration	10/01/08	1,089	646	2.30	02/01/29
Metropolitan District, Series A	04/08/09	26,240	1,255	2.81 - 5.00	04/15/29
Maryland Water Quality Financing Administration	11/19/09	3,500	2,297	1.00	02/01/31
Metropolitan District Refunding, Series B	12/08/09	7,255	6,450	1.00 - 4.00	08/15/30
Metropolitan District, Series A	03/09/11	49,990	1,140	4.00 - 4.75	02/15/41
Metropolitan District Project and Refunding, Series B	11/17/11	36,245	15,110	3.00 - 5.00	08/15/41
Metropolitan District, Series A	03/20/12	19,970	1,300	3.00 - 4.00	02/15/37
Metropolitan District Project and Refunding, Series A	03/19/13	39,155	17,190	3.00 - 4.00	02/15/38
Metropolitan District Project and Refunding, Series A	04/03/14	22,055	9,490	2.00 - 4.00	02/15/44
Metropolitan District Project and Refunding, Series A	04/22/15	31,015	23,645	2.00 - 5.00	02/15/45
Metropolitan District Project and Refunding, Series A	03/30/16	26,190	25,270	3.00-5.00	02/15/46
Metropolitan District Project and Refunding, Series C	04/25/17	81,515	80,460	3.00 - 5.00	02/15/47
Metropolitan District Refunding, Series E	12/21/17	56,075	55,425	3.00 - 5.00	02/15/44
Metropolitan District Project and Refunding, Series C	04/04/18	38,150	<u>38,150</u>	2.50 - 5.00	02/15/48
<b>Total Water and Sewer Enterprise Fund Debt<sup>(4)</sup></b>			<b>\$292,841</b>		
Agricultural Land Preservation Program <sup>(5)</sup>	1989-2017	112,359	43,575	2.19 - 8.60	02/15/35
Golf Course Refunding Revenue <sup>(6)</sup>	05/30/12	5,400	2,468	2.475	08/15/22
Special Obligation (Annapolis Junction TIF)	03/11/14	17,000	16,940	4.80 - 6.10	02/15/44
Special Obligation (Downtown Columbia TIF)	10/19/17	48,225	<u>48,225</u>	4.00 - 4.50	02/15/47
<b>Total Special Revenue Funds, Other Enterprise Fund and Special Obligation Debt</b>			<b>\$111,208</b>		

(1) The outstanding amounts do not include bonds to be redeemed with the proceeds of refunding bonds previously issued by the County; such bonds to be redeemed are not considered as outstanding debt of the County for debt limitation purposes.

(2) The gross interest rate and debt service are shown, the County expects to receive a Federal Subsidy of \$6,320,000.

(3) This amount is the maximum that the County is authorized to draw down from the Maryland Water Quality Financing Administration.

(4) The payment of the principal of and interest on this debt is to be made first from certain charges the County is authorized to levy within the Metropolitan District, but the full faith and credit of the County are also unconditionally pledged to such payment.

(5) This amount does not include a portion of these obligations in the aggregate principal amount of \$50,718,000, which will be paid in fiscal years 2019-2028 with proceeds of U.S. Treasury obligations purchased by the County.

(6) These bonds do not constitute a pledge of the County's full faith and credit or taxing power, but the County's covenant to restore the amount in the debt service reserve fund is a general contractual obligation of the County.

## Schedules of Long-Term Debt Principal and Interest Payments

The following table presents the principal and interest payments for the County's long-term public improvement debt as of December 31, 2018. Debt service on the Public Improvement Bonds is shown in Appendix C.

### Debt Service on Long-Term Consolidated Public Improvement Debt (000)

Fiscal Year	Principal <sup>(1)</sup>	Interest	Subsidy <sup>(2)</sup>	Total
2019	\$32,475	\$23,484	(\$363)	\$55,596
2020	65,200	44,629	(726)	109,103
2021	67,095	41,478	(726)	107,847
2022	70,315	38,335	(726)	107,924
2023	74,530	34,995	(726)	108,799
2024	74,610	31,419	(726)	105,304
2025	73,150	27,743	(637)	100,256
2026	70,060	24,373	(545)	93,888
2027	67,285	21,135	(446)	87,974
2028	64,060	17,944	(344)	81,660
2029	60,080	14,872	(235)	74,717
2030	57,295	12,170	(121)	69,345
2031	53,295	9,614	-	62,909
2032	47,325	7,194	-	54,519
2033	40,850	5,560	-	46,410
2034	35,785	4,006	-	39,791
2035	29,425	2,795	-	32,220
2036	23,315	1,835	-	25,150
2037	18,675	1,011	-	19,686
2038	9,520	321	-	9,841
<b>Totals</b>	<b>\$1,034,345</b>	<b>\$364,912</b>	<b>(\$6,320)</b>	<b>\$1,392,937</b>

(1) Includes mandatory sinking fund redemption payments on term bonds.

(2) BABs subsidy is subject to a reduction of 6.2% due to sequestration

The Internal Revenue Service released guidance stating that due to federal budget sequestration, federal direct credit subsidies for ARRA bonds are subject to reduction beginning October 1, 2018 and extending until September 30, 2019. The amount of the reduction is 6.2% of the February 15, 2019 and August 15, 2019 interest payments, or approximately \$22,501 each.

The following table presents the principal and interest payments for the County's self-liquidating long-term debt, as of December 31, 2018. Debt service on the Metropolitan District Bonds is shown in Appendix C.

**Debt Service on Self-Liquidating Long-Term Debt (000)**

Fiscal Year	Water and Sewer Enterprise Fund (Metropolitan District and Water Quality Financing Administration) <sup>(1)</sup>			Agricultural Land Preservation Program <sup>(2)</sup>			Special Recreation Facility (Golf Course) Enterprise Fund		
	Principal <sup>(3)</sup>	Interest	Total	Principal	Interest	Total	Principal	Interest	Total
2019	\$12,198	\$5,560	\$17,758	\$809	\$2,509	\$3,318	\$251	\$25	\$276
2020	14,872	10,670	25,543	17,060	4,709	21,769	510	49	559
2021	13,413	10,163	23,576	17,839	3,454	21,292	522	36	558
2022	13,595	9,632	23,227	7,108	2,346	9,454	535	23	558
2023	11,964	9,089	21,053	3,358	2,108	5,466	650	3	653
2024	11,282	8,585	19,867	13,588	2,024	15,612	-	-	-
2025	11,112	8,083	19,195	3,358	1,155	4,513	-	-	-
2026	11,485	7,565	19,050	3,919	1,054	4,972	-	-	-
2027	11,809	7,030	18,838	8,583	771	9,354	-	-	-
2028	11,452	6,500	17,951	5,496	509	6,005	-	-	-
2029	11,942	5,983	17,925	3,338	286	3,624	-	-	-
2030	10,430	5,529	15,959	2,924	205	3,129	-	-	-
2031	10,726	5,125	15,851	2,924	132	3,055	-	-	-
2032	10,650	4,702	15,352	997	79	1,075	-	-	-
2033	10,800	4,267	15,067	730	59	789	-	-	-
2034	10,815	3,904	14,719	730	43	773	-	-	-
2035	11,015	3,537	14,552	621	28	649	-	-	-
2036	11,225	3,173	14,398	380	16	396	-	-	-
2037	11,600	2,798	14,398	380	8	387	-	-	-
2038	10,220	2,411	12,631	155	2	156	-	-	-
2039	8,595	2,065	10,660	-	-	-	-	-	-
2040	8,880	1,780	10,660	-	-	-	-	-	-
2041	9,185	1,481	10,666	-	-	-	-	-	-
2042	6,705	1,170	7,875	-	-	-	-	-	-
2043	5,825	953	6,778	-	-	-	-	-	-
2044	6,025	756	6,781	-	-	-	-	-	-
2045	5,500	551	6,051	-	-	-	-	-	-
2046	4,230	362	4,592	-	-	-	-	-	-
2047	3,225	205	3,430	-	-	-	-	-	-
2048	2,065	83	2,148	-	-	-	-	-	-
	<b>\$292,841</b>	<b>\$133,712</b>	<b>\$426,554</b>	<b>\$94,293</b>	<b>\$21,496</b>	<b>\$115,789</b>	<b>\$2,468</b>	<b>\$136</b>	<b>\$2,604</b>

(1) Excludes administrative fees of five percent of total debt service over the total loan period for the Water Quality Financing Administration debt.  
(2) This amount includes obligations in the aggregate principal amount of \$50,788,000 which will be paid in fiscal years 2019 - 2028 with proceeds of U.S. Treasury obligations purchased by the County.  
(3) Includes mandatory sinking fund redemption payments on term bonds rounded to the nearest dollar.

The following table presents the principal and interest payments for the County's special obligation long-term debt, as of December 31, 2018.

**Debt Service on Special Obligation Long-Term Debt**

Fiscal Year	Special Obligation (Annapolis Junction TIF)			Special Obligation (Downtown Columbia TIF)		
	Principal	Interest	Total	Principal	Interest (1)	Total
2019	\$65,000	\$504,843	\$569,843	-	-	-
2020	90,000	1,006,565	1,096,565	-	\$2,102,219	\$2,102,219
2021	115,000	1,002,245	1,117,245	200,000	2,102,219	2,302,219
2022	145,000	996,725	1,141,725	100,000	2,094,219	2,194,219
2023	175,000	989,765	1,164,765	100,000	2,090,219	2,190,219
2024	205,000	981,365	1,186,365	485,000	2,086,219	2,571,219
2025	240,000	971,525	1,211,525	465,000	2,066,819	2,531,819
2026	275,000	957,605	1,232,605	875,000	2,048,219	2,923,219
2027	315,000	941,655	1,256,655	1,100,000	2,013,219	3,113,219
2028	360,000	923,385	1,283,385	1,175,000	1,969,219	3,144,219
2029	405,000	902,505	1,307,505	1,250,000	1,922,219	3,172,219
2030	455,000	879,015	1,334,015	1,325,000	1,870,656	3,195,656
2031	510,000	852,625	1,362,625	1,400,000	1,816,000	3,216,000
2032	565,000	823,045	1,388,045	1,475,000	1,758,250	3,233,250
2033	625,000	790,275	1,415,275	1,575,000	1,697,406	3,272,406
2034	690,000	754,025	1,444,025	1,650,000	1,632,438	3,282,438
2035	760,000	714,005	1,474,005	1,750,000	1,564,375	3,314,375
2036	835,000	667,645	1,502,645	1,850,000	1,487,813	3,337,813
2037	915,000	616,710	1,531,710	1,925,000	1,406,875	3,331,875
2038	1,005,000	560,895	1,565,895	2,050,000	1,322,656	3,372,656
2039	1,095,000	499,590	1,594,590	2,725,000	1,232,969	3,957,969
2040	1,195,000	432,795	1,627,795	2,900,000	1,113,750	4,013,750
2041	1,300,000	359,900	1,659,900	3,125,000	983,250	4,108,250
2042	1,410,000	280,600	1,690,600	3,350,000	842,625	4,192,625
2043	1,530,000	194,590	1,724,590	3,600,000	691,875	4,291,875
2044	1,660,000	101,260	1,761,260	3,850,000	529,875	4,379,875
2045	-	-	-	4,125,000	356,625	4,481,625
2046	-	-	-	3,650,000	171,000	3,821,000
2047	-	-	-	150,000	6,750	156,750
	<b>\$16,940,000</b>	<b>\$18,705,158</b>	<b>\$35,645,158</b>	<b>\$48,225,000</b>	<b>\$40,979,975</b>	<b>\$89,204,975</b>

(1) Excludes interest payments totaling \$2,102,219 covered by the capitalized interest fund in fiscal year 2019.

## Rapidity of Long-Term Debt Principal Repayment

The following table analyzes how much of the County's long-term public improvement debt outstanding as of December 31, 2018 and May 29, 2019 is scheduled to be repaid over 20 years.

### Rapidity of Consolidated Public Improvement Debt Principal Repayment

On or before Fiscal Year	Before Issuance of 2019 Bonds		On or before Fiscal Year	After Issuance of 2019 Bonds	
	Amount (\$000)	% of Outstanding		Amount (\$000)	% of Outstanding
2023	309,615	29.93%	2024	370,965	33.36%
2028	658,780	63.69%	2029	729,985	65.65%
2033	917,625	88.72%	2034	995,190	89.50%
2038	1,034,345	100.00%	2039	1,111,895	100.00%

The following table analyzes how much of the County's long-term water and sewer enterprise fund debt outstanding as of December 31, 2018 and May 29, 2019 is scheduled to be repaid over a maximum of 30 years.

### Rapidity of Metropolitan District Debt Principal Repayment

On or before Fiscal Year	Before Issuance of 2019 Bonds		On or before Fiscal Year	After Issuance of 2019 Bonds	
	Amount (\$000)	% of Outstanding		Amount (\$000)	% of Outstanding
2023	66,043	22.55%	2024	71,142	20.85%
2028	123,183	42.06%	2029	135,827	39.82%
2033	177,731	60.69%	2034	198,368	58.15%
2038	232,606	79.43%	2039	261,978	76.80%
2043	271,796	92.81%	2044	311,328	91.26%
2048	292,841	100.00%	2049	341,133	100.00%

## Long-Term Debt Ratios

The following table presents the County's net long-term public improvement debt per capita and ratios of net long-term public improvement debt to assessed value and to per capita personal income at the end of the last five fiscal years.

### Long-Term Consolidated Public Improvement Debt Ratios

Fiscal Year Ended June 30	Net Long-Term Debt (000)	Estimated Population (000) <sup>(1)</sup>	Assessed Value (000)	Per Capita	Net Long-Term Debt	
					As % of Assessed Value	As % of Personal Income <sup>(2)</sup>
2018	\$1,064,880	321	\$51,518,005	3,316	2.1	4.66
2017	1,012,915	317	49,626,809	3,193	2.0	4.49
2016	959,245	317	47,641,613	3,030	2.0	4.26
2015	945,305	305	45,731,165	3,095	2.1	4.45
2014	906,780	302	44,552,142	3,001	2.0	4.41

(1) Source: Howard County Department of Planning and Zoning.

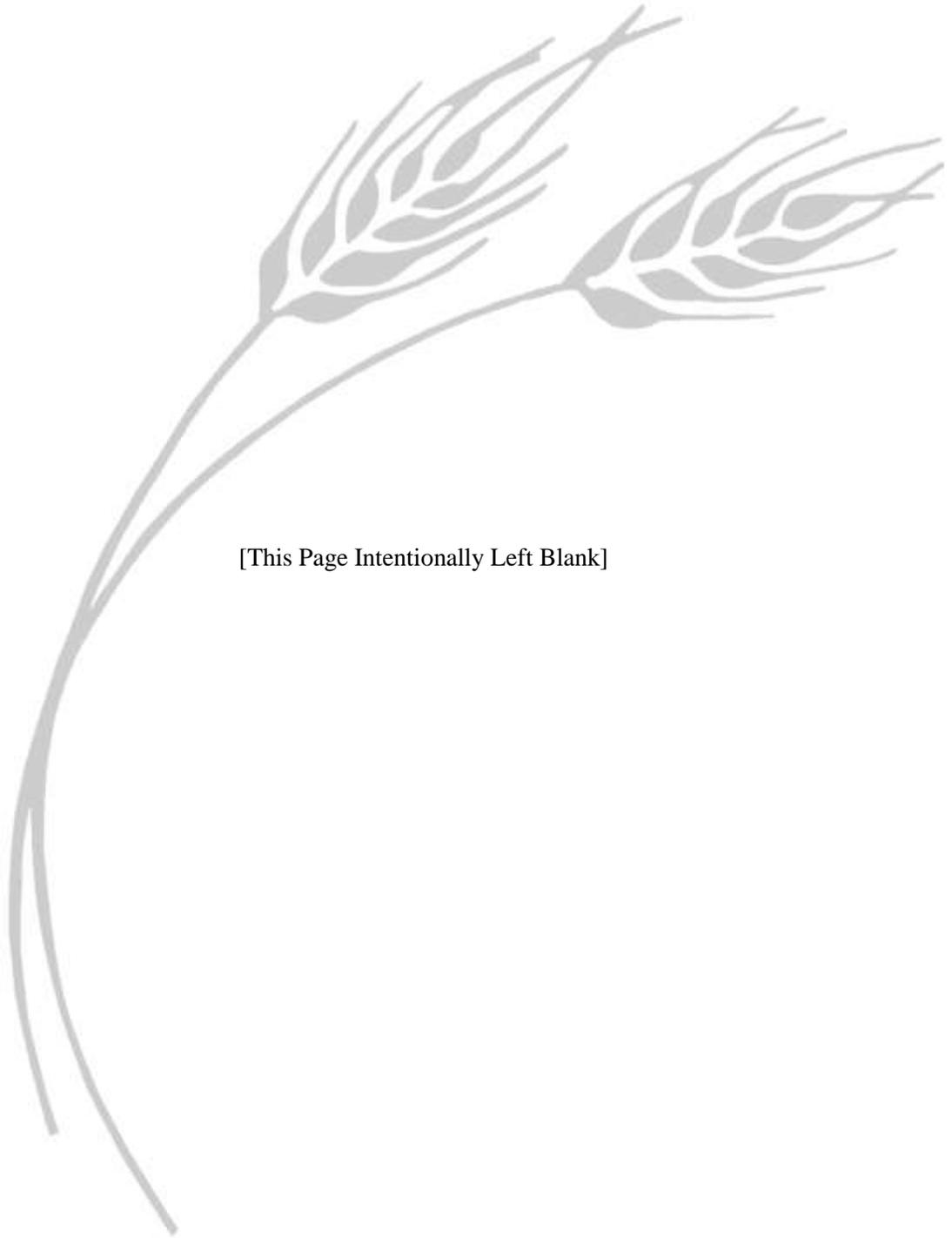
(2) Source: Howard County Budget Office

The following table presents the County's debt service expenditures for long-term public improvement debt as a percentage of current revenues. The County policy is to limit debt service to 10% or less of current revenues in the General, Environmental Services and Fire Tax Funds.

