

*In the opinion of Bass, Berry & Sims PLC, Bond Counsel, based on existing law and assuming compliance with certain tax covenants of the Metropolitan Government, interest on the Series 2020 Bonds (as defined below) will be excluded from gross income for federal income tax purposes and is not an item of tax preference for purposes of the federal alternative minimum tax. For a more detailed explanation of certain tax consequences under federal law which may result from the ownership of the Series 2020 Bonds, see the discussion under the heading "TAX MATTERS" herein. Under existing law, the Series 2020 Bonds and the income therefrom will be exempt from all state, county and municipal taxation in the State of Tennessee, except Tennessee franchise and excise taxes. (See "TAX MATTERS" herein).*



**THE METROPOLITAN GOVERNMENT OF  
NASHVILLE AND DAVIDSON COUNTY (TENNESSEE)**

**\$169,575,000 WATER AND SEWER REVENUE BONDS, SERIES 2020A**

**\$45,530,000 WATER AND SEWER REVENUE BONDS, SERIES 2020B**

**Dated: Date of Delivery**

**Due: July 1, as shown on inside cover**

The Metropolitan Government of Nashville and Davidson County, Tennessee (the "Metropolitan Government") is issuing its \$169,575,000 Water and Sewer Revenue Bonds, Series 2020A (the "Series 2020A Bonds") and \$45,530,000 Water and Sewer Revenue Bonds, Series 2020B (the "Series 2020B Bonds", and collectively with the Series 2020A Bonds, the "Series 2020 Bonds"). The Series 2020 Bonds are being issued pursuant to the provisions of Tennessee law described herein and pursuant to resolutions of the Metropolitan County Council of the Metropolitan Government as further described herein.

The proceeds of the Series 2020 Bonds will be used to (i) retire a portion of the Metropolitan Government's outstanding Water and Sewer Commercial Paper Bond Anticipation Notes (the "commercial paper"), which provided interim financing for various capital improvements to the Metropolitan Government's water and sewer system (the "System"), (ii) refund a portion of the Metropolitan Government's Water and Sewer Revenue Refunding Bonds, Series 2010A (the "Series 2010A Bonds"), (iii) fund a debt service reserve fund, and (iv) pay costs of issuance of the Series 2020 Bonds.

The Series 2020 Bonds will be limited obligations of the Metropolitan Government payable solely from and secured solely by System revenues and certain funds maintained in connection therewith, subject to the payment of certain expenses of the System as described below and herein. **The Series 2020 Bonds do not constitute a debt or liability of the Metropolitan Government for which there is a right to compel the exercise of its taxing power.**

The Series 2020 Bonds will be fully registered bonds without coupons in denominations of \$5,000 and integral multiples thereof, and when issued will be registered in the name of Cede & Co. as nominee of The Depository Trust Company, New York, New York ("DTC"), to which principal and premium, if any, and interest will be paid. Beneficial owners of the Series 2020 Bonds will not receive physical delivery of Series 2020 Bond certificates except as described herein.

The Series 2020 Bonds will be dated their date of delivery, will mature on July 1 in each of the years and in the principal amounts as specified on the inside cover and will bear interest from their date payable on January 1 and July 1 in each year beginning July 1, 2020, at the rates per annum specified on the inside cover. The Series 2020 Bonds are subject to redemption as described herein.

The Series 2020 Bonds are offered for delivery when, as, and if issued, subject to the legal opinion of Bass, Berry & Sims PLC, Nashville, Tennessee, Bond Counsel to the Metropolitan Government. Certain legal matters will be passed on for the Metropolitan Government by the Metropolitan Director of Law and for the Underwriters by their counsel, Adams and Reese LLP, Nashville, Tennessee. The Series 2020 Bonds will be available for delivery through DTC, on or about April 8, 2020.