<b>Fiscal Year Ended June 30</b>	<b>Public Improvement Debt Principal (000)</b>	<b>Public Improvement Debt Interest (000)</b>	<b>Public Improvement Debt Service (000)</b>	<b>Current Revenues (000)</b>	<b>Debt Service as % of Current Revenues</b>
2019 Budget	\$63,010	\$46,709	\$109,719	\$1,275,455	8.60
2018	60,901	39,057	99,957	1,187,664	8.42
2017	65,452	40,821	106,273	1,161,948	9.15
2016	65,702	39,911	105,612	1,168,111	9.04
2015	58,735	40,157	98,892	1,118,247	8.84
2014	58,415	38,620	97,035	1,050,393	9.24

## **Future Financing Plans**

The County's debt policy is circumscribed by the legal debt margin for general obligation indebtedness established in the County Charter. In addition, the County's budget policy is reviewed annually by a committee of financially experienced residents that recommends the amount of debt that the County can afford. As of June 30, 2018, the County had authorized, unissued General County Bonds of \$427,089,281, Metropolitan District Bonds of \$261,991,194 and Tax Increment Finance Bonds at fiscal year-end of \$71,775,000. These amounts include bonds authorized to redeem the \$186.2 million in outstanding short-term construction financing debt. It is the County's intent to use such unissued bonds to fund future capital projects. The County currently expects to authorize \$85 to \$105 million of public improvement bonds annually for new capital projects identified in the annual Capital Budget and annually issue approximately \$25 to \$50 million of Metropolitan District. Where direct benefits from capital improvements can be identified to specific users, the County intends to finance such improvements from user charges.



[This Page Intentionally Left Blank]

# Government and Infrastructure

## General

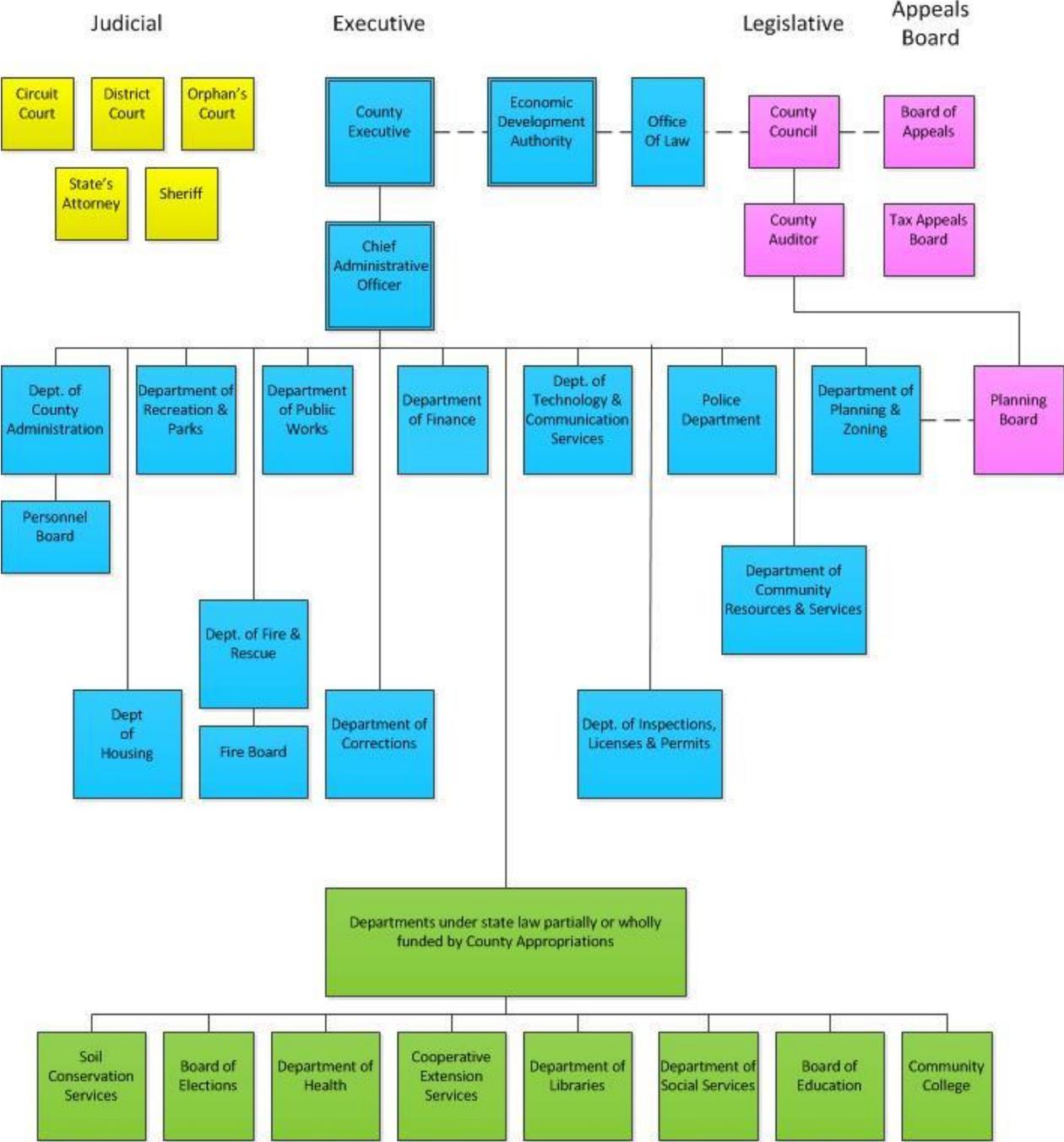
Under the County Charter adopted in 1968, the County's executive functions are vested in the elected County Executive, who is the chief executive officer of the County and is responsible for the proper and efficient administration of the affairs of the County. The Council, which consists of five members elected by district, is the County's legislative body. The County Executive is limited to two consecutive four-year terms, and Council members are limited to three consecutive four-year terms.

Each Council member has one vote, and a simple majority vote is sufficient to pass ordinary legislation. Emergency bills require the vote of two-thirds of the members of the Council as do Council actions to override a veto by the County Executive. A majority of the members of the Council constitute a quorum for the transaction of business, except that for emergency sessions two-thirds of the members of the Council are required. Except as otherwise provided in the County Charter, all laws stand enacted upon approval by the County Executive and take effect 60 days after their enactment, unless by affirmative vote of two-thirds of the members of the Council any such law is declared to be effective on a later date or is declared an emergency measure affecting the public health, safety and welfare, in which event it is effective from the date of its enactment. The Council elects a Chairperson and a Vice Chairperson from its membership at its first meeting in December of each year.

The Chief Administrative Officer performs such duties and exercises such general supervision over the offices and departments of the County government as the County Executive may direct and the Charter specifies. The Chief Administrative Officer acts as the chief budget officer, personnel officer, purchasing agent and central services officer of the County. In addition, the Chief Administrative Officer has been designated to perform the duties of the County Executive during the temporary inability of the County Executive to perform by reason of absence from the County or disability. County financial matters are administered through the Department of Finance by the Director of Finance. The Director of Finance is charged with the administration of the financial affairs of the County, which generally include the collection of State and County taxes, special assessments, Metropolitan District charges, fees and other revenues and funds of every kind due to the County; the enforcement of the collection of taxes in the manner provided by law; the custody and safekeeping of all funds and securities belonging to or by law deposited with, distributed to or handled by the County; the disbursement of County funds; the keeping and supervision of all accounts; the control of all expenditures on the basis of budgetary appropriations and allotments; the preparation of bond sales and advising on debt management; and such other functions as may be prescribed by directive of the County Executive or by legislative act of the Council.

The County Solicitor is appointed by the County Executive subject to confirmation by the Council. All other officials of the County government are appointed by, and serve at the pleasure of, the County Executive.

# Howard County Government Organizational Chart



## Executive, Administrative, Legislative and Education Officials

### Executive

The Honorable *Dr. Calvin Ball* was elected November 6, 2018 to serve as Howard County's 10<sup>th</sup> County Executive. He is a Maryland native and Columbia resident, where he and his wife Shani Ball, RN, BSN are proud parents of two daughters who attend Howard County Public Schools. Dr. Ball holds a Bachelor of Arts in Philosophy and Religion from Towson State University, Master of Arts in Legal and Ethical Studies from the University of Baltimore, and Doctor of Education from Morgan State University, where he also taught doctoral level courses in topics including finance and budgeting as well as planning and management.

He made history in 2006 when he was elected as the youngest Council Chairperson in Howard County history. As County Executive, Dr. Ball remains dedicated to making our community a better, brighter place for future generations, while respecting taxpayer dollars and exercising sound fiscal management. Dr. Ball, a dedicated educator and certified mediator, continuously works to collaborate with all community stakeholders to create the very best Howard County for all.

Dr. Ball has been honored with numerous awards including the Michaeline R. Fedder Award for Public Health Legislator of 2015, the Marilyn J. Praisner Public Service Award, Daily Record's 2014 Very Important Professionals Successful by 40 Award, William Donald Schaefer Helping People Award, Louis Goldstein Award for Democratic Spirit, the Kittleman Award for Legislative Leadership, Community Champion of the Year Award, Jenkins Odoms, Jr., Freedom Fighter Award, Richard C. McCauley Transformative Leader Award, Humanitarian Award, and 2018 Senator James Clark Award.

*Sameer Sidh* was appointed Chief of Staff effective December 3, 2018 after serving as Chief of Staff at Towson University. In the Chief of Staff position at TU, Mr. Sidh led planning, coordination, and project management of presidential-initiated efforts, and worked closely with the university's leadership team to "boundary span" across university divisions to ensure alignment of objectives and budget.

Mr. Sidh came to Towson University from the Office of the Mayor of Baltimore City, where he served as the Director of the Mayor's Office of Citistat. In his tenure as director, Mr. Sidh drove significant productivity and transparency improvements through increased communications and convening cross-agency and cross-sector workgroups.

Prior to serving as the Director of Citistat, Mr. Sidh worked as the Deputy Chief of Staff for the Maryland Department of Transportation where he held a position on the senior executive team of a 9,000-employee department collaborating on policy direction with senior management. He also previously served as both Acting Director and Deputy Director of the StateStat in the Office of the Governor.

Mr. Sidh holds a J.D. from the University of Baltimore School of Law, and is a member of the Maryland State Bar. He earned his bachelor's degree in political science from James Madison University.

### Administrative

*Lonnie R. Robbins* was appointed Chief Administrative Officer effective January 3, 2007 after serving as Deputy Chief Administrative Officer since 2004. Mr. Robbins has served as both a Senior Assistant County Solicitor and Assistant County Solicitor in the Howard County Office of Law. He has also worked as the procurement advisor for the Maryland State Board of Public Works, Administrator for Maryland State Department of General Services, and executive aide for the Office of Governor Harry R. Hughes. Mr. Robbins received his B.S. degree in Business and Public Administration from the University of Maryland and a J.D. degree from the University of Baltimore. Mr. Robbins is active in Howard County and Maryland State Bar Associations, Leadership Howard County and First Tee of Howard County. Mr. Robbins was recently appointed by Governor Larry Hogan to the Board of Trustees of the Maryland Automobile Insurance Fund.

*Janet Irvin* was appointed Director of Finance effective January 29, 2018. Ms. Irvin previously served as Chief Financial Officer for the Maryland Environmental Service (MES) since 2013. Additionally, she served as Treasurer for MES's Board of Directors. Ms. Irvin previously served for six years as Deputy Director for the Office of Finance at the Maryland State Highway Administration (SHA) in Baltimore. Prior to serving in state government, she worked in Howard County Government for 14 years, first as a payroll supervisor and accountant, then as Chief of the Bureau of Accounting and Financial Reporting. In addition to more than 25 years of experience in finance and accounting, Ms. Irvin is a Certified Public Finance Officer and has a Bachelor of Science degree in Business Management from the University of Maryland University College. An Ellicott City resident, Ms. Irvin serves as Immediate Past President

of the Board of Directors of the Government Finance Officers Association, Maryland Chapter and is a 2009 Graduate of the State Highway Administration Advanced Leadership Program.

*Gary W. Kuc* was appointed Howard County Solicitor effective July 1, 2015. Prior to that, Mr. Kuc was a Senior Assistant County Solicitor in the Howard County Office of Law for six years, during which time he advised both branches of County government on a variety of subjects, and represented Howard County before federal and State courts and various administrative bodies. Before joining the County's Office of Law, Mr. Kuc was a Senior Assistant Attorney General for the State of Maryland for five years, and handled complex civil litigation in the Civil Division of the Attorney General's Office. Prior to his public service, Mr. Kuc was in private practice, as an associate attorney and then partner at Whiteford, Taylor & Preston, LLP, for seven years, and as an associate attorney at Semmes, Bowen & Semmes for three years. Mr. Kuc also was a law clerk to the Honorable Irma S. Raker, Court of Appeals of Maryland. Mr. Kuc holds a Bachelor of Arts in Political Science, Public Service Emphasis, from the University of California, Santa Barbara, and a Juris Doctor, *Magna Cum Laude*, from the Catholic University of America. He is a member of the Maryland Bar, and is admitted to practice in the U.S. District Court for the District of Maryland, the U.S. Court of Appeals for the Fourth Circuit, and the U.S. Supreme Court.

*Dr. Holly Sun* became Howard County's Budget Administrator in January 2015. Dr. Sun comes from Prince George's County where she served as Deputy Director of the Office of Management and Budget, overseeing a budget of more than \$3 billion per year. She previously served as Budget Manager of the Maryland National Capital Park and Planning Commission, and has extensive experience managing revenues, operating budgets, and CountyStat. She has a PhD in Public Policy and Public Administration from George Washington University, and a Master in Public Policy from Duke University. She served on the Committee on Governmental Budgeting and Fiscal Policy of the Government Finance Officers Association (GFOA) for six years and was a member of the Board of Directors of Maryland GFOA, serving as the national GFOA representative.

## **Legislative**

*Opel Jones* was elected in 2018 to his first term serving District Two. He is a seasoned higher education administrator and lecturer of the mathematical sciences. He is currently a faculty member at American University in Washington, DC.

Dedicated to the community, Opel Jones mentors, tutors, and volunteers in his free time through his fraternity, as well as with the Howard County Democratic Party. He is a Life Member of Alpha Phi Alpha Fraternity, Inc., the Columbia Democratic Club, Ellicott City/Western Howard County Democratic Club, Thurgood Marshall Democratic Club, Greater ElkrIDGE Community Association, and the Howard County Chapter of the NAACP. Additionally, he is a former Human Rights Commissioner for Howard County, appointed by then County Executive, Ken Ulman.

Throughout the years, and in addition to teaching mathematics and statistics, Opel Jones has worked as a systems/software engineer, development officer, and a computer scientist, at Lockheed Martin, Hampton University, Bowie State University, and the United States Census Bureau. While a faculty member at Hampton University, he served as Director of the Leadership Institute for several years, teaching leadership studies, developing leaders, all the while teaching mathematics and honors seminars.

Opel Jones is a proud graduate of High Point High School in Beltsville, Maryland, where he lettered in four sports (baseball, football, indoor track, and outdoor track), served as President of the National Honor Society, and played in the marching and concert bands. Since then he has earned a bachelor's degree in mathematics from Hampton University, a master's degree in mathematics from Howard University, and is currently a doctoral candidate in mathematics also at Howard University.

He loves music, exercising, doing Sudoku puzzles, and studies martial arts as he is a black belt in Okinawan karate and a certified judge with the United States National Karate-Do Federation. He and his wife, Shaundra, are extremely proud parents of two boys, Opel II, and Ivan, and a brand-new baby girl born on May 11th, Whitley.

*David Yungmann* was elected in 2018 to his first term representing the Fifth District. He grew up in the Valley Mede/Chatham and Mt. Hebron communities after his family moved to Ellicott City in 1972. He attended public schools and is a graduate of Mt. Hebron High School, where he showed leadership at a young age as Drum Major of the award-winning marching unit. After graduating from Mt. Hebron in 1985, David attended Loyola University Maryland where he earned a bachelor's degree in Finance in 1989.

David most recently moved to Woodbine in 2000 where he has raised his own family, volunteered in the classroom, coached sports, enjoyed field trips and become a dedicated and successful community leader. He has supported numerous efforts to stop excessive development, especially in the rural west, including the construction of the massive religious and educational campus proposed for the former Woodmont Academy site. He was an early player in the effort to change the leadership of the school system and led a successful Board of Education campaign in 2016. David has represented two schools as a PTACHC Delegate, supported PTA/Booster Club boards, and served on many non-profit boards and committees from economic and employment advocacy to education and land use. David has also been active in the Republican Party for over 30 years, during which he has led the College Republicans, worked on campaigns, raised funds and most recently been voted Howard County's Republican Man of the Year.

His professional career began in commercial banking before moving into mergers and acquisitions, corporate and project finance, financial planning and executive management – all within the real estate and healthcare fields. David co-founded several companies providing healthcare products and services. In 2003, he changed careers to start The Yungmann Group, a residential real estate team based in Ellicott City. David's team has earned a Best of Howard County award for the past several years and has continued to be a market leader in and around Howard County.

In 2018, David was elected to the Howard County to represent Council District 5. District 5 encompasses the entire western portion of the county, spanning south to Fulton and east into Ellicott City. This is David's first elected public office and his first term will run through 2022.

*Deb Jung* was elected in 2018 to represent District Four for her first term. She is a 30-year resident of Howard County and lives in Columbia with her husband Ben and daughter Alyssa. Deb has been an attorney since 1984 and has her own private practice providing legal and strategic advice, training, and consulting to nonprofit organizations throughout Maryland. Previously, she served as a litigation associate at Whiteford Taylor Preston in Baltimore, Maryland; General Counsel to the Close-Up Foundation (a civic education organization for high school students and teachers) in Alexandria, Virginia; and as General Counsel to the Maryland Association of Nonprofit Organizations in Baltimore, Maryland. At the latter two organizations, she reviewed budgets and responded to employment and pension benefits matters. She is a member of the Maryland State Bar Association and Society for Human Resource Management.

A longtime community leader, Deb served as: Co-Chair of the Howard County Sesquicentennial Celebration Committee; Co-Chair of the Martin Luther King, Jr. Holiday Commission; and was a five-year member of the Howard County Human Rights Commission. Deb also served as President and was one of the founders of the Executive's Charity for the Arts established to raise money for scholarships for Howard County residents to study in the arts. Deb is a member of the Howard County NAACP, the Howard County Women's Democratic Alliance, and the Sierra Club of Howard County.

In addition to her community work, Deb has been very active as a parent in Howard County local schools, having spent many hours assisting with PTA activities and serving two years as the Booster Club President at Wilde Lake High School. She is a member of the HCPSS School Health Council and has helped lead the Start School Later effort in Howard County.

Deb was born in Hartford City, Indiana, and was raised in York and Pittsburgh, Pennsylvania, Charlotte, North Carolina, and Severna Park, Maryland. She graduated from Severna Park High School, obtained a B.A. in Political Science from Duke University, and a Juris Doctorate from the University of Maryland School of Law.

*Christiana Mercer Rigby* was elected in 2018 to her first term serving District Three. Her family moved to Columbia in the 1970's, following the vision of Jim Rouse, and settling into the villages of Owen Brown and Kings Contrivance. After graduating from Hammond HS and UMBC, she started her career as a community organizer, giving communities a voice in government. Christiana returned to start her family in Howard County and she has served our area as a tireless advocate through her roles as Vice Chair of the Kings Contrivance Village Board, a member of the Economic Resource Allocation Committee under Howard County's Board to Promote Self-Sufficiency board member to Howard Ecoworks, and founder of the Howard County Women's Democratic Alliance.

Christiana's professional life has been dedicated to public service. She has spent over a decade working in the government and nonprofit sectors with organizations such as the U.S Fish and Wildlife Service, Public Interest Research Group (PIRGS), Alice Ferguson Foundation, and United Way of Central Maryland.

Her highest priority is to create and expand opportunities for all residents. She is a strong supporter of our public education system and believes all children should receive a quality education. Christiana will work to ensure safe and

inclusive neighborhoods that provide people of all ages, backgrounds, and abilities a welcoming place to call home. Within District 3, she will work with our communities and focus on increasing investment and revitalization in our older neighborhoods. Christiana is deeply committed to continuing to serve our residents and will steward their issues and concerns.

In 2018, Christiana was elected to represent District 3 on the Howard County Council, which includes the Villages of Owen Brown and Kings Contrivance, as well as communities in North Laurel, Savage, and Jessup. At the Council's first legislative meeting, Christiana was nominated to serve as the Chair of the County Council, responsible for guiding the body through its first year in office. She is the youngest woman to serve as Chair of the Howard County Council.

*Liz Walsh* is a Mount Hebron Viking, Class of '89—just in time to be part of Hebron's first-ever girls' lacrosse team. She attended Georgia Tech on scholarship as a National Merit Scholar and graduated with honors in 1993 with a degree in Civil Engineering.

After graduation Liz became a project engineer for a national general contractor where she bid and ran construction projects in the field. If all her projects had been like her last one—rebuilding an old-time swinging bridge over the Cedar Creek in Slaughter Beach, Delaware—Liz probably never would have applied to law school. But she did.

Liz graduated from Georgetown Law, also with honors, in 2000. For nearly twenty years now, she has been a construction lawyer in practice at large, global law firms. She drafts and negotiates contracts to design, build and manage mega-construction projects and advises her general contractor and project owner clients as to their rights and responsibilities under those contracts and applicable law. She also tries cases, typically in arbitration.

Since 2009 Liz has lived in historic Ellicott City. When it came time to raise her own family, she returned to her hometown, where her parents still live in their same house behind the old Enchanted Forest. She found a century-old four-square in the hills above Main Street and lives there now with her two children and their rescue German Shepherd. There is a lot of weeding.

In 2018, Liz was elected to represent District One, which includes nationally-designated historic districts in Ellicott City and Elkridge, vast acreages of state park and other dedicated forestlands, and miles of streambanks along the Patapsco River and its smaller tributaries.

*Craig Glendenning* was appointed County Auditor effective September 4, 2012. Mr. Glendenning was previously the Assistant County Auditor with the Anne Arundel County Auditor's Office, and prior to that time held positions within the Maryland State Office of Legislative Audits. Mr. Glendenning is a Certified Public Accountant in the State of Maryland, and is a member of the Maryland Government Finance Officers Association, the American Institute of Certified Public Accountants, the Institute of Internal Auditors, and the Association of Local Government Auditors. Mr. Glendenning has more than 25 years of auditing, finance, and budgeting experience in the government sector.

## **Education**

*Dr. Michael J. Martirano* was named superintendent for the Howard County Public School System in July 2018 after serving as interim superintendent since May 2017. He leads a school district with 58,000 students, 8,600 employees, and 82 schools and facilities; and manages an \$861.9 million operating budget.

Dr. Martirano has been an educator for more than 30 years, and is committed to ensuring equity and giving every child an opportunity to succeed. Prior to joining HCPSS, he most recently served as West Virginia state superintendent of schools, during which the state saw notable success in the areas of early childhood literacy, graduation rates and career technical education. He previously served as superintendent of St. Mary's County Public Schools (Maryland), and has a wide range of educational and administrative experience through his work as a science teacher, principal and visiting professor at Johns Hopkins University. In rejoining the HCPSS, he returned to the system where he previously served as a director of School Administration, and to the county where he lived 19 years.

In 2017, Dr. Martirano was named a Distinguished West Virginian, the highest award given by the Governor of West Virginia. He also was named a "Chief Making A Difference" and one of 50 people "Shaping the Future of K-12 Education in America" in the 2014 and 2015 Annual Smart List Awards. Other honors include the 2009 Superintendent of the Year in Maryland, a 2010 Innovator of the Year by the Maryland Daily Record, and the 2011 Jack Epstein Award for contribution to multicultural education in Maryland. He holds a Doctorate of Education degree in school management and instructional leadership from Nova Southeastern University, and two Master of Education degrees and a Bachelor of Science degree from the University of Maryland.

## Responsibilities and Services

### County and Board of Education Employees

The following table presents the number of County (including Library, Community College and Housing Commission) and Board of Education full-time and permanent part-time employees for the last five fiscal years as authorized in the County budget.

**County and Board of Education Employees**

<b>Fiscal Year</b>	<b>Public Safety</b>	<b>Other County</b>	<b>Board of Education</b>	<b>Total</b>
2018	1,336	2,719	8,045	12,100
2017	1,298	2,676	7,826	11,800
2016	1,285	2,629	7,710	11,624
2015	1,296	2,622	7,693	11,611
2014	1,262	2,514	7,666	11,442

The County has experienced no work stoppages due to labor difficulties and considers its relationship with employees to be satisfactory. The County currently has collective bargaining with the following exclusive representatives and their bargaining units: (1) American Federation of State, County and Municipal Employees (“AFSCME”), which represents correctional officers and correctional dietary officers of the County’s Detention Center (Local 3080), a separate local representing blue collar workers of various County departments (Local 3085), Local 3888 representing blue collar supervisors of various County departments, and Local 1810 which represents employees in specific clerical and white collar classifications of various County departments; (2) International Association of Firefighters Local 2000, representing firefighters below the rank of captain; (3) Howard County Police Officers’ Association Lodge 21, representing sworn police officers below the rank of sergeant; (4) Howard County Police Supervisors’ Association Lodge 143, representing sergeants, and (5) Howard County Public Safety Dispatchers Association, which represents 911 dispatchers. The County has successfully negotiated contracts with unions which will expire on June 30, 2020 (Dispatchers, Local 3080, Local 3085, Local 3888 and Local 1810). Lodge 21, Lodge 143, and Local 2000 have extended collective bargaining agreements through June 30, 2019 and are currently in the process of negotiations for fiscal year 2020.

Most Board of Education employees are represented by a bargaining unit. The Howard County Education Association (HCEA), affiliated with the Maryland State Education Association and the National Education Association, represents teachers and other certificated non-supervisory personnel. The Howard County Education Association-Education Support Professionals (HCEA ESP) represents non-certificated non-supervisory personnel such as clerical, secretarial, instructional, student, food and nutrition service, health, and security assistants, educational interpreters, registered nurses and central office technical staff. The American Federation of State, County and Municipal Employees (AFSCME - Local 1899) represents non-certificated non-supervisory personnel such as custodial, grounds, maintenance and warehouse staff. The Howard County Administrators Association (HCAA) represents certificated supervisory personnel such as school-based administrators, leadership interns, athletics and activities managers, and instructional facilitators.

### Board of Education of Howard County

The Board of Education is a Component Unit of the County. The educational policies, procedures and programs of the public schools in the County are the responsibility of the Board of Education, a seven-member elected body, working with the County Superintendent of Schools appointed by the Board of Education. The County program is governed by the State Board of Education. Daily functions within the schools are the responsibility of the County Superintendent of Schools and his staff.

The Howard County School System offers a comprehensive education program, kindergarten through grade 12, with pre-kindergarten programs available in some schools. Academic support services and gifted programs are available

in all schools and in all grades. Special education services are provided for identified students from birth through age 21.

For the 2018-2019 school year, the Board of Education exercised responsibility for 42 elementary schools, 20 middle schools, 12 high schools, and three education centers that accommodate approximately 58,000 students. The teacher-to-student ratio is presented in the following table.

<b>Teacher to Student Ratio</b>	
Kindergarten	1 professional to 22 students
Grades 1-2	1 professional to 20 students
Grades 3-5	1 professional to 26 students
Middle school	1 professional to 21 students
High school	1.4 professional to 28 students

The Strategic Call to Action (SCTA), Learning and Leading with Equity, underlies all Howard County School System initiatives and decisions in alignment with its mission, to ensure academic success and social-emotional well-being for each student in an inclusive and nurturing environment that closes opportunity gaps. The HCPSS vision is that every student and staff member embraces diversity and possesses the skills, knowledge and confidence to positively influence the larger community. The SCTA, mission and vision are supported by four overarching commitments:

- Value: Every HCPSS stakeholder feels happy and rewarded in their roles and takes pride in cultivating the learning community.
- Achieve: An individualized focus supports every person in reaching milestones for success.
- Connect: Students and staff thrive in a safe, nurturing environment that embraces diversity.
- Empower: Schools, families and the community are mutually invested in student achievement and well-being.

## **Howard Community College**

Howard Community College is a public community college serving nearly 30,000 credit and noncredit students at its main campus in Columbia, Maryland, and in other locations. Since 1970, the college has been helping build the workforce of the future by educating the students who will contribute to the businesses and organizations within Howard County.

Howard Community College offers associate degrees and certificates built around academic areas such as arts, humanities, health sciences, engineering, business, and cyber technology. With associate degrees or related coursework, students have the opportunity to transfer to four-year colleges or universities to complete their baccalaureate degrees. Students also attend the college to sharpen job skills, prepare for a new career, pursue professional training, or explore personal interests. The college offers flexible scheduling with day, evening, and weekend courses, as well as online, hybrid, and accelerated learning formats.

Howard Community College is governed by a board of trustees appointed by the Governor of Maryland. For FY19, the college's unrestricted budget reflects the following sources: 38 percent from tuition and fees, 29 percent from the County, 16 percent from the State, and 17 percent from auxiliary operations and other sources. The college is a Component Unit of the County.

## **Howard County Library System**

An educational institution and allied agency alongside Howard County Public School System and Howard Community College, Howard County Library System (HCLS) delivers high-quality public education for all ages. Designated a national Five Star Library System by Library Journal, HCLS earned the highest five-star ranking attained by fewer than one percent of public libraries in the U.S., and the only library system in Maryland to do so.

HCLS' curriculum comprises three pillars: (1) Self-Directed Education through a collection available in print, audio and electronic formats; specialized online research tools; DIY tools for repairing, creating, and adventuring; and nearly 300 framed prints as part of its new Art Education Collection, (2) Research Assistance & Instruction for individuals and groups through classes taught by HCLS instructors and, (3) Instructive & Enlightening Experiences through cultural and community center concepts; partnerships such as A+ Partners in Education and Choose Civility; and signature events including notable author appearances, Spelling Bee, Battle of the Books, and HiTech, HCLS' STEM education initiative.

A component unit of the County, HCLS is governed by a seven-member Board of Trustees. The HCLS Board forwards nominees to the County Executive, who appoints Trustees subject to approval by the County Council. HCLS' Operating Budget is funded by the County (90%), HCLS/grants (6%), and the Maryland State Department of Education (4%). Capital projects are funded chiefly by the County, supplemented with grant funding from the Maryland State Library.

Students of all ages, means, and backgrounds visited HCLS' six branches nearly 2 million times in FY18 to borrow 8.2 million items and conduct research. Attendance at HCLS' classes and events totaled 304,000 and research assistance interactions reached 1.5 million. A recognized leader in the state and nation for excellence in education for all, HCLS' per capita borrowing stands in the top 10 nationally and continues to lead all other systems in the State of Maryland.

## **Public Safety**

The County Department of Police, administered by the Chief of Police, is responsible for enforcing State and County laws, rules, and regulations. The Police Department employs 723 persons (which includes 480 sworn officers, 224 civilian employees, 38 school crossing guards) and has a fleet of 572 vehicles utilized by sworn and civilian employees. These vehicles include: two armored rescue vehicles, two tactical support vehicles, command post, bus, helicopter, six motorcycles, two traffic support vehicles, two electric motorcycles, two all-terrain vehicles and one electric all-terrain cart. The number of officers per 1,000 residents is approximately 1.5. Additionally, the Department has 16 Volunteer Auxiliary Officers, 8 Volunteer Mounted Horse Patrol and 8 Volunteer Chaplains (all non-sworn).

Howard County Department of Fire and Rescue Services partners highly-trained career and volunteer personnel to provide 24/7 emergency services to citizens, businesses, and visitors in and around Howard County at the direction of a Fire and EMS Chief who is appointed by the County Executive. These services include fire suppression and investigation, emergency medical services (including both basic and advanced life support), technical rescue, and hazardous materials mitigation. The Department operates from 12 stations located throughout the County, seven of which are also home to the County's six volunteer fire corporations.

In 2018, the Department responded to over 38,709 incidents, approximately 71% of which involved providing emergency medical care. The Department also provides stand-by medical coverage for large concerts, sporting tournaments, and public events. In addition, a wide variety of community risk reduction programs are managed that include a localized fire code, a crowd manager program, commercial and residential fire safety inspection services, a 'Safety House' elementary education fire prevention program, and a highly-successful community CPR program which includes curriculum in the public school system. The Department is also designated by County Code as the lead agency for the Office of Emergency Management for Howard County and has responsibility for county-wide emergency planning, preparedness, and response.

The County Department of Corrections, administered by its Director, is responsible for the operation of the Howard County Detention Center, Central Booking Facility and Community Services Program. The Detention Center holds individuals who are detained pending trial as well as those sentenced up to 18 months. The Detention Center has an operating capacity for 398 inmates. Approximately 3,000 inmates are processed annually through the Detention

Center. The Central Booking Facility (CBF), opened in 2005, is the location for processing all adult arrests which occur in Howard County. At CBF all arrestees are fingerprinted, photographed, screened for warrants and officially served with charging documents before appearing before a District Court Commissioner for an initial appearance. In 2018, 2,842 individuals were processed at CBF. The Howard County Community Service Program places and supervises individuals with court-ordered community service. Staff place participants at non-profit and government agencies to perform required community service hours. Reports of completion or non-compliance are sent to the sentencing judge. The program supervises approximately 500 individuals per year. The Department is accredited by the Maryland Commission on Correctional Standards.