**J.P. MORGAN**

**MORGAN STANLEY**

**LOOP CAPITAL MARKETS**

**RAYMOND JAMES**

**SIEBERT WILLIAMS SHANK & CO. LLC**

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY (TENNESSEE)**

**MATURITY SCHEDULE**

**\$169,575,000**

**WATER AND SEWER REVENUE BONDS, SERIES 2020A**

<u>Due July 1</u>	<u>Principal Amount</u>	<u>Interest Rate</u>	<u>Yield</u>	<u>Initial* CUSIP No.<sup>1</sup></u>	<u>Due July 1</u>	<u>Principal Amount</u>	<u>Interest Rate</u>	<u>Yield</u>	<u>Initial* CUSIP No.<sup>1</sup></u>
2021	\$3,550,000	5.000%	1.400%	592098T56	2031	\$5,850,000	5.000%	2.090% C	592098U70
2022	3,730,000	5.000%	1.430%	592098T64	2032	6,150,000	5.000%	2.140% C	592098U88
2023	3,925,000	5.000%	1.470%	592098T72	2033	6,470,000	5.000%	2.190% C	592098U96
2024	4,125,000	5.000%	1.500%	592098T80	2034	6,800,000	4.000%	2.480% C	592098V20
2025	4,335,000	5.000%	1.550%	592098T98	2035	7,150,000	4.000%	2.530% C	592098V38
2026	4,560,000	5.000%	1.630%	592098U21	2036	7,515,000	4.000%	2.580% C	592098V46
2027	4,790,000	5.000%	1.730%	592098U39	2037	7,860,000	4.000%	2.630% C	592098V53
2028	5,035,000	5.000%	1.850%	592098U47	2038	8,220,000	4.000%	2.670% C	592098V61
2029	5,295,000	5.000%	1.940%	592098U54	2039	8,600,000	4.000%	2.710% C	592098V79
2030	5,565,000	5.000%	2.020%	592098U62	2040	8,995,000	4.000%	2.750% C	592098V87

\$51,055,000 4.000% Term Bond Due July 1, 2045, Yield 2.890% C, CUSIP No. 592098V95

**\$45,530,000**

**WATER AND SEWER REVENUE BONDS, SERIES 2020B**

<u>Due July 1</u>	<u>Principal Amount</u>	<u>Interest Rate</u>	<u>Yield</u>	<u>Initial* CUSIP No.<sup>1</sup></u>
2021	\$2,175,000	5.000%	1.400%	592098W29
2022	7,565,000	5.000%	1.430%	592098W37
2023	7,940,000	5.000%	1.470%	592098W45
2024	8,350,000	5.000%	1.500%	592098W52
2025	8,765,000	5.000%	1.550%	592098W60
2026	9,190,000	5.000%	1.630%	592098W78
2027	1,545,000	5.000%	1.730%	592098W86

\*The Metropolitan Government is not responsible for the use of CUSIP numbers, nor is any representation made as to their correctness. They are included solely for the convenience of the readers of this Official Statement.

<sup>1</sup> CUSIP is a registered trademark of the American Bankers Association. CUSIP data herein are provided by Standard and Poor's CUSIP Service Bureau, a Division of the McGraw-Hill Companies, Inc. These data are not intended to create a database and do not serve in any way as a substitute for the CUSIP Services.

C denotes maturities priced to the first optional call date.

No dealer, broker, salesperson or other person has been authorized to give information or to make any representation other than those contained in this Official Statement, in connection with the offering of the Series 2020 Bonds, and, if given or made, such information or representation must not be relied upon as having been authorized by the Metropolitan Government, the Underwriters or their respective consultants and attorneys. This Official Statement does not constitute an offer or solicitation in any jurisdiction which such offer or solicitation is not authorized, or in which any person making such offer or solicitation is not qualified to do so, or to any person to whom it is unlawful to make such offer or solicitation. The Metropolitan Government is the author of this Official Statement and is responsible for its accuracy and completeness. The Underwriters are not the authors of this Official Statement. In accordance with their responsibilities under federal securities laws, the Underwriters are required to review the information in this Official Statement and must have a reasonable basis for their belief in the accuracy and completeness of the Official Statement's key representations. The information set forth in this Official Statement, however, is not guaranteed as to accuracy or completeness by, and is not to be construed as a representation by, the Underwriters.