## **Planning and Zoning**

The Howard County Department of Planning and Zoning is responsible for comprehensively planning for growth, development, and conservation in the County. To accomplish this, the Department undertakes many diverse activities: comprehensive planning; preparing growth projections; managing growth based on the adequacy of public services; enhancing existing communities and redevelopment of older commercial-industrial areas; agricultural and historic preservation, environmental planning; development review; and the administration of zoning and subdivision regulations.

The County's General Plan, PlanHoward 2030, adopted in 2012, focuses on sustainability in terms of our environment, economy and the quality of life in our communities. PlanHoward 2030 retains and builds on the strong growth management system that was adopted following the 1990 General Plan.

The rural western 60 percent of the County is zoned to protect agriculture and environmental resources, promote the agricultural economy, and cluster limited residential development. In the urban eastern 40 percent of the County, planning policies encourage higher intensity employment areas, mixed-use redevelopment in Downtown Columbia and the U.S. Route 1 and Route 40 corridors, and increased housing densities. Mixed-use zoning on Route 1 has stimulated nine pioneer developments with over 4,000 housing units, as well as commercial uses. To create an urban center for the County, the Downtown Columbia plan promotes redeveloping parking lots and underutilized land to add 6,244 new residences, 640 new hotel rooms, 1.25 million square feet of retail and 4.3 million square feet of office space. In addition, the County requires moderate income housing in residential zoning districts as a way to address the demand for affordable housing.

Adequate Public Facilities regulations, adopted in 1992, require proposed development to be tested for adequate schools and roads as a condition of plan approval. Milestones, incorporated into the legislation, require properties to move in an orderly and predictable manner through the development process. The County in turn adopts a six-year plan for its infrastructure, particularly schools and roads, to serve this pace of development. Based on PlanHoward 2030 and the County's Adequate Public Facilities legislation, residential development outside Downtown Columbia is restricted to 1,850 units per year. A cap of 100 units per year limits rural subdivisions and combined with an ambitious agricultural land preservation program, serves to redirect rural growth pressure into the County's eastern Planned Service Area for Public Water and Sewer. Council Bill 1-2018 further limits the number of building permits which may be issued based on public school capacity. The County has numerous community planning and corridor revitalization initiatives underway to maintain the quality of life and property values in older residential neighborhoods, as well as promoting revitalization and redevelopment of older corridors and commercial centers. A major undertaking is rewriting the County's development regulations to make them more understandable and easier to administer.

As the transition from greenfield development to grayfield redevelopment continues, the County will be refining policies and developing new strategies for accommodating continuing business and housing growth in ways that sustain and enhance our quality of life, our economy and our natural and built environments.

## **Inspections, Licenses and Permits**

The goal of the Howard County Department of Inspections, Licenses, & Permits (DILP) is "A Quality Product, Fast & Friendly". A quality product ultimately means safe and healthy buildings and our aim is to achieve this in an efficient, customer-friendly manner.

DILP is responsible for the intake, processing, review and approval, issuance, and inspection of all licensing and permitting work related to the built and rental environment in the County. We accomplish this through the cooperative and coordinated activities of four Divisions within DILP: Operations; Licenses & Permits; Plan Review; and Inspections & Enforcement. This activity is done to assure public safety through the adoption and enforcement of the

Howard County Building Code. This “code” includes the adoption of the International Building Code (IBC), the International Residential Code (IRC), the Life Safety Code, the National Fire Prevention Code, the National Electrical Code, the Maryland Accessibility Code, and related Plumbing, Mechanical, Fuel Gas, and HVAC codes, as well as the Property Maintenance Code for Rental Housing (the International Property Maintenance Code).

By adopting up-to-date codes and standards, new buildings in the County will have better resilience and sustainability. Also, hazards are mitigated before the hazard ever occurs since structures built to modern building code standards are better equipped and constructed to withstand the effects of natural and man-made disasters. Code-compliant structures are less likely to catch fire or be prematurely affected by decay, rot or the effects of nature and general wear and tear; they are also more energy efficient and environmentally friendly. In addition, should the effects of nature come to the County: fire; flood; high-wind; etc., these structures are more likely to withstand these effects with less damage than non-code-compliant structures.

DILP is also responsible for the Damage Assessment Emergency Support Function (ESF-9) of the Howard County Emergency Operations Plan (EOP). Following a disaster (e.g. fire, flood, tornado, etc.) DILP is responsible for assessing the level, nature and extend of the damage to individual structures; known to the Federal and Maryland Emergency Management Agencies (FEMA and MEMA) as “individual assistance”, or “IA”. Additionally, DILP coordinates the damage assessments from public buildings and infrastructures, known as “public assistance”, or “PA”. This work is required to first determine the extent of an event, as well as to begin the process of hazard mitigation and planning for the recovery and rebuilding process.

## **Recreation and Parks**

The County Department of Recreation and Parks, administered by its Director, is responsible for the organization and conduct of recreational programs and the development and operation of parks and other recreational facilities in the County. County parks and programs are estimated to serve over two million visitors each year. In 2017 the County’s Land Preservation Parks and Recreation Plan was completed and adopted by the County Council and the County Executive. The plan surveys current and expected needs for park facilities and recreation programs, outlines goals and offers strategies for implementation. Land acquisition for recreation areas and natural resource preservation is a critical element of the Plan. Land is purchased using federal, state and local dollars. The County Department of Recreation and Parks currently manages over 9,400 acres of land, three community centers, one athletic complex and an 18-hole golf course, an indoor pool and 25 active historic sites. The Department is one of only 165 Recreation and Parks agencies accredited through the National Recreation and Parks Association’s Commission for Accreditation of Park and Recreation Agencies.

## **Housing and Community Development**

The Department of Housing and Community Development strives to create strong, sustainable communities by fostering public and private partnerships to provide affordable housing resources for residents of all income levels. Through its use of the Community Renewal Program Fund, the Department can support initiatives such as the Moderate-Income Housing Unit (MIHU) Rental and Homeownership Program, the Settlement Downpayment Loan Program (SDLP), County Rehabilitation Loan Program (RRR) and homebuyer education to provide affordable housing opportunities for low and moderate income families who live or work in Howard County. The Department also administers funding for several federal and state programs, including Community Development Block Group (CDBG), Home Investment Partnership Program (HOME) and Community Legacy, to provide loans and grants for special needs housing programs, rental assistance, rehabilitation loans and community facilities and programs.

## **Community Resources and Services**

As the human service arm of County Government, the Department of Community Resources and Services, consists of the Office of ADA Coordination, Office on Aging and Independence, Office of Children and Families, Office of Local Children’s Board, Office of Consumer Protection, Office of Community Partnerships and the Office of Veterans and Military Families. It serves as the lead agency for the county’s Continuum of Care for homeless services; manages the Community Service Partnership program, which provides county funding to non-profit human service agencies; and administers federal, state and private source grants that support services to individuals and families in the community, including older adults, youth and homeless persons. The Department also serves as the lead agency for mass care and shelter, and manages donations in the events of disaster. In collaboration with local private and public agencies, it plays an integral role in strengthening the effectiveness and efficiency of the county’s overall human

service delivery system. Staff support is provided to the Board to Promote Self-Sufficiency, Commission on Aging and Independence, Commission on Disability Issues, Commission for Women, Consumer Affairs Advisory Board, Local Children's Board, Transition Council, Human Trafficking Coordinating Council and the Veterans Commission.

## **Public Works**

The County Department of Public Works, administered by its Director through five bureaus, is responsible for the programming, design, construction, operation and maintenance of public works facilities in accordance with the County's General Plan. The department also provides for the administration, enforcement and inspection of site development construction activities.

The Bureau of Engineering is responsible for the design, inspection and construction of public works projects. The bureau also prepares engineering water and sewer plans and develops and implements the water and sewer program in the County capital budget. The Bureau of Engineering also acts as the County's agent in all functions related to the construction of roads, bridges, water, sewer, storm drainage, traffic control and underground private utilities in the public right of way. This Bureau has been designated the responsibility of ensuring that Public Works' projects are constructed according to standards established by Howard County. These projects include both developer and capital type facilities such as storm drains, water systems, sewer facilities, roadways and public parks. The Bureau manages all Underground Utility Permits and is the enforcement authority under the Grading Permits for erosion and sediment control.

The Bureau of Facilities is responsible for maintaining the daily operations of all County-owned facilities which fall under the direction of the Director of Public Works. This responsibility includes building service and maintenance, technical expertise in the development of new facilities, control of energy use and costs, control of building service contracts, i.e. custodial services and corresponding costs to the County, and providing security guards and systems where necessary.

The Bureau of Highways is responsible for maintenance and repair of all County-owned roadways, bridges, drainage facilities, and other public roadway infrastructure. The bureau responsibilities also include tree care, snow removal, traffic signals operation and street signs.

The Bureau of Utilities is responsible for the operation, maintenance and construction of the County's water and sewer system within the Metropolitan District and Shared Sewerage Disposal Facilities. This bureau is operated as a public utility and is financially a self-supporting operation. Financial information regarding the system is shown under "Financial Information, Water and Sewer Enterprise Fund" herein.

The Bureau of Environmental Services is responsible for an integrated solid waste management system and watershed management efforts in accordance with local, state, and federal laws. The integrated solid waste management system includes curbside trash and recycling collection; the County's Alpha Ridge Solid Waste Management Center including the landfill, transfer station, residential drop-off center, and recycling center; and the contracts associated with the collections, processing, and disposal of the solid waste and recyclables. The watershed management program includes inspection and oversight of maintenance of existing stormwater management facilities, floodplain studies, an illicit discharge elimination program, stream restorations, and retrofitting stormwater management facilities. All programs include education and outreach.

## **Water and Sewer System**

The Metropolitan District is located in the eastern part of the County and encompasses over one third of the County's area. It functions as a single sanitary district for both water and sewer purposes. The County provides water and sewer services to 98.9 percent of the County residents located in areas of heavy residential and commercial population within the Metropolitan District. Little public water or sewer service is provided to County residents residing outside the Metropolitan District.

The County neither owns nor operates any water supply treatment facilities. Instead, it has entered into agreements with the City of Baltimore and the Washington Suburban Sanitary Commission for the purchase of water. The County purchases 85 percent of its potable water from Baltimore City and 10 percent from the Washington Suburban Sanitary Commission. Commitments from the County's water suppliers total over 41.5 million gallons per day (mgd) average daily flow and 55.5 mgd maximum daily flow. Improvements to the distribution system and storage facilities are under construction or included in the capital program in order to increase the service area within the Metropolitan District. The County signed a 40-year agreement with the City of Baltimore in 2017 guaranteeing water supply to the

County. While the County’s water system is being expanded to meet future demands, the County Department of Public Works closely monitors its water capacity.

The County is located in and served by two major watersheds: the Patapsco River watershed and the Patuxent River watershed. The sewer system is designed so that sewage from the northeastern part of the Metropolitan District flows into the Patapsco River watershed through four connections that lead to the Patapsco Treatment Plant in Baltimore City. Sewage from the southwestern part of the Metropolitan District flows into the Patuxent River watershed to the Little Patuxent Water Reclamation Plant. The latter plant is located east of the community of Savage in the County, and provides tertiary treatment. A \$100+ million expansion/upgrade to the Little Patuxent Water Reclamation Plant was completed in 2012 so it met the State’s requirements for Enhanced Nutrient Removal (ENR). The Plant is currently undergoing another \$100+ million upgrade to its Biosolids Management Facilities with an estimated construction completion by June 2020. The following table summarizes the overall sewage treatment capacity for the County:

**County Sewage Treatment Capacity**

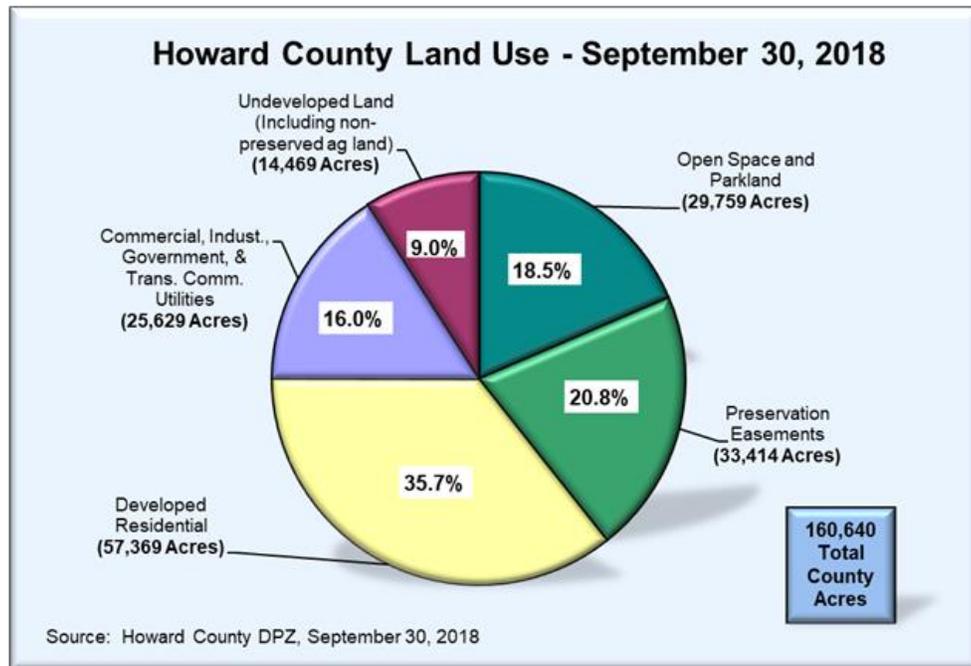
<b>Watershed</b>	<b>Current Flow (mgd)</b>	<b>Current Treatment Capacity (mgd)</b>	<b>Projected Treatment Capacity (mgd)</b>
Patuxent	21.0	29.0	29.0
Patapsco	8.8	11.6	12.4

The County’s rate of development requires effective management of the allocation of water and sewer capacity. The County policy allocates service on a “first-come, first-served” basis. This policy commits capacity only to parcels ready to be developed, allowing more orderly development with known allocation priorities and recovery of costs in a more orderly and timely manner. All County sewage treatment facilities meet current State Department of the Environment standards, and State approval is being obtained for the sewage treatment facility expansion.

# Economy and Demography

## Size and Land Use

The County is 251 square miles in area, making it the second smallest in the State. The chart below presents the composition of land use in the County as of September 30, 2018.



## Population

The County experienced rapid population growth beginning in the late 1960s with the development of the master-planned community of Columbia. The rate of growth has slowed over the last decade with the maturation of Columbia. The County's population density has increased from 247 persons per square mile in 1970 to 1,279 per square mile in 2017. The following table presents data on the population of the County and the State in the years 1970, 1980, 1990, 2000, 2010, and 2017.

	Howard County	County Density Per Square Mile	State of Maryland	County as % of State
2017	321,113	1,279	6,052,177	5.3
2010	287,085	1,144	5,773,552	5.0
2000	247,842	987	5,296,486	4.7
1990	187,328	746	4,781,468	3.9
1980	118,570	472	4,216,446	2.8
1970	61,910	247	3,923,897	1.6

Source: Maryland State Data Center, Department of Planning

A large part of the County's recent growth has been the result of domestic and international migration. The following table presents population growth by component of change for selected larger counties and the State from 2010 to 2017. Compared to the counties listed and the State, Howard County has had the greatest percentage increase in population.

### Net Migration

Place of Residence	2010 to 2017				Total Population		
	Natural Increase	Domestic Migration	International Migration	Total	2010	2017	Percent Change
Howard County	13,705	8,437	11,886	34,028	287,085	321,113	11.9%
Anne Arundel County	20,471	6,152	8,956	35,579	537,656	573,235	6.6%
Baltimore County	13,168	(10,506)	24,777	27,439	805,029	832,468	3.4%
Montgomery County	52,426	(38,834)	73,441	87,033	971,777	1,058,810	9.0%
Prince George's County	46,467	(40,895)	43,764	49,336	863,420	912,756	5.7%
State of Maryland	192,716	(112,092)	198,001	278,625	5,773,552	6,052,177	4.8%

Source: U.S. Department of Commerce, Bureau of Census, Population Division

The following table presents data on the age and sex composition of the County's population for the years 2010 and 2017.

### Age and Sex Distribution

Age Group	2010				2017			
	Male	%	Female	%	Male	%	Female	%
Under 5	8,892	6.5%	8,554	6.0%	9,476	6.2%	9,100	5.7%
5-19	32,284	23.6%	30,225	21.2%	33,778	22.1%	31,771	19.9%
19-44	44,869	32.8%	47,761	33.5%	48,910	32.0%	51,248	32.1%
45-64	39,123	28.6%	41,060	28.8%	43,102	28.2%	45,820	28.7%
Over 65	11,628	8.5%	14,970	10.5%	17,577	11.5%	21,713	13.6%
Total*	136,795	100.0%	142,571	100.0%	152,843	100.0%	159,652	100.0%

\*May not total 100 due to rounding

Source: U.S. Department of Commerce, Bureau of the Census, American Community Survey, 2013 - 2017

## Education

The County's residents are among the best educated in the region. The following table presents the percentage of residents who are high school graduates or higher and college graduates or higher.