This Official Statement is not to be construed as a contract with the purchaser of the Series 2020 Bonds. Statements contained in this Official Statement which involve estimates, forecasts, or matters of opinion, whether or not expressly so described herein, are intended solely as such, and are not to be construed as representations of fact. This Official Statement contains "forward-looking" statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended. Such statements may involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance and achievements to be different from future results, performance and achievements expressed or implied by such forward-looking statements. Investors are cautioned that the actual results could differ materially from those set forth in the forward-looking statements.

The information and expressions of opinions contained herein are subject to change without notice, and neither the delivery of this Official Statement nor any sale made hereunder will, under any circumstances, create any implication that there has been no change in the matters contained in this Official Statement or other information or opinions expressed herein since the date hereof.

All summaries herein of documents and agreements are qualified in their entirety by reference to such documents and agreements, and all summaries herein of the Series 2020 Bonds are qualified in their entirety by reference to the form thereof included in the Bond Resolution, and the provisions with respect thereto included in the aforementioned documents and agreements.

**THIS OFFICIAL STATEMENT IS INTENDED TO REFLECT MATERIAL FACTS AND CIRCUMSTANCES AS THEY EXIST ON THE DATE OF THIS OFFICIAL STATEMENT OR ON SUCH OTHER DATE OR AT SUCH OTHER TIME AS IDENTIFIED HEREIN. NO ASSURANCE CAN BE GIVEN THAT SUCH INFORMATION WILL NOT BE MISLEADING AT A LATER DATE. CONSEQUENTLY, RELIANCE ON THIS OFFICIAL STATEMENT AT TIMES SUBSEQUENT TO THE ISSUANCE OF THE SERIES 2020 BONDS SHOULD NOT BE MADE ON THE ASSUMPTION THAT ANY SUCH FACTS OR CIRCUMSTANCES ARE UNCHANGED.**

**THE SERIES 2020 BONDS HAVE NOT BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION ("SEC") BY REASON OF CERTAIN EXEMPTIONS CONTAINED IN THE SECURITIES ACT OF 1933, AS AMENDED. IN MAKING AN INVESTMENT DECISION, INVESTORS MUST RELY ON THEIR OWN EXAMINATION OF THE INFORMATION CONTAINED IN THIS OFFICIAL STATEMENT REGARDING THE METROPOLITAN GOVERNMENT, THE SERIES 2020 BONDS AND THE TERMS OF THE OFFERING, INCLUDING THE MERITS AND RISKS INVOLVED. THESE SECURITIES HAVE NOT BEEN RECOMMENDED BY ANY FEDERAL OR STATE SECURITIES COMMISSION OR REGULATORY AUTHORITY, NOR HAVE SUCH AUTHORITIES CONFIRMED THE ACCURACY OR DETERMINED THE ACCURACY OF THIS DOCUMENT. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.**

**THE FINANCIAL ADVISOR HAS BEEN EMPLOYED BY THE METROPOLITAN GOVERNMENT TO ADVISE IT WITH RESPECT TO CERTAIN MATTERS RELATING TO THE PROPOSED STRUCTURE OF THE SERIES 2020 BONDS. THE FINANCIAL ADVISOR HAS NOT BEEN EMPLOYED AND ASSUMES NO DUTY OR OBLIGATION TO ADVISE ANY OTHER PARTY AS TO ANY ASPECT OF THE TRANSACTION, INCLUDING THE HOLDERS OF THE SERIES 2020 BONDS.**

THE UNDERWRITERS HAVE PROVIDED THE FOLLOWING SENTENCE FOR INCLUSION IN THIS OFFICIAL STATEMENT: THE UNDERWRITERS HAVE REVIEWED THE INFORMATION IN THIS OFFICIAL STATEMENT IN ACCORDANCE WITH, AND AS A PART OF, THEIR RESPECTIVE RESPONSIBILITIES TO INVESTORS UNDER THE FEDERAL SECURITIES LAWS AS APPLIED TO THE FACTS AND CIRCUMSTANCES OF THIS TRANSACTION, BUT THE UNDERWRITERS DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION.

IN CONNECTION WITH THIS OFFERING, THE UNDERWRITERS MAY OVER-ALLOT OR EFFECT TRANSACTIONS WHICH STABILIZE THE MARKET PRICE OF THE SERIES 2020 BONDS AT A LEVEL ABOVE THAT WHICH MIGHT OTHERWISE PREVAIL IN THE OPEN MARKET. SUCH STABILIZING, IF COMMENCED, MAY BE DISCONTINUED AT ANY TIME.

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Official Statement

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**METROPOLITAN GOVERNMENT OFFICIALS, STAFF AND CONSULTANTS**

**Mayor and Metropolitan County Council**

John Cooper – Mayor  
Jim Shulman – Vice Mayor and Council President

Bob Mendes – Council Member At Large  
Sharon Hurt – Council Member At Large  
Burkley Allen – Council Member At Large  
Steve Glover – Council Member At Large  
Zulfat Suara – Council Member At Large  
Jonathan Hall – District Council Member  
Kyonzté Toombs – District Council Member  
Jennifer Gamble – District Council Member  
Robert Swope – District Council Member  
Sean Parker – District Council Member  
Brett Withers – District Council Member  
Emily Benedict – District Council Member  
Nancy VanReece – District Council Member  
Tonya Hancock – District Council Member  
Zach Young – District Council Member  
Larry Hagar – District Council Member  
Erin Evans – District Council Member  
Russ Bradford – District Council Member  
Kevin Rhoten – District Council Member  
Jeff Syracuse – District Council Member

Ginny Welsch – District Council Member  
Colby Sledge – District Council Member  
Tom Cash – District Council Member  
Freddie O’Connell – District Council Member  
Mary Carolyn Roberts – District Council Member  
Brandon Taylor – District Council Member  
Gloria Hausser – District Council Member  
Thom Druffel – District Council Member  
Kathleen Murphy – District Council Member  
Russ Pulley – District Council Member  
Courtney Johnston – District Council Member  
Robert Nash – District Council Member  
Tanaka Vercher – District Council Member  
Delishia Porterfield – District Council Member  
Sandra Sepulveda – District Council Member  
John Rutherford – District Council Member  
Joy Styles – District Council Member  
Antoinette Lee – District Council Member  
Angie Henderson – District Council Member  
Dave Rosenberg – District Council Member

**Select Administrative Staff**

Kevin Crumbo – Director of Finance  
Robert E. Cooper, Jr. – Director of Law  
Sean McGuire – Assistant Director of Finance  
Tom Eddlemon – Treasurer  
Elizabeth Waites – Metropolitan Clerk

**Department of Water and Sewerage Services**

Scott Potter, Director  
Amanda K. Deaton-Moyer  
Assistant Director, Business & Finance

**Consultants and Advisors**

Metropolitan Government Counsel ..... Metropolitan Department of Law  
Nashville, Tennessee  
Bond Counsel ..... Bass, Berry & Sims PLC  
Nashville, Tennessee  
Financial Advisor ..... Hilltop Securities Inc.  
Dallas, Texas