### Level of Educational Attainment

County	% High School Graduate or Higher	% College Graduate or Higher
Howard County, Maryland	95.3	61.2
Anne Arundel County, Maryland	92.0	40.1
Baltimore County, Maryland	91.1	37.8
Montgomery County, Maryland	91.1	58.3
Prince George's County, Maryland	86.1	31.9
State of Maryland	89.8	39.0
United States	87.3	30.9

Source: U.S. Department of Commerce, Bureau of Census, American Community Survey, 2013 - 2017

The County consistently spends more per pupil on its students than school systems in most other parts of the State. The following table presents the budgeted expenses per pupil in the public schools in selected counties and the State for the indicated school years.

**Budgeted Expenses Per Pupil**

School Year	Howard County	Anne Arundel County	Baltimore County	Montgomery County	Prince George's County	State of Maryland
2017-2018	\$14,474	\$12,892	\$13,116	\$14,867	\$14,014	\$13,541
2016-2017	14,178	12,448	13,037	14,581	13,920	13,503
2015-2016	14,316	12,210	12,535	14,017	13,614	13,126
2014-2015	14,345	12,198	12,405	13,994	13,350	13,036
2013-2014	14,025	12,178	12,323	14,012	12,880	12,893

Source: Maryland Department of Education, Fact Book

**Income**

The County’s median household income is the highest in Maryland and 3<sup>rd</sup> highest in the nation. The following table presents the median household income for selected counties in the State in 2017.

**Median Household Income**

Howard County	\$115,576
Anne Arundel County	94,502
Baltimore County	71,810
Montgomery County	103,178
Prince George's County	78,607

Source: U.S. Department of Commerce, Bureau of Census, American Community Survey, 2013 - 2017

The following table presents the top 15 affluent counties in the nation by their national ranking for median household income.

**National Rankings by Median Household Income**

Rank	County, State	Median Household Income
1	Loudoun County, Virginia	\$129,588
2	Fairfax County, Virginia	117,515
3	Howard County, Maryland	115,576
4	Falls Church City, Virginia	114,795
5	Arlington County, Virginia	112,138
6	Douglas County, Colorado	111,154
7	Hunterdon County, New Jersey	110,969
8	Los Alamos County, New Mexico	110,190
9	Morris County, New Jersey	107,034
10	Fairfax City, Virginia	106,870
11	Santa Clara County, California	106,761
12	Somerset County, New Jersey	106,046
13	Nassau County, New York	105,744
14	San Mateo County, California	105,667
15	Marin County, California	104,703

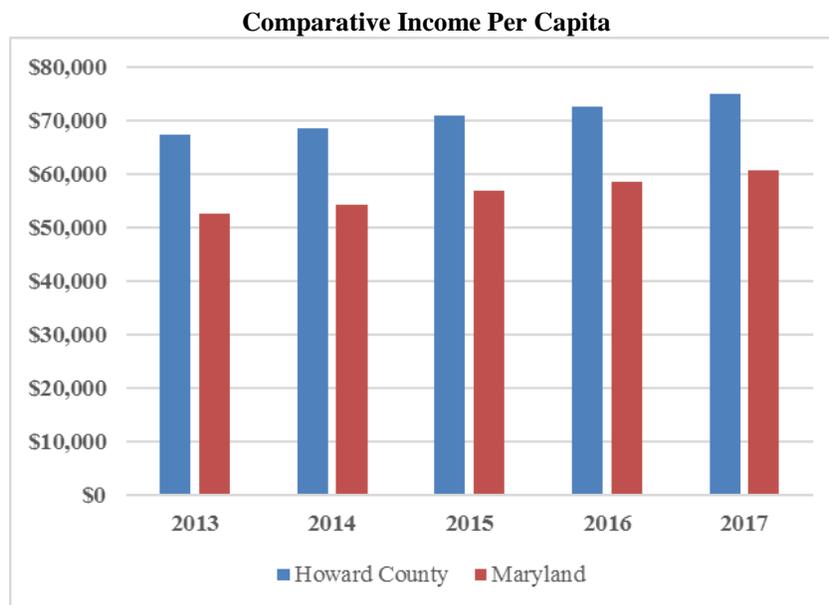
Source: U.S. Census Bureau, 2017 American Community Survey 2013 - 2017

A comparison of County and Maryland personal income for the past five years available is presented in the following table.

<b>Personal Income</b>					
<b>Year</b>	<b>Howard County Personal Income (\$000,000)</b>	<b>Change from Previous Year</b>	<b>Maryland Personal Income (\$000,000)</b>	<b>Change from Previous Year</b>	<b>Howard County Proportion</b>
2017	23,567	4.1%	361,069	3.9%	6.5%
2016	22,637	4.4%	347,587	4.3%	6.5%
2015	21,681	4.1%	333,132	4.4%	6.5%
2014	20,829	0.9%	319,082	1.7%	6.5%
2013	20,639	1.3%	313,668	1.3%	6.6%

Source: Jacob France Institute

The chart below presents the per capita income for the County and the State from 2013 through 2017.



Source: U.S. Department of Commerce, Bureau of Economic Analysis

Poverty is less of a problem in the County than in other counties in the Baltimore-Washington metropolitan region. The following table presents the percentage of the population living below the poverty level for selected jurisdictions in 2017.

<b>County</b>	<b>Percentage Below Poverty Level</b>
Howard County	5.2%
Anne Arundel County	6.1%
Baltimore County	9.1%
Montgomery County	7.0%
Prince George's County	9.3%
State of Maryland	9.7%
United States	14.6%

Source: U.S. Department of Commerce, Bureau of the Census, American Community Survey, 2013 - 2017

## Housing

The County's housing stock predominately consists of owner-occupied single-family houses. The following table presents the distribution of housing in the County by type of structure as of 2017.

**Distribution of Housing by Type**

Type of Structure	Number	Percent
Single-Family	90,045	75.1%
Multi-Family	29,798	24.9%
Total	119,843	100.0%

Source: County Department of Planning and Zoning

The following table presents the average and median sales price of housing in selected counties and the State in calendar year 2018.

**Sales Price of Housing**

County	Average Price	Median Price
Howard County	\$444,776	\$406,617
Anne Arundel County	400,107	338,287
Baltimore County	281,797	238,426
Montgomery County	535,846	438,521
Prince George's County	295,642	286,098
Maryland	336,868	293,930

Source: Maryland Association of Realtors, 2018.

The following table presents the distribution of housing by year of construction in selected counties in the State through 2017.

**Age of Housing**

County	Year Structure Built				
	1939 or earlier	1940 to 1979	1980 to 1989	1990 to 1999	2000 or later
Howard County	1.8	30.5	24.9	21.8	21.0
Anne Arundel County	5.1	43.7	16.0	17.8	17.4
Baltimore County	8.4	52.9	14.6	13.7	10.4
Montgomery County	4.8	47.8	20.9	12.4	14.1
Prince George's County	4.4	53.9	14.0	14.3	13.4

Source: U.S. Department of Commerce, Bureau of the Census, American Community Survey, 2013-2017

The following table presents data regarding the size of housing in selected counties in the State in 2017.

**Size of Housing**

County	Percentage of Housing with		Median Number of Rooms
	Four to Seven Rooms	Eight or More Rooms	
Howard County	47.8%	43.9%	7.0
Anne Arundel County	58.1%	35.3%	6.6
Baltimore County	62.7%	28.1%	6.1
Montgomery County	48.8%	37.3%	6.4
Prince George's County	56.3%	31.7%	6.1

Source: U.S. Department of Commerce, Bureau of the Census, American Community Survey, 2013 - 2017

The following table presents new construction and renovation activity throughout the County from 2014 through 2018, as illustrated by the number of building permits issued and their estimated cost.

Calendar Year	Commercial		Residential		Non-Taxable	
	Estimated		Estimated		Estimated	
	Permits Issued	Construction Cost (000)	Permits Issued	Construction Cost (000)	Permits Issued	Construction Cost (000)
2018	663	\$578,170	2,948	\$454,853	14	\$9,909
2017	767	375,282	3,054	294,172	39	66,882
2016	748	240,854	3,820	523,634	16	66,562
2015	1,394	294,549	5,943	384,212	50	44,466
2014	1,360	244,937	4,535	362,896	105	37,220

Source: Howard County Department of Inspections, Licenses and Permits

## Economy

### Jobs in the County

In the past four decades the County has changed from a farming community into a community of urban, suburban and rural components. This is due, in part, to the County's close proximity to the cities of Washington, D.C. and Baltimore, as well as to the County's active promotion of economic development. The following table presents full- and part-time jobs located in the County and the State, regardless of worker's place of residence. The first segment of the Services category, Trade, Transportation, and Utilities, includes utilities, wholesale and retail, couriers and transit. The fourth, Professional and Business, includes professional and technical services, management and administrative services and waste management and remediation services.

Employment Categories	Howard County		State of Maryland	
	2018	2014	2018	2014
Construction	12,008	10,394	163,195	152,721
Manufacturing	8,297	7,546	108,195	103,525
Natural Resources and Mining	368	297	6,837	6,363
Services				
Trade, Transp. and Utils.	33,652	33,809	459,981	462,223
Information	3,734	3,501	36,777	38,660
Financial Activities	10,292	9,201	138,863	137,847
Professional and Business	46,599	42,794	452,568	428,905
Education and Health	19,164	17,950	445,399	414,291
Leisure and Hospitality	16,912	14,596	290,551	256,795
Other	4,615	4,586	92,429	89,619
Government	17,300	17,296	497,664	497,090
Other	-	-	7	-
<b>Total</b>	<b>172,941</b>	<b>161,970</b>	<b>2,692,466</b>	<b>2,588,039</b>

Source: Maryland Department of Labor, Licensing and Regulation

## Workers Living in the County

The following table presents employment statistics, by employee's place of residence, for the County and the State in December of the last five years.

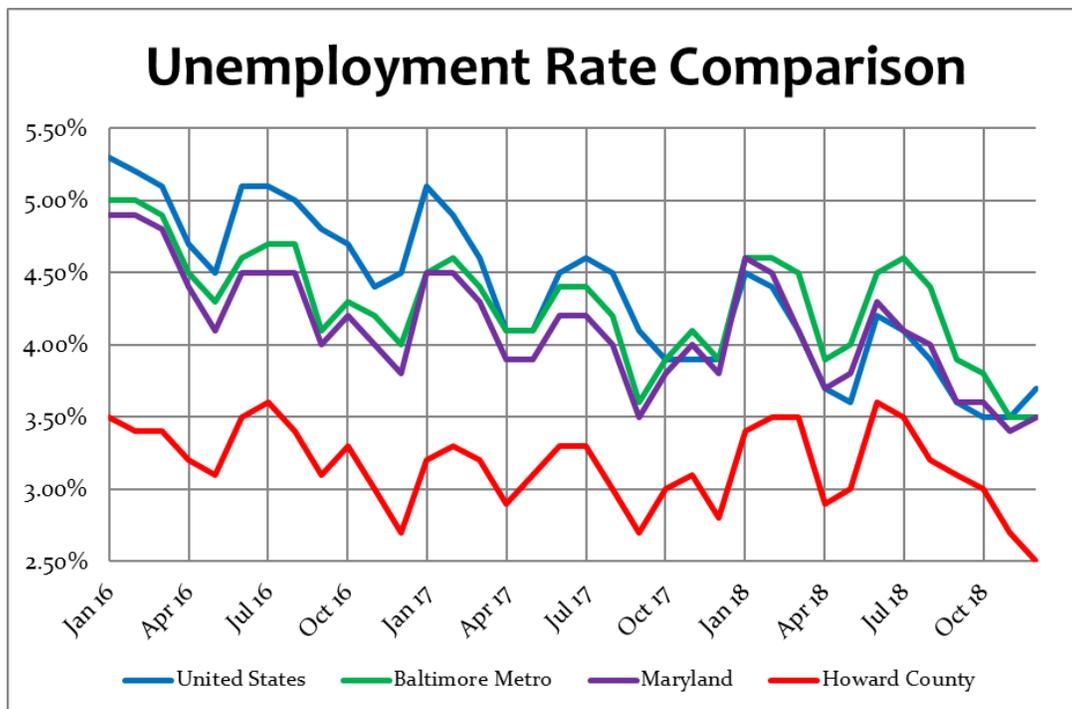
**Employment by Residence**

Year	Howard County		State of Maryland	
	Employment	Labor Force	Employment	Labor Force
2018	178,883	183,534	3,101,719	3,226,938
2017	176,715	181,689	3,091,074	3,221,685
2016	173,944	178,854	3,049,523	3,182,680
2015	169,332	175,095	3,019,686	3,165,323
2014	169,530	176,679	2,921,393	3,095,989

Source: Maryland Department of Labor, Licensing and Regulation

## Unemployment

The chart below compares the unemployment rates in the County of the last three years with the rates in the Baltimore metropolitan region, Maryland and the United States.



## Local Firms and Employers

Listed below are the County’s ten largest private employers in 2018.

### Ten Largest Private employers

Employer	Products or Activities	Employment
Johns Hopkins Applied Physics Laboratory	Research & Development Systems Engineering	7,000
Howard County General Hospital	Medical Services	1,765
Verizon	Telecommunications	1,700
Lorien Health Systems	Nursing Care	1,190
Coastal Sunbelt Produce	Produce Processing	1,050
Wells Fargo	Financial Services	810
Nestle Dreyer's Ice Cream	Frozen Desserts	735
Maxim Healthcare Services	Medical Staffing/Wellness	675
Oracle	HQ/Software Development	650
Sysco Food Services	Produce Processing	515

Source: Maryland Department of Commerce, 2018.

Listed below are representative examples of other major private employers located in the County and the employment size in 2018. This list is presented for the purposes of demonstrating the diversity of employment opportunities in the County and is not intended to be a ranking of employers or an exhaustive list of all major private employers in the County.

### Other Major Private Employers

Employer	Products or Activities	Employment
Enterprise Community Partners	HQ/Community development	505
Humanim	Services for people with disabilities	475
Leidos	Engineering services/Cyber	450
Tenable Network Security	Software development/Cyber	440
W.R. Grace & Co.	HQ/Chemical R&D	600

Source: Maryland Department of Commerce, 2018

## Economic Development

The County is a major commercial center for the Washington-Baltimore region, with over 1,900 properties offering 76.5 million square feet of space to over 9,225 businesses. Several of the largest office and business parks in the Washington-Baltimore region are located in the County, including Columbia Gateway with 756 acres, Gateway Commerce Center with 164 acres, Maryland Wholesale Food Center with 400 acres and Rivers Corporate Park with 350 acres. The County is also home to Emerson Corporate Commons with 570 acres and Maple Lawn with 506 acres, both mixed-use developments with over 3 million square feet of office space. Downtown Columbia is experiencing substantial reinvestment by the County and Howard Hughes Corporation adding 4.3 million square feet of office space.

The following table presents statistics for the industrial and commercial space available in the metropolitan area of the County through the fourth quarter of 2018.

<b>Type of Space</b>	<b>Number of Buildings</b>	<b>Total Square Footage (000)</b>	<b>Total Available Square Footage (000)</b>	<b>Vacancy Rate</b>	<b>2018 Sq. Ft. Absorption (000)</b>
Flexible	219	11,436	543	4.7%	136
Industrial	382	31,757	1,711	5.4%	71
Office	552	19,364	1,576	8.1%	122
Retail	691	11,828	286	2.4%	(25)
<b>Total</b>	<b>1,844</b>	<b>74,386</b>	<b>4,115</b>	<b>5.5%</b>	<b>305</b>

Source: CoStar Realty Inc.

## **Retail Sales**

The fourth-largest shopping center in the region, the Mall in Columbia, is located in the County. At 1.4 million square feet, the Mall in Columbia features 215 stores and restaurants, including five major department stores and a 14-screen movie theater. Ten village centers throughout Columbia feature over 1.0 million square feet of retail space. Other shopping centers in the County in excess of 100,000 square feet are Columbia Crossing, Long Gate Shopping Center, Chatham Station Shopping Center, Dobbin Center, Normandy Shopping Center, Savage Mill, Enchanted Forest Shopping Center, Snowden Square, Gateway Overlook I and Gateway Overlook II. These centers offer over 4 million additional square feet of leasable space. Downtown Columbia reinvestment is bringing an additional 1.2 million square feet of experiential retail to the area.

## **Columbia**

Howard Research and Development Corporation (“HRD”) began the development of Columbia with initial land purchases in 1962. Today, Columbia is an unincorporated city built on 14,000 acres in the east-central portion of the County. Columbia has 99,615 residents, 5,500 businesses and 91,000 local jobs located in over 23 million square feet of commercial office, industrial and research and development buildings. Ten village centers, each providing a variety of day-to-day shopping needs and community and professional facilities and services, are now in operation. In addition, the Mall in Columbia, Columbia Crossing, Dobbin Center and Snowden Square provide 3.5 million square feet of retail stores, shops and restaurants. The redevelopment of the Wilde Lake Village Center is complete. Planning for the Long Reach Village Center and a \$70 million redevelopment of the Hickory Ridge Village Center has begun. HRD has also started a \$2.2 billion 20-year re-development of downtown Columbia surrounding the Mall in Columbia that will include up to 6,200 residential units, 1.25 million sq. ft. of retail space, 4.3 million sq. ft. of office space and a hotel.