**OFFICIAL STATEMENT**

**RELATING TO**

**THE METROPOLITAN GOVERNMENT OF  
NASHVILLE AND DAVIDSON COUNTY (TENNESSEE)**

**\$169,575,000 WATER AND SEWER REVENUE BONDS, SERIES 2020A**

**\$45,530,000 WATER AND SEWER REVENUE BONDS, SERIES 2020B**

**INTRODUCTION**

The Metropolitan Government of Nashville and Davidson County, Tennessee (the “Metropolitan Government”) is issuing its \$169,575,000 Water and Sewer Revenue Bonds, Series 2020A (the “Series 2020A Bonds”) and \$45,530,000 Water and Sewer Revenue Bonds, Series 2020B (the “Series 2020B Bonds,” and collectively with the Series 2020A Bonds, the “Series 2020 Bonds”). The Series 2020 Bonds are issued pursuant to Chapter 21 of Title 9 and Chapter 34 of Title 7 of the Tennessee Code Annotated, as amended, the Charter of the Metropolitan Government (the “Charter”), and subject to the terms and conditions contained in Substitute Resolution No. RS2010-1442 of the Metropolitan County Council (the “Metropolitan Council”) adopted on November 16, 2010, as amended by Resolution No. RS2011-114 adopted by the Metropolitan Council on December 20, 2011, Resolution No. RS2013-621 of the Metropolitan Council adopted on March 19, 2013, Resolution No. RS2017-902 of the Metropolitan Council adopted on October 3, 2017, and Resolution No. RS2020-215 of the Metropolitan Council adopted on March 17, 2020 (collectively, the “Bond Resolution”).

The proceeds of the Series 2020 Bonds will be used to (i) retire a portion of the Metropolitan Government’s outstanding Water and Sewer Commercial Paper Bond Anticipation Notes (the “commercial paper”), which provided interim financing for various capital improvements to the Metropolitan Government’s water and sewer system (the “System”), (ii) refund a portion of the Metropolitan Government’s Water and Sewer Revenue Refunding Bonds, Series 2010A (the “Series 2010A Bonds”), (iii) fund a debt service reserve fund, and (iv) pay costs of issuance of the Series 2020 Bonds.

See “PLAN OF FINANCE” herein.

The Series 2020 Bonds will be issued as fully registered bonds without coupons and will be dated as of their date of delivery. The principal of and redemption premium, if any, on all Series 2020 Bonds will be payable at the designated corporate trust office of U.S. Bank National Association, the registration and paying agent for the Series 2020 Bonds (the “Registration Agent”), upon the presentation and surrender of such Series 2020 Bonds as the same shall become due and payable.

The Series 2020 Bonds will bear interest at the rates specified on the inside cover page, payable semi-annually on January 1 and July 1 in each year beginning July 1, 2020, will be in denominations of \$5,000 or any integral multiple thereof and will mature on July 1 in each of the years and in the amounts as specified on the inside cover page. Interest on the Series 2020 Bonds will be paid by draft or check mailed to the person in whose name such Series 2020 Bond is registered in the bond registration books kept by the Registration Agent as of the close of business on the day which is the fifteenth day of the calendar month next preceding an interest payment date. As long as the Series 2020 Bonds are held by The Depository Trust Company, New York, New York (“DTC”), or its nominee, interest will be paid to Cede & Co., as nominee of DTC, in next day funds on each interest payment date.

The Series 2020 Bonds will initially be issued in book-entry-only form and registered in the name of Cede & Co., as nominee of DTC. Purchases of the Series 2020 Bonds will be made in book-entry form through DTC Participants. No physical delivery of Series 2020 Bonds will be made to purchasers of the Series 2020 Bonds unless the book-entry-only system of registration is discontinued, or as may otherwise be provided herein. Payments on the Series 2020 Bonds will be made to bondholders by DTC through DTC Participants. See “THE SERIES 2020 BONDS – BOOK-ENTRY-ONLY SYSTEM” herein.

The Series 2020 Bonds will be limited obligations of the Metropolitan Government payable solely from and secured solely by the revenues received by the Metropolitan Government from the operation of the System and certain

funds maintained in connection therewith subject to the payment of certain operating expenses of the System as described below and herein. **The Series 2020 Bonds do not constitute a debt or liability of the Metropolitan Government for which there is a right to compel the exercise of its taxing power.**

All financial and other information presented in this Official Statement has been compiled from records of the Metropolitan Government, except for information expressly attributed to other sources. All quotations from, and summaries and explanations of, provisions of statutes contained herein do not purport to be complete and are qualified in their entirety by reference to the official compilations thereof, and all references to the Series 2020 Bonds and proceedings of the Metropolitan Government relating thereto are qualified in their entirety by reference to the forms of the Series 2020 Bonds and such proceedings. Recent historical information does not indicate future or continuing trends in the Metropolitan Government's financial position or other affairs, unless specifically stated.

Certain provisions of the Bond Resolution are found in Appendix A, and capitalized terms not defined within the body of this Official Statement shall have the meanings ascribed in Appendix A. A link to the audited financial statements for the Metropolitan Government, which include audited financial information for the Department of Water and Sewerage Services of the Metropolitan Government, for the fiscal year ended June 30, 2019, is in Appendix B. Certain financial and operating information related to the System is in Appendix C, certain demographic information related to the Metropolitan Government is in Appendix D, the form of opinion of Bond Counsel is in Appendix E, and the form of Continuing Disclosure Agreement is in Appendix F.

Investors should consider the entire Official Statement in making an investment decision and should not consider information more or less important because of its location. Investors should refer to laws, reports or other documents described in this Official Statement for more complete information.

## **THE SERIES 2020 BONDS**

### **Description of the Bonds**

The Series 2020 Bonds will be issued by the Metropolitan Government pursuant to its Charter, the laws of the State of Tennessee (the "State"), particularly Tennessee Code Annotated Sections 7-34-101 et seq. and 9-21-101 et seq., and the Bond Resolution. Proceeds of the Series 2020 Bonds will be used as set forth above in the "INTRODUCTION" and as more fully described in the "PLAN OF FINANCE" herein.

### **Book-Entry-Only System**

*This section describes how ownership of the Series 2020 Bonds is to be transferred and how the principal of, premium, if any, and interest on the Series 2020 Bonds are to be paid to and credited by DTC while the Series 2020 Bonds are registered in its nominee name. The information in this section concerning DTC and the Book-Entry-Only System has been provided by DTC for use in disclosure documents such as this Official Statement. The Metropolitan Government believes the source of such information to be reliable, but takes no responsibility for the accuracy or completeness thereof.*

*The Metropolitan Government cannot and does not give any assurance that (1) DTC will distribute payments of debt service on the Series 2020 Bonds, or redemption or other notices, to DTC Participants, (2) DTC Participants or others will distribute debt service payments paid to DTC or its nominee (as the registered owner of Series 2020 Bonds), or redemption or other notices, to the Beneficial Owners or that they will do so on a timely basis, or (3) DTC will serve and act in the manner described in this Official Statement. The current rules applicable to DTC are on file with the SEC, and the current procedures of DTC to be followed in dealing with DTC Participants are on file with DTC.*

*DTC will act as securities depository for the Series 2020 Bonds. The Series 2020 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 Series 2020 Bond will be issued for each maturity of each series of the Series 2020 Bonds in the aggregate principal amount of each 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, 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 Standard & Poor's rating of AA+. The DTC Rules applicable to its Participants are on file with the SEC. More information about DTC can be found at [www.dtcc.com](http://www.dtcc.com) and [www.dtc.org](http://www.dtc.org).

Purchases of Series 2020 Bonds under the DTC system must be made by or through Direct Participants, which will receive a credit for the Series 2020 Bonds on DTC's records. The ownership interest of each actual purchaser of each Series 2020 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 Owners entered into the transaction. Transfers of ownership interest in the Series 2020 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 Series 2020 Bonds, except in the event that use of the book-entry system for the Series 2020 Bonds is discontinued.