If Columbia were to become a municipality, the Maryland Constitution provides that the County’s assessable base would not be affected. Services provided by the Columbia Association for Columbia residents, which include primarily provision of recreational facilities and maintenance of open space areas, are separate and distinct from the services provided by the County and are paid for through separate assessments made annually by the Columbia Association against residential and commercial property located in Columbia and facility user fees.

As of December 31, 2018, the Columbia Association had long-term debt of \$22.8 million in aggregate principal amount. As additional facilities are constructed, the amount of debt of the Columbia Association may increase. The interest on the Columbia Association’s debt is not tax-exempt. Payments on such property assessments are not deductible for federal income tax purposes, and liens for such property assessments are subordinate to liens for State and County real property taxes.

# Legal and Miscellaneous

## Approval of Legal Proceedings

All legal matters incident to the authorization, issuance and sale of the Bonds are subject to the approval of McKennon Shelton & Henn LLP, Bond Counsel. Delivery of the Bonds is conditioned upon delivery by Bond Counsel of opinions substantially in the forms included in Appendix A of this Official Statement.

## Tax Matters

The following is only a general summary of certain provisions of the Internal Revenue Code of 1986, as amended (the “Code”) as enacted and in effect on the date hereof and does not purport to be complete; holders of the Bonds should consult their own tax advisors as to the effects, if any, of the Code (and any proposed or subsequently enacted amendments to the Code) in their particular circumstances.

### Maryland Income Taxation

In the opinion of Bond Counsel, under existing statutes, regulations and decisions, the interest on the Bonds, and profit realized in the sale or exchange of the Bonds will be exempt from State of Maryland income taxation. No opinion is expressed as to estate or inheritance taxes, or any other taxes not levied or assessed directly on the Bonds, their transfer or the income therefrom. Under existing law, interest on the Bonds may be subject to state or local income taxes in jurisdictions other than the State of Maryland under applicable state or local tax laws. Purchasers of the Bonds should consult their own tax advisors with respect to the taxable status of the Bonds in jurisdictions other than the State of Maryland.

### Federal Income Taxation

In the opinion of Bond Counsel, assuming compliance with certain covenants described herein and under existing statutes, regulations, and decisions, interest on the Bonds will be excludable from gross income for federal income tax purposes.

Under the provisions of the Code, there are certain restrictions that must be met subsequent to the delivery of the Bonds, including restrictions that must be complied with throughout the term of the Bonds in order that the interest thereon be excludable from gross income. These include the following: (i) a requirement that certain earnings received from the investment of the proceeds of the Bonds be rebated to the United States of America under certain circumstances (or that certain payments in lieu of rebate be made); (ii) other requirements applicable to the investment of the proceeds of the Bonds; and (iii) other requirements applicable to the use of the proceeds of the Bonds and the facilities financed or refinanced with such proceeds. Failure to comply with one or more of these requirements could result in the inclusion of the interest payable on the Bonds in gross income for federal income tax purposes, effective from the date of their issuance. The County has covenanted to regulate the investment of the proceeds of the Bonds and to take such other actions as may be required to maintain the excludability from gross income for federal income tax purposes of interest on the Bonds.

Further, under existing statutes, regulations and decisions, Bond Counsel is of the opinion that interest on the Bonds is not included in the alternative minimum taxable income of individuals as an enumerated item of tax preference or other specific adjustment. In addition, interest income on the Bonds will be includable in the applicable taxable base for the purpose of determining the branch profits tax imposed by the Code on certain foreign corporations engaged in a trade or business in the United States of America.

In rendering its opinion, Bond Counsel will rely, without independent investigation on the representations of certain officials of the County made on behalf of the County in its Tax and Section 148 Certificate with respect to certain material facts within the knowledge of the County relevant to the tax-exempt status of interest on the Bonds.

## **Additional Federal Tax Considerations**

There are other federal income tax consequences of ownership of obligations such as the Bonds under certain circumstances, including the following: (i) deductions are disallowed for certain expenses of taxpayers allocable to interest on tax-exempt obligations, as well as interest on indebtedness incurred or continued to purchase or carry tax-exempt obligations and interest expense of financial institutions allocable to tax-exempt interest; (ii) for property and casualty insurance companies, the amount of the deduction for losses incurred must be reduced by 25% of the sum of tax-exempt interest income and the deductible portion of dividends received by such companies; (iii) interest income that is exempt from tax must be taken into account for the purpose of determining whether, and what amount of, social security or railroad retirement benefits are includable in gross income for federal income tax purposes; (iv) for S corporations having Subchapter C earnings and profits, the receipt of certain levels of passive investment income, which includes interest on tax-exempt obligations such as the Bonds, can result in the imposition of tax on such passive investment income and, in some cases, loss of S corporation status; (v) net gain realized upon the sale or other disposition of the Bonds generally must be taken into account when computing the 3.8% Medicare tax with respect to net investment income imposed on certain high income individuals and specific trusts or estates; and (vi) receipt of certain investment income, including interest on the Bonds, is considered when determining qualification limits for obtaining the earned income credit provided by Section 32(a) of the Code.

## **Tax Accounting Treatment of Tax-Exempt Discount Bonds**

Certain maturities of the Bonds may be issued at an initial public offering price which is less than the amount payable on such Bonds at maturity (the "Tax-Exempt Discount Bonds"). The difference between the initial offering price at which a substantial amount of the Tax-Exempt Discount Bonds of each maturity was sold, and the principal amount of such Tax-Exempt Discount Bonds payable at maturity constitutes original issue discount. In the case of any holder of Tax-Exempt Discount Bonds, the amount of such original issue discount that is treated as having accrued with respect to such Tax-Exempt Discount Bonds is added to the original cost basis of the holder in determining, for federal income tax purposes, gain or loss upon disposition (including sale, early redemption or repayment at maturity). For federal income tax purposes (a) any holder of a Tax-Exempt Discount Bond will recognize gain or loss upon the disposition of such security (including sale, early redemption or payment at maturity) in an amount equal to the difference between (i) the amount received upon such disposition and (ii) the sum of (1) the holder's original cost basis in such Tax-Exempt Discount Bond, and (2) the amount of original issue discount attributable to the period during which the holder held such Tax-Exempt Discount Bond, and (b) the amount of the basis adjustment described in clause (a)(ii)(2) will not be included in the gross income of the holder.

Original issue discount on Tax-Exempt Discount Bonds will be attributed to permissible compounding periods during the life of any Tax-Exempt Discount Bonds in accordance with a constant rate of interest accrual method. The yield to maturity of the Tax-Exempt Discount Bonds of each maturity is determined using permissible compounding periods. In general, the length of a permissible compounding period cannot exceed the length of the interval between debt service payments on the Tax-Exempt Discount Bonds and must begin or end on the date of such payments. Such yield then is used to determine an amount of accrued interest for each permissible compounding period. For this purpose, interest is treated as compounding periodically at the end of each applicable compounding period. The amount of original issue discount that is treated as having accrued in respect of a Tax-Exempt Discount Bond for any particular compounding period is equal to the excess of (a) the product of (i) the yield for such Tax-Exempt Discount Bond (adjusted as necessary for an initial short period) divided by the number of compounding periods in a year multiplied by (ii) the amount that would be the tax basis of such Tax-Exempt Discount Bond at the beginning of such period if held by an original purchaser who purchased at the initial public offering price, over (b) the amount actually payable as interest on such Tax-Exempt Discount Bond during such period. For purposes of the preceding sentence the tax basis of a Tax-Exempt Discount Bond, if held by an original purchaser, can be determined by adding to the initial public offering price of such Tax-Exempt Discount Bond the original issue discount that is treated as having accrued during all prior compounding periods. If a Tax-Exempt Discount Bond is sold or otherwise disposed of between compounding dates, then interest which would have accrued for that compounding period for federal income tax purposes is to be apportioned in equal amounts among the days in such compounding period.

Holders of Tax-Exempt Discount Bonds should note that, under the tax regulations, the yield and maturity of a Tax-Exempt Discount Bond is determined without regard to commercially reasonable sinking fund payments, and any original issue discount remaining unaccrued at the time that a Tax-Exempt Discount Bond is redeemed in advance of stated maturity will be treated as taxable gain.

Moreover, tax regulations prescribe special conventions for determining the yield and maturity of certain debt instruments that provide for alternative payment schedules applicable on the occurrence of certain contingencies. The

prices or yields furnished by the successful bidder for the Bonds as shown on the inside cover of this Official Statement may not reflect the initial issue prices for the purpose of determining the original issue discount for federal income tax purposes.

The foregoing summarizes certain federal income tax consequences of original issue discount with respect to the Tax-Exempt Discount Bonds but does not purport to deal with all aspects of federal income taxation that may be relevant to particular investors or circumstances, including those set out above. Prospective purchasers of Tax-Exempt Discount Bonds should consider possible state and local income, excise or franchise tax consequences arising from original issue discount on Tax-Exempt Discount Bonds. In addition, prospective corporate purchasers should consider possible federal tax consequences arising from original issue discount on such Tax-Exempt Discount Bonds under the branch profits tax. The amount of original issue discount considered to have accrued may be reportable in the year of accrual for state and local tax purposes or for purposes of the branch profits tax without a corresponding receipt of cash with which to pay any tax liability attributable to such discount. Purchasers with questions concerning the detailed tax consequences of transactions in the Tax-Exempt Discount Bonds should consult their tax advisors.

## **Purchase, Sale and Retirement of Bonds**

Except as noted below in the case of market discount, the sale or other disposition of a Bond will normally result in capital gain or loss to its holder. A holder's initial tax basis in a Bond will be its cost.

Upon the sale or retirement of a Bond, for federal income tax purposes, a holder will recognize capital gain or loss upon the disposition of such security (including sale, early redemption or payment at maturity) in an amount equal to the difference between (a) the amount received upon such disposition and (b) the tax basis in such Bond, determined by adding to the original cost basis in such Bond the amount of original issue discount that is treated as having accrued as described above under "*Tax Matters — Tax Accounting Treatment of Tax-Exempt Discount Bonds.*" Such gain or loss will be a long-term capital gain or loss if at the time of the sale or retirement the Bond has been held for more than one year. Present law taxes both long and short-term capital gains of corporations at the rates applicable to ordinary income. For noncorporate taxpayers, however, short-term capital gains are taxed at the rates applicable to ordinary income, while net capital gains are taxed at lower rates. Net capital gains are the excess of net long-term capital gains (gains on capital assets held for more than one year) over net short-term capital losses.

## **Market Discount**

If a holder acquires a Bond after its original issuance at a discount below its principal amount (or in the case of a Bond issued at an original issue discount, at a price that produces a yield to maturity higher than the yield to maturity at which such Bond was first issued), the holder will be deemed to have acquired the Bond at "market discount," unless the amount of market discount is *de minimis*, as described in the following paragraph. If a holder that acquires a Bond with market discount subsequently realizes a gain upon the disposition of the Bond, such gain shall be treated as taxable interest income to the extent such gain does not exceed the accrued market discount attributable to the period during which the holder held such Bond, and any gain realized in excess of such market discount will be treated as capital gain. Potential purchasers should consult their tax advisors as to the proper method of accruing market discount.

In the case of a Bond not issued at an original issue discount, market discount will be *de minimis* if the excess of the Bond's stated redemption price at maturity over the holder's cost of acquiring the Bond is less than 0.25% of the stated redemption price at maturity multiplied by the number of complete years between the date the holder acquires the Bond and its maturity date. In the case of a Bond issued with original issue discount, market discount will be *de minimis* if the excess of the Bond's revised issue price over the holder's cost of acquiring the Bond is less than 0.25% of the revised issue price multiplied by the number of complete years between the date the holder acquires the Bond and its stated maturity date. For this purpose, a "revised issue price" is the sum of (i) its original issue price and (ii) the aggregate amount of original issue discount that is treated as having accrued with respect to the Bond during the period between its original issue date and the date of acquisition by the holder.

## **Amortizable Bond Premium**

A Bond will be considered to have been acquired at a premium if, and to the extent that, immediately after the acquisition of such Bond, the holder's tax basis in the Bond exceeds the amount payable at maturity (or, in the case of a Bond callable prior to maturity, the amount payable on the earlier call date). Under tax regulations applicable to the Bonds, the amount of the premium would be determined with reference to the amount payable on that call date

(including for this purpose the maturity date) which produces the lowest yield to maturity on the Bonds. The holder will be required to reduce his tax basis in the Bond for purposes of determining gain or loss upon disposition of the Bond by the amount of amortizable bond premium that accrues, determined in the manner prescribed in the regulations. Generally, no deduction (or other tax benefit) is allowable in respect of any amount of amortizable bond premium on the Bonds.

## **Legislative Developments**

Legislative proposals recently under consideration or proposed after issuance and delivery of the Bonds could adversely affect the market value of the Bonds. Further, if enacted into law, any such proposal could cause the interest on the Bonds to be subject, directly or indirectly, to federal or state income taxation and could otherwise alter or amend one or more of the provisions of federal or state tax law described above or their consequences, as applicable. Prospective purchasers of the Bonds should consult with their tax advisors as to the status and potential effect of any legislative proposals, as to which Bond Counsel expresses no opinion.

## **Ratings**

Fitch Ratings, Moody's Investors Service and S&P Global Ratings, have given the Bonds the ratings indicated on the cover page of this Official Statement. An explanation of the significance of any rating may be obtained from the appropriate rating agency. The County furnished to each rating agency the information contained in a preliminary Official Statement and other materials and information. Generally, rating agencies base their ratings on such materials and information, as well as their own investigations, studies and assumptions. Each rating may be changed at any time and no assurance can be given that it will not be revised downward or withdrawn by the applicable rating agency if, in the judgment of such rating agency, circumstances should warrant such action. Any such downward revision or withdrawal of any rating could have an adverse effect on the market price of the Bonds.

## **Litigation**

The County is a party to numerous legal proceedings of the type that normally occur in governmental operations. The pending legal proceedings are not, in the opinion of the County Solicitor, likely to have a material adverse impact on the County's financial condition. In addition, the County is currently reviewing and adjusting a number of claims through its self-insurance program. In the opinion of the County Solicitor, none of these pending matters is likely to have a material adverse impact on the County's financial condition, nor should there be any substantial recovery against the County in amounts in excess of reserved funds.

## **Independent Auditors**

The basic financial statements of Howard County, Maryland for the year ended June 30, 2018 have been audited by CliftonLarsonAllen LLP, independent certified public accountants, to the extent stated in their report. The independent accountants were not requested to review or update such financial statements or their report in connection with the issuance of the Bonds. Such report speaks only as of its date and is available at [www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits](http://www.howardcountymd.gov/Departments/Finance/Financial-Information/Audits).

## **Financial Advisor**

Davenport & Company LLC of Towson, Maryland, has acted as financial advisor to the County in connection with the issuance of the Bonds. Davenport & Company LLC is not obligated to undertake, and has neither undertaken an independent verification of, or assumed responsibility for the accuracy, completeness or fairness of the information contained in this Official Statement.

## **Sales at Public Bidding**

The Bonds were offered for sale by the County at public bidding on May 15, 2019, in accordance with the official Notices of Sale. Morgan Stanley & Co, LLC was awarded the Public Improvement Bonds at a price of \$146,014,261.53. Robert W. Baird & Co., Inc. was awarded the Metropolitan District Bonds at a price of \$70,838,069.79. The initial public reoffering prices set forth on the inside cover page are based on information furnished to the County by the successful bidder and may be changed by the successful bidder. The successful bidder may reoffer and sell the Bonds that it has purchased to certain dealers (including dealers depositing bonds into investment trusts) and others at prices lower than

the reoffering prices set forth on the cover page. Any other information concerning the terms of reoffering of the Bonds of each series, if any, including yields or prices, should be obtained from the successful bidder therefor and not from the County.

Morgan Stanley & Co. LLC., an underwriter of the Bonds, has entered into a distribution agreement with its affiliate, Morgan Stanley Smith Barney LLC. As part of the distribution arrangement, Morgan Stanley & Co. LLC may distribute municipal securities to retail investors through the financial advisor network of Morgan Stanley Smith Barney LLC. As part of this arrangement, Morgan Stanley & Co. LLC may compensate Morgan Stanley Smith Barney LLC for its selling efforts with respect to the Bonds.

## **Verification of Mathematical Computations**

The arithmetical accuracy of certain computations included in the schedules provided by the Financial Advisor on behalf of the County relating to (a) computation of forecasted receipts of principal and interest on the Government Obligations and cash held uninvested in the Escrow Deposit Fund and the forecasted payments of principal, redemption premium (if any) and interest on the Refunded Bonds, and (b) computation of the yields on the Bonds and such Government Obligations was examined by Bingham Arbitrage Rebate Services, Inc.. Such computations were based solely upon assumptions and information supplied by the Financial Advisor on behalf of the County. Bingham Arbitrage Rebate Services, Inc. has restricted its procedures to examining the arithmetical accuracy of certain computations and has not made any study or evaluation of the assumptions and information upon which the computations are based and accordingly, has not expressed an opinion on the date used, the reasonableness of the assumptions, or the achievability of the forecasted outcome.