To facilitate subsequent transfers, all Series 2020 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 Series 2020 Bonds with DTC and their registration in the name of Cede & Co. or such other DTC nominee do not effect any change in beneficial ownership. DTC has no knowledge of the actual Beneficial Owners of the Series 2020 Bonds; DTC's records reflect only the identity of the Direct Participants to whose accounts such Series 2020 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. Beneficial Owners of Series 2020 Bonds may wish to take certain steps to augment the transmission to them of notices of significant events with respect to the Series 2020 Bonds, such as redemptions, tenders, defaults, and proposed amendments to the Series 2020 Bond documents. For example, Beneficial Owners of Series 2020 Bonds may wish to ascertain that the nominee holding the Series 2020 Bonds for their benefit has agreed to obtain and transmit notices to Beneficial Owners. In the alternative, Beneficial Owners may wish to provide their names and addresses to the Registration Agent and request that copies of notices be provided directly to them.

Redemption notices shall be sent to DTC. If less than all of the Series 2020 Bonds within a maturity 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 Series 2020 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 Metropolitan Government 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 the Series 2020 Bonds are credited on the record date (identified in a listing attached to the Omnibus Proxy).

Redemption proceeds and principal of or interest on the Series 2020 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 Metropolitan Government or the Registration Agent, on payable dates in accordance with their respective holdings shown on DTC's records. Payments by 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 Participant and not of DTC, the Registration Agent or the Metropolitan Government, subject to any statutory or regulatory requirements as may be in effect from time to time. Payment of redemption proceeds and principal or interest to Cede & Co., or such other nominee as may be requested by an authorized representative of DTC is the responsibility of the Metropolitan Government, 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.

DTC may discontinue providing its services as securities depository with respect to the Series 2020 Bonds at any time by giving reasonable notice to the Metropolitan Government and the Registration Agent. Under such circumstances, in the event that a successor securities depository is not obtained, Series 2020 Bonds are required to be printed and delivered.

The Metropolitan Government may decide to discontinue use of the system of book-entry transfers through DTC (or a successor securities depository). In that event, Series 2020 Bonds will be printed and delivered.

***Use of Certain Terms in Other Sections of This Official Statement***

In reading this Official Statement it should be understood that while the Series 2020 Bonds are in the Book-Entry-Only System, references in other sections of this Official Statement to registered owners should be read to include the person for which the Participant acquires an interest in the Series 2020 Bonds, but (i) all rights of ownership must be exercised through DTC and the Book-Entry-Only System, and (ii) except as described above, notices that are to be given to registered owners pursuant to the Bond Resolution will be given only to DTC.

Information concerning DTC and the Book-Entry-Only System has been obtained from DTC and is not guaranteed as to accuracy or completeness by, and is not to be construed as a representation by the Metropolitan Government, the Financial Advisor or the Underwriters.

***Effect of Discontinuance of Book-Entry-Only System***

In the event that the Book-Entry-Only System is discontinued by DTC or the use of the Book-Entry-Only System is discontinued by the Metropolitan Government, printed Series 2020 Bonds will be issued to the holders and the Series 2020 Bonds will be subject to transfer, exchange and registration provisions as set forth in the Bond Resolution.

**Redemption Provisions**

***Optional Redemption***

The Series 2020A Bonds maturing on July 1, 2031 and thereafter shall be subject to redemption prior to maturity at the option of the Metropolitan Government on July 1, 2030 and thereafter, as a whole or in part at any time, at a redemption price of par plus interest accrued to the redemption date.

The Series 2020B Bonds are not subject to optional redemption prior to maturity.