## **Certificate of County Officials**

Simultaneously with or before delivery of and payment for the Bonds, the County will furnish to the purchasers of the Bonds a certificate of the County Executive, the Chief Administrative Officer and the Director of Finance that will state that, to the best of their knowledge and belief, this Official Statement (and any amendment or supplement hereto) as of the date of sale and as of the date of delivery of the Bonds does not contain any untrue statement of material fact and does not omit to state a material fact necessary to make the statements herein, in the light of the circumstances under which they were made, not misleading, and that between the date of sale and the date of delivery of the Bonds there has been no material adverse change in the financial position or revenues of the County, except as reflected or contemplated in this Official Statement (and any amendment or supplement hereto).

## **Miscellaneous**

Any statements made in this Official Statement involving matters of opinion or estimates, whether or not expressly so stated, are set forth as such and not as representations of fact, and no representation is made that any estimates will be realized. Neither this Official Statement nor any statement which may have been made verbally or in writing is to be construed as a contract with the holders of any of the Bonds.

On April 1, 2019, Baird Financial Corporation, the parent company of Baird, acquired HL Financial Services, LLC, its subsidiaries, affiliates and assigns (collectively "Hilliard Lyons"). As a result of such common control, Baird, Hilliard Lyons and Hilliard Lyons Trust Company are now affiliated. It is expected that Hilliard Lyons will merge with and into Baird later in 2019.

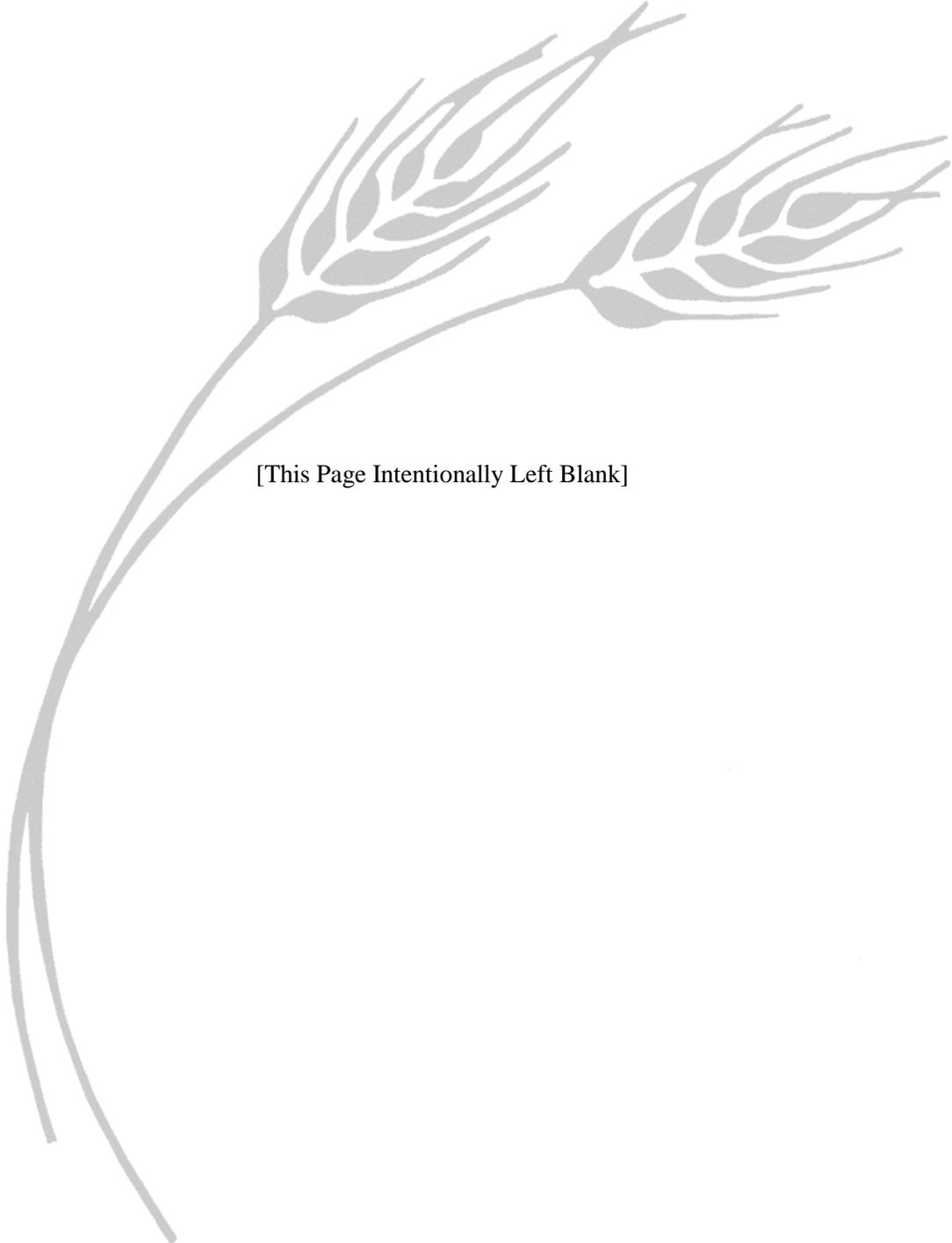
The execution and delivery of this Official Statement have been approved by Howard County, Maryland.

HOWARD COUNTY, MARYLAND

By: /S/ Calvin Ball  
CALVIN BALL  
County Executive

and

By: /S/ Janet R. Irvin  
JANET R. IRVIN  
Director of Finance



[This Page Intentionally Left Blank]

## Appendix A

### Form of Bond Counsel Opinions

[Closing Date]

County Executive and County Council  
of Howard County, Maryland  
3430 Court House Drive  
Ellicott City, Maryland 21043

County Executive and Council Members:

We have examined a record of proceedings relating to the issuance by Howard County, Maryland (the "County") of its Consolidated Public Improvement Project and Refunding Bonds, 2019 Series A (the "Bonds").

The Bonds are dated on their date of delivery and are issued in fully registered in form in the denomination of \$5,000 each or any integral multiple thereof. The Bonds are consolidated and issued pursuant to Section 10-203 of the Local Government Article of the Annotated Code of Maryland (2013 Replacement Volume and 2018 Supplement) (collectively, the "Enabling Law"), Section 19-207 of the Local Government Article of the Annotated Code of Maryland (2013 Replacement Volume and 2018 Supplement) (the "Refunding Act") Section 19-101 of the Local Government Article of the Annotated Code of Maryland (2013 Replacement Volume and 2018 Supplement) (the "Consolidating Act"), the County Charter (the "Charter"), certain bond enabling ordinances of the County Council of the County (the "Enabling Ordinances"), Council Bill No. 02-2019 enacted during the 2019 Legislative Session (the "Bond Ordinance"), Council Bill No. 62-2016 enacted by the County Council and effective on October 12, 2016 (the "Refunding Ordinance"), and Executive Order No. 2019-5, executed and delivered on May 13, 2019 (the "Executive Order").

In rendering this opinion, we have relied without investigation on the County's Tax and Section 148 Certificate dated this date made on behalf of the County by officers thereof with respect to certain material facts within the knowledge of the County relevant to the tax-exempt status of interest on the Bonds.

With respect to the executed and authenticated Bond that we have examined, and the Bonds similarly executed and identical thereto in form except for numbers, interest rates, denominations, and maturities, and under existing statutes, regulations, and decisions, we are of the opinion that:

(a) The County is a validly created and existing body politic and corporate and political subdivision of the State of Maryland, possessing authority under the Enabling Law, the Charter, the Consolidating Act, the Refunding Act, the Enabling Ordinances, the Bond Ordinance, the Refunding Ordinance and the Executive Order to issue the Bonds.

(b) The Bonds are valid and legally binding obligations of the County to which its full faith and credit and taxing power are pledged, and for the payment of which the County is empowered and directed to levy ad valorem taxes unlimited as to rate and amount upon all real and tangible personal property and certain intangible personal property subject to assessment for unlimited County taxation.

(c) To provide for the payment of the principal of and interest on the Bonds, the County has covenanted to levy or cause to be levied ad valorem taxes upon all the assessable property within the corporate limits of the County, in rate and amount sufficient for that purpose in each fiscal year in which provision must be made for the payment of such principal and interest.

(d) Interest on the Bonds, and profit realized from their sale or exchange, will be exempt from State of Maryland income taxation. No opinion is expressed as to estate or inheritance taxes, or any other taxes not levied or assessed directly on the Bonds, their transfer or the income therefrom.

(e) Assuming compliance with certain covenants referred to herein, interest on the Bonds will be excludable from gross income for federal income tax purposes. It is noted that under the provisions of the Internal Revenue Code of 1986, as amended (the "Code"), there are certain restrictions that must be met subsequent to the

delivery of the Bonds, including restrictions that must be complied with throughout the term of the issue of bonds of which the Bonds are a part in order that the interest thereon be excludable from gross income. These include the following: (i) a requirement that certain earnings received from the investment of the proceeds of the issue of bonds of which the Bonds are a part be rebated (or that certain payments in lieu of rebate be made) to the United States of America under certain circumstances; (ii) other requirements applicable to the investment of the proceeds of the issue of bonds of which the Bonds are a part; and (iii) requirements applicable to the use of the proceeds of the issue of bonds of which the Bonds are a part and the use of the facilities financed or refinanced with such proceeds. Failure to comply with one or more of these requirements could result in the inclusion of the interest payable on the Bonds in gross income for federal income tax purposes, effective from the date of their issuance. The County has covenanted to regulate the investment of the proceeds of the issue of bonds of which the Bonds are a part and to take such other actions as may be required to maintain the excludability of interest on the Bonds from gross income for federal income tax purposes.

(f) Interest on the Bonds is not includable in the alternative minimum taxable income of individuals as an enumerated item of tax preference or other specific adjustment. Interest income on the Bonds will be includable in the applicable taxable base for the purpose of determining the branch profits tax imposed by the Code on certain foreign corporations engaged in a trade or business in the United States of America.

We express no opinion with respect to any other federal or state tax consequences under the present law or any proposed legislation resulting from the receipt of interest on, or the acquisition or disposal of the Bonds.

The opinions expressed above are limited to the matters set forth above, and no other opinions should be inferred beyond the matters expressly stated. We assume no obligation to supplement this opinion if any applicable laws or interpretations thereof change after the date hereof or if we become aware of any facts or circumstances that might change the opinions expressed herein after the date hereof.

Very truly yours,

[Closing Date]

County Executive and County Council  
of Howard County, Maryland  
3430 Court House Drive  
Ellicott City, Maryland 21043

County Executive and Council Members:

We have examined a record of proceedings relating to the issuance by Howard County, Maryland (the "County") of its Metropolitan District Project and Refunding Bonds, 2019 Series B (the "Bonds").

The Bonds are dated on their date of delivery and are issued in fully registered in form in the denomination of \$5,000 each or any integral multiple thereof. The Bonds are consolidated and issued pursuant to Section 10-203 of the Local Government Article of the Annotated Code of Maryland (2013 Replacement Volume and 2018 Supplement) (collectively, the "Enabling Law"), Section 19-207 of the Local Government Article of the Annotated Code of Maryland (2013 Replacement Volume and 2018 Supplement) (the "Refunding Act"), the County Charter (the "Charter"), Chapter 991 of the Acts of the General Assembly of Maryland of 1943, as amended, Chapter 609 of the Acts of the General Assembly of Maryland of 1945, as amended, Chapter 369 of the Acts of the General Assembly of Maryland of 1963, as amended and Chapter 356 of the Acts of the General Assembly of Maryland of 1965, as amended (collectively, the "Acts"), certain bond enabling ordinances of the County Council of the County (the "Enabling Ordinances"), Council Bill No. 02-2019 enacted during the 2019 Legislative Session (the "Bond Ordinance"), Council Bill No. 62-2016 enacted by the County Council and effective on October 12, 2016 (the "Refunding Ordinance"), and Executive Order No. 2019-5, executed and delivered on May 13, 2019 (the "Executive Order").

In rendering this opinion, we have relied without investigation on the County's Tax and Section 148 Certificate dated this date made on behalf of the County by officers thereof with respect to certain material facts within the knowledge of the County relevant to the tax-exempt status of interest on the Bonds.

With respect to the executed and authenticated Bond that we have examined, and the Bonds similarly executed and identical thereto in form except for numbers, interest rates, denominations, and maturities, and under existing statutes, regulations and decisions, we are of the opinion that:

(a) The County is a validly created and existing body politic and corporate and political subdivision of the State of Maryland, possessing authority under the Enabling Law, the Refunding Act, the Charter, the Acts, the Enabling Ordinances, the Bond Ordinance, the Refunding Ordinance and the Executive Order to issue the Bonds.

(b) The Bonds are valid and legally binding obligations of the County to which its full faith and credit and taxing power are pledged, payable primarily from ad valorem taxes, unlimited in rate and amount, which the County is empowered to levy upon all taxable property within the Metropolitan District of the County, together with benefit assessments and other available funds, but if not so paid, are payable as to both principal and interest, as general obligations, ultimately from ad valorem taxes, unlimited in rate and amount, which the County is empowered to levy upon all real and tangible personal property and certain intangible personal property subject to assessment for unlimited County taxation.

(c) Interest on the Bonds, and profit realized from their sale or exchange will be exempt from State of Maryland income taxation. No opinion is expressed as to estate or inheritance taxes, or any other taxes not levied or assessed directly on the Bonds, their transfer or the income therefrom.

(d) Assuming compliance with certain covenants referred to herein, interest on the Bonds will be excludable from gross income for federal income tax purposes. It is noted that under the provisions of the Internal Revenue Code of 1986, as amended (the "Code"), there are certain restrictions that must be met subsequent to the delivery of the Bonds, including restrictions that must be complied with throughout the term of the issue of bonds of which the Bonds are a part, in order that the interest thereon be excludable from gross income. These include the following: (i) a requirement that certain earnings received from the investment of the proceeds of the issue of bonds of which the Bonds are a part be rebated (or that certain payments in lieu of rebate be made) to the United States of America under certain circumstances; (ii) other requirements applicable to the investment of the proceeds of the issue of bonds of which the Bonds are a part; and (iii) requirements applicable to the use of the proceeds of the issue of bonds of which the Bonds are a part and the use of the facilities financed or refinanced with such proceeds. Failure to comply with one or more of these requirements could result in the inclusion of the interest payable on the Bonds in gross income for

federal income tax purposes, effective from the date of their issuance. The County has covenanted to regulate the investment of the proceeds of the issue of bonds of which the Bonds are a part and to take such other actions as may be required to maintain the excludability of interest on the Bonds from gross income for federal income tax purposes.

(e) Interest on the Bonds is not includable in the alternative minimum taxable income of individuals as an enumerated item of tax preference or other specific adjustment. Interest income on the Bonds will be includable in the applicable taxable base for the purpose of determining the branch profits tax imposed by the Code on certain foreign corporations engaged in a trade or business in the United States of America.

We express no opinion with respect to any other federal or state tax consequences under the present law or any proposed legislation resulting from the receipt of interest on, or the acquisition or disposal of the Bonds.

The opinions expressed above are limited to the matters set forth above, and no other opinions should be inferred beyond the matters expressly stated. We assume no obligation to supplement this opinion if any applicable laws or interpretations thereof change after the date hereof or if we become aware of any facts or circumstances that might change the opinions expressed herein after the date hereof.

Very truly yours,

# Continuing Disclosure Agreement

This CONTINUING DISCLOSURE AGREEMENT (the “Disclosure Agreement”) is executed and delivered by Howard County, Maryland (the “County”) in connection with the issuance of its Consolidated Public Improvement Project and Refunding Bonds, 2019 Series A and its Metropolitan District Project and Refunding Bonds, 2019 Series B (together, the “Bonds”). The County, intending to be legally bound hereby and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, does hereby covenant and agree as follows:

## Section 1. Purpose of the Disclosure Agreement.

This Disclosure Agreement is being executed and delivered by the County for the benefit of the beneficial owners of the Bonds and in order to assist the Participating Underwriters in complying with Securities and Exchange Commission Rule 15c2-12(b)(5).

## Section 2. Definitions.

In addition to the definitions set forth above, which apply to any capitalized term used in this Disclosure Agreement unless otherwise defined in this Section, the following capitalized terms shall have the following meanings:

“**Dissemination Agent**” shall mean the County, acting as Dissemination Agent hereunder, or any successor Dissemination Agent designated in writing by the County.

“**EMMA**” shall mean Electronic Municipal Market Access System maintained by the MSRB. For more information on EMMA, see [www.emma.msrb.org](http://www.emma.msrb.org).

“**Financial Obligation**” means a (i) debt obligation; (ii) derivative instrument entered into in connection with, or pledged as security or a source of payment for, an existing or planned debt obligation; or (iii) guarantee of (i) or (ii). The term Financial Obligation shall not include municipal securities as to which a final official statement has been provided to the MSRB consistent with the Rule.

“**Listed Events**” shall mean any of the events listed in Section 4(a) of this Disclosure Agreement.

“**MSRB**” shall mean the Municipal Securities Rulemaking Board, established pursuant to Section 15B(b)(1) of the Securities Exchange Act of 1934, as amended.

“**Participating Underwriter**” shall mean any of the original underwriters of the Bonds required to comply with the Rule in connection with offering of the Bonds.

“**Rule**” shall mean Rule 15c2-12(b)(5) adopted by the Securities and Exchange Commission under the Securities Exchange Act of 1934, as the same may be amended from time to time.

“**State**” shall mean the State of Maryland.

## Section 3. Provision of Annual Financial Information, Operating Data and Audited Information.

(a) The County shall provide to the MSRB annual financial information and operating data set forth in the “Financial Information” Section of the Official Statement under the heading “Total Property Tax Levies and Collections,” and information regarding assessed accrual value of and county direct tax rate on real and personal property set forth in the “Financial Information” section of the Official Statement under the heading “Assessed Values, Tax Rates and Tax Levies”, each to be updated as of the end of the preceding fiscal year, utilizing the same accounting principles as were used in preparing such information for the Official Statement subject to changes in Generally Accepted Accounting Principles, and shall be made available within 275 days after the end of the County’s fiscal year.

(b) The County shall provide to the MSRB annual audited financial statements for the County, such information to be made available within 275 days after the end of the County's fiscal year, unless the audited financial statements are not available on or before such date, in which event said financial statements will be provided promptly when and if available. In the event that audited financial statements are not available within 275 days after the end of the County's fiscal year, the County will provide unaudited financial statements within said time period.

(c) The presentation of the financial information referred to in paragraph (a) and in paragraph (b) shall be made in accordance with the same accounting principles as utilized in connection with the presentation of applicable comparable financial information included in the final official statement for the Bonds, provided that the County may modify the accounting principles utilized in the presentation of financial information by amending this Disclosure Agreement pursuant to the provisions of Section 7 hereof. Changes in Generally Accepted Accounting Principles, where applicable to financial information to be provided by the County, shall not require the County to amend this Disclosure Agreement.

(d) If the County is unable to provide the annual financial information and operating data within the applicable time periods specified in (a) and (b) above, the County shall send in a timely manner a notice of such failure to the MSRB.

#### **Section 4. Reporting of Significant Events.**

(a) This Section 4 shall govern the giving of notices of the occurrence of any of the following events with respect to the Bonds:

- (1) principal and interest payment delinquencies;
- (2) non-payment related defaults, if material;
- (3) unscheduled draws on debt service reserves reflecting financial difficulties;
- (4) unscheduled draws on credit enhancements reflecting financial difficulties;
- (5) substitution of credit or liquidity providers, or their failure to perform;
- (6) adverse tax opinions, the issuance by the Internal Revenue Service of proposed or final determinations of taxability, Notices of Proposed Issue (IRS Form 5701-TEB) or other material notices or determinations with respect to the tax status of the Bonds or other material events affecting the tax status of the Bonds;
- (7) modifications to rights of Bondholders, if material;
- (8) bond calls, if material, and tender offers;
- (9) defeasances;
- (10) release, substitution or sale of property securing repayment of the Bonds, if material;
- (11) rating changes;
- (12) bankruptcy, insolvency, receivership or similar event of the County;<sup>1</sup>
- (13) appointment of a successor or additional trustee or the change of name of a trustee, if material;

---

<sup>1</sup> For the purposes of the event identified in clause (12) above, the event is considered to occur when any of the following occur: the appointment of a receiver, fiscal agent or similar officer for the County a proceeding under the U.S. Bankruptcy Code or in any other proceeding under state or federal law in which a court or governmental authority has assumed jurisdiction over substantially all of the assets or business of the County or if such jurisdiction has been assumed by leaving the existing governing body and officials or officers in possession but subject to the supervision and orders of a court or governmental authority, or the entry of an order confirming a plan of reorganization, arrangement or liquidation by a court or governmental authority having supervision or jurisdiction over substantially all of the assets or business of the County

- (14) the consummation of a merger, consolidation, or acquisition involving the County or the sale of all or substantially all of the assets of the County, other than in the ordinary course of business, the entry into a definitive agreement to undertake such an action or the termination of a definitive agreement relating to any such actions, other than pursuant to its terms, if material;
- (15) incurrence of a Financial Obligation of the County, if material, or agreement to covenants, events of default, remedies, priority rights, or other similar terms of a Financial Obligation of the County, any of which affect bondholders, if material; and
- (16) default, event of acceleration, termination event, modification of terms, or other similar events under the terms of a financial obligation of the County, any of which reflects financial difficulties.

(b) In a timely manner, not in excess of ten business days after the occurrence of an event listed in Section 4(a) above, the County shall file a notice of such occurrence with the MSRB.

**Section 5. Filing with EMMA.**

Unless otherwise required by the MSRB, all filings with the MSRB shall be made with EMMA and shall be accompanied by indentifying information as prescribed by the MSRB.

**Section 6. Termination of Reporting Obligation.**

The County obligations under this Disclosure Agreement shall terminate upon the payment in full of all of the Bonds either at their maturity or by early redemption. In addition, the County may terminate its obligations under this Disclosure Agreement if and when the County no longer remains an obligated person with respect to the Bonds within the meaning of Securities and Exchange Commission Rule 15c2-12.

**Section 7. Amendment.**

The County may provide further or additional assurances that will become part of the County's obligations under the Disclosure Agreement. In addition, this Disclosure Agreement may be amended by the County in its discretion provided that (i) the amendment may only be made in connection with a change in circumstances that arises from a change in legal requirements, change in law, or change in the identity, nature, or status of the County as the obligated person with respect to the Bonds, or type of business conducted; (ii) the Disclosure Agreement, as amended, would have complied with the requirements of the Rule at the time of the issuance of the Bonds, after taking into account any amendments or interpretations of the Rule, as well as any change in circumstances; and (iii) the amendment does not materially impair the interests of holders of the Bonds, as determined either by counsel selected by the County that is expert in federal securities law matters, or by an approving vote of the holders of 25% of the outstanding aggregate principal amount of Bonds. The reasons for the County agreeing to provide any further or additional assurances or for any amendment and the impact of the change in the type of operating data or financial information being provided will be explained in information provided with the annual financial information containing the additional or amended operating data or financial information.

**Section 8. Additional Information.**

Nothing in this Disclosure Agreement shall be deemed to prevent the County from disseminating any other information, using the means of dissemination set forth in this Disclosure Agreement or any other means of communication, or including any other information in any disclosure made pursuant to Section 4(a) or (b) hereof or notice of occurrence of a Listed Event in addition to that which is required by this Disclosure Agreement. If the County chooses to include any information in any disclosure made pursuant to Section 4(a) or (b) hereof or notice of occurrence of a Listed Event in addition to that which is specifically required by this Disclosure Agreement, the County shall have no obligation under this Disclosure Agreement to update such information or include it in any future disclosure made pursuant to Section 4(a) or (b) hereof or notice of occurrence of a Listed Event.

**Section 9. Dissemination Agent.**

The County may, from time to time, appoint or engage a Dissemination Agent to assist it in carrying out its obligations under this Disclosure Agreement, and may discharge any such Dissemination Agent, with or without

appointing a successor Dissemination Agent. The Dissemination Agent shall not be responsible in any manner for the content of any notice or report prepared by the County pursuant to this Disclosure Agreement. If at any time there is not any other designated Dissemination Agent, the County shall be the Dissemination Agent.

**Section 10. Law of Maryland.**

This Disclosure Agreement, and any claim made with respect to the performance by the County of its obligations hereunder, shall be governed by, subject to, and construed according to the laws of the State.

**Section 11. Limitation of Forum.**

Any suit or other proceeding seeking redress with regard to any claimed failure by the County to perform its obligations under this Disclosure Agreement must be filed in the Circuit Court of Howard County, Maryland.

**Section 12. Limitation on Remedies.**

The County shall be given written notice at the address set forth below of any claimed failure by the County to perform its obligations under the Disclosure Agreement, and the County shall be given 15 days to remedy any such claimed failure. Any suit or other proceeding seeking further redress with regard to any such claimed failure by the County shall be limited to specific performance as the adequate and exclusive remedy available in connection with such action. Written notice to the County shall be given to the Director of Finance at 3540 Court House Drive, Ellicott City, Maryland 21043 or at such alternate address as shall be specified by the County with disclosures made pursuant to Section 4(a) or 4(b) hereof or a notice of occurrence of a Listed Event.

**Section 13. Relationship to Bonds.**

This Disclosure Agreement constitutes an undertaking by the County that is independent of the County's obligations with respect to the Bonds; any breach or default by the County under this Disclosure Agreement shall not constitute or give rise to a breach or default under the Bonds.

**Section 14. Beneficiaries.**

This Disclosure Agreement shall inure solely to the benefit of the beneficial owners from time to time of the Bonds, and shall create no rights in any other person or entity.

IN WITNESS WHEREOF this Continuing Disclosure Agreement is being executed on behalf of Howard County, Maryland by the Director of Finance, as of this \_\_\_\_ day of \_\_\_\_\_, 2019.

HOWARD COUNTY, MARYLAND

By: \_\_\_\_\_  
Janet R. Irvin  
Director of Finance

## Appendix C

# Bond Amortization Tables

### \$133,630,000 Consolidated Public Improvement Project and Refunding Bonds, 2019 Series A

Date	Principal Maturity	Interest Rate	Semiannual Interest	Semiannual Debt Service	Annual Debt Service
8/15/2019	\$ 4,670,000	5.000%	\$ 1,241,804	\$ 5,911,804	
2/15/2020	-		2,576,997	2,576,997	\$ 8,488,801
8/15/2020	15,215,000	5.000%	2,460,247	17,675,247	
2/15/2021	-		2,460,247	2,460,247	20,135,494
8/15/2021	9,235,000	5.000%	2,154,622	11,389,622	
2/15/2022	-		2,154,622	2,154,622	13,544,244
8/15/2022	9,515,000	5.000%	1,989,372	11,504,372	
2/15/2023	-		1,851,122	1,851,122	13,355,494
8/15/2023	4,185,000	5.000%	1,748,997	5,933,997	
2/15/2024	-		1,748,997	1,748,997	7,682,994
8/15/2024	4,400,000	5.000%	1,641,684	6,041,684	
2/15/2025	-		1,641,684	1,641,684	7,683,368
8/15/2025	4,630,000	5.000%	1,528,809	6,158,809	
2/15/2026	-		1,528,809	1,528,809	7,687,618
8/15/2026	4,865,000	5.000%	1,410,122	6,275,122	
2/15/2027	-		1,410,122	1,410,122	7,685,244
8/15/2027	5,115,000	5.000%	1,285,372	6,400,372	
2/15/2028	-		1,285,372	1,285,372	7,685,744
8/15/2028	5,375,000	5.000%	1,154,247	6,529,247	
2/15/2029	-		1,154,247	1,154,247	7,683,494
8/15/2029	5,655,000	5.000%	1,016,372	6,671,372	
2/15/2030	-		1,016,372	1,016,372	7,687,744
8/15/2030	5,910,000	4.000%	886,584	6,796,584	
2/15/2031	-		886,584	886,584	7,683,168
8/15/2031	6,155,000	4.000%	765,934	6,920,934	
2/15/2032	-		765,934	765,934	7,686,868
8/15/2032	6,370,000	3.000%	656,609	7,026,609	
2/15/2033	-		656,609	656,609	7,683,218
8/15/2033	6,565,000	3.000%	559,597	7,124,597	
2/15/2034	-		559,597	559,597	7,684,194
8/15/2034	6,760,000	2.750%	463,884	7,223,884	
2/15/2035	-		463,884	463,884	7,687,768
8/15/2035	6,945,000	2.750%	369,663	7,314,663	
2/15/2036	-		369,663	369,663	7,684,326
8/15/2036	7,145,000	2.875%	270,561	7,415,561	
2/15/2037	-		270,561	270,561	7,686,122
8/15/2037	7,350,000	2.875%	166,378	7,516,378	
2/15/2038	-		166,378	166,378	7,682,756
8/15/2038	7,570,000	3.000%	113,550	7,683,550	
<b>TOTAL</b>	<b>\$133,630,000</b>		<b>\$44,852,210</b>	<b>\$178,482,210</b>	<b>\$178,482,210</b>

\*Table may not add due to rounding.

**\$66,605,000 Metropolitan District Project and Refunding Bonds, 2019 Series B**

<b>Date</b>	<b>Principal</b>	<b>Maturity</b>	<b>Interest Rate</b>	<b>Semiannual Interest</b>	<b>Semiannual Debt Service</b>	<b>Annual Debt Service</b>
8/15/2019	\$	1,655,000	5.000%	\$ 519,819	\$ 2,174,819	
2/15/2020		-		1,189,775	1,189,775	\$ 3,364,594
8/15/2020		1,085,000	5.000%	1,176,213	2,261,213	
2/15/2021		-		1,176,213	1,176,213	3,437,425
8/15/2021		1,315,000	5.000%	1,146,213	2,461,213	
2/15/2022		-		1,146,213	1,146,213	3,607,425
8/15/2022		1,555,000	5.000%	1,110,338	2,665,338	
2/15/2023		-		1,110,338	1,110,338	3,775,675
8/15/2023		1,640,000	5.000%	1,070,400	2,710,400	
2/15/2024		-		1,070,400	1,070,400	3,780,800
8/15/2024		1,950,000	5.000%	1,025,525	2,975,525	
2/15/2025		-		1,025,525	1,025,525	4,001,050
8/15/2025		2,050,000	5.000%	975,525	3,025,525	
2/15/2026		-		975,525	975,525	4,001,050
8/15/2026		2,155,000	5.000%	922,963	3,077,963	
2/15/2027		-		922,963	922,963	4,000,925
8/15/2027		2,275,000	5.000%	867,588	3,142,588	
2/15/2028		-		867,588	867,588	4,010,175
8/15/2028		2,385,000	5.000%	809,338	3,194,338	
2/15/2029		-		809,338	809,338	4,003,675
8/15/2029		2,215,000	5.000%	751,838	2,966,838	
2/15/2030		-		751,838	751,838	3,718,675
8/15/2030		2,070,000	4.000%	703,450	2,773,450	
2/15/2031		-		703,450	703,450	3,476,900
8/15/2031		1,855,000	4.000%	664,200	2,519,200	
2/15/2032		-		664,200	664,200	3,183,400
8/15/2032		1,930,000	4.000%	626,350	2,556,350	
2/15/2033		-		626,350	626,350	3,182,700
8/15/2033		2,000,000	3.000%	592,050	2,592,050	
2/15/2034		-		592,050	592,050	3,184,100
8/15/2034		2,060,000	3.000%	561,600	2,621,600	
2/15/2035		-		561,600	561,600	3,183,200
8/15/2035		2,125,000	3.000%	530,213	2,655,213	
2/15/2036		-		530,213	530,213	3,185,425
8/15/2036		2,190,000	3.000%	497,850	2,687,850	
2/15/2037		-		497,850	497,850	3,185,700
8/15/2037		2,255,000	3.000%	464,513	2,719,513	
2/15/2038		-		464,513	464,513	3,184,025
8/15/2038		2,325,000	3.000%	430,163	2,755,163	
2/15/2039		-		430,163	430,163	3,185,325
8/15/2039		2,395,000	3.000%	394,763	2,789,763	
2/15/2040		-		394,763	394,763	3,184,525
8/15/2040		2,470,000	3.000%	358,275	2,828,275	
2/15/2041		-		358,275	358,275	3,186,550
8/15/2041		2,545,000	3.000%	320,663	2,865,663	
2/15/2042		-		320,663	320,663	3,186,325
8/15/2042		2,620,000	3.000%	281,925	2,901,925	
2/15/2043		-		281,925	281,925	3,183,850
8/15/2043		2,700,000	3.000%	242,025	2,942,025	
2/15/2044		-		242,025	242,025	3,184,050
8/15/2044		2,785,000	3.000%	200,888	2,985,888	
2/15/2045		-		200,888	200,888	3,186,775
8/15/2045		2,865,000	3.000%	158,513	3,023,513	
2/15/2046		-		158,513	158,513	3,182,025
8/15/2046		2,955,000	3.000%	114,863	3,069,863	
2/15/2047		-		114,863	114,863	3,184,725
8/15/2047		3,045,000	3.000%	69,863	3,114,863	
2/15/2048		-		69,863	69,863	3,184,725
8/15/2048		3,135,000	3.000%	47,025	3,182,025	
2/15/2049		-		-	-	3,182,025
<b>TOTAL</b>		<b>\$66,605,000</b>		<b>\$35,892,819</b>	<b>\$102,497,819</b>	<b>\$102,497,819</b>

\*Table may not add due to rounding.

**Official Statement**

\$133,630,000 Consolidated Public Improvement Project and Refunding Bonds, 2019 Series A

\$66,605,000 Metropolitan District Project and Refunding Bonds, 2019 Series B