***Mandatory Redemption***

The Series 2020A Bonds maturing on July 1, 2045 are subject to scheduled mandatory redemption prior to maturity in part (as selected by DTC or its successor) at a redemption price equal to 100% of the principal amount thereof, plus accrued interest to the redemption date, in the following principal amounts and on the dates set forth below:

Redemption Date (July 1)	Principal Amount
2041	\$9,410,000
2042	9,795,000
2043	10,195,000
2044	10,610,000
2045*	11,045,000

\* Maturity

At its option, to be exercised on or before the forty-fifth (45<sup>th</sup>) day next preceding any such mandatory redemption date, the Metropolitan Government, may (i) deliver to the Registration Agent for cancellation the Series 2020A Bonds to be redeemed, in any aggregate principal amount desired, and/or (ii) receive a credit in respect of its redemption obligation under this mandatory redemption provision for any Series 2020A Bonds of the maturity to be redeemed which prior to said date have been purchased or redeemed (otherwise than through the operation of this mandatory sinking fund redemption provision) and canceled by the Registration Agent and not theretofore applied as a credit against any redemption obligation under this mandatory sinking fund provision. Each Series 2020A Bond so delivered or previously purchased or redeemed shall be credited by the Registration Agent at 100% of the principal amount thereof on the obligation of the Metropolitan Government on such payment date and any excess shall be credited on future redemption obligations in chronological order, and the principal amount of Series 2020A Bonds to be redeemed by operation of this mandatory sinking fund provision shall be accordingly reduced. The Metropolitan Government shall, on or before the forty-fifth (45<sup>th</sup>) day next preceding each payment date, furnish the Registration Agent with its certificate indicating whether or not and to what extent the provisions of clauses (i) and (ii) of this paragraph are to be availed of with respect to such payment and confirm that funds for the balance of the next succeeding prescribed payment will be paid on or before the next succeeding payment date.

### ***Selection of Bonds for Redemption***

With respect to a redemption of less than all of the Series 2020 Bonds within a single maturity of a series, DTC shall select the Series 2020 Bonds from within such selected maturity by lot within such maturity or in such manner as DTC shall determine. In any event, the portion of any Series 2020 Bond to be redeemed in part shall be in the principal amount of \$5,000 or any integral multiple thereof.

### ***Notice of Redemption***

Notice of call for redemption shall be given by the Registration Agent on behalf of the Metropolitan Government not less than twenty (20) nor more than sixty (60) days prior to the date fixed for redemption by sending an appropriate notice to the registered owners of the Series 2020 Bonds to be redeemed by first-class mail, postage prepaid, at the addresses shown on the Bond registration records of the Registration Agent as of the date of the notice; but neither failure to mail such notice nor any defect in any such notice so mailed shall affect the sufficiency of the proceedings for redemption of any of the Series 2020 Bonds for which proper notice was given. If at the time of the giving of the notice of redemption, there shall not be on deposit with the Registration Agent moneys sufficient to redeem all the Series 2020 Bonds called for redemption, the notice of redemption shall state that the redemption of such Series 2020 Bonds is conditional upon and subject to deposit of moneys with the Registration Agent sufficient to redeem all such Series 2020 Bonds not later than the opening of business on the redemption date and that such notice shall be of no effect if such moneys are not on deposit. The Registration Agent shall mail said notices as and when directed by the Metropolitan Government pursuant to written instructions from an Authorized Officer of the Metropolitan Government given at least forty-five (45) days prior to the redemption date (unless a shorter notice period shall be satisfactory to the Registration Agent). The notice shall specify the dollar amount of such Series 2020 Bonds to be redeemed on a pro rata basis, along with the current pool factor or ratio and the Registration Agent's contact person's name and telephone number.

## **SECURITY AND SOURCE OF PAYMENT**

### **Limited Obligations**

The Series 2020 Bonds are limited obligations of the Metropolitan Government payable solely from and secured solely by the Revenues. See Appendix A, Article V. None of the Series 2020 Bonds constitute a debt or liability of the Metropolitan Government for which there is a right to compel the exercise of the taxing power of the Metropolitan Government.

For purposes of the Bond Resolution, "Revenues" means (a) all revenues, income, rents, service fees and receipts properly allocable to the System resulting from ownership and operation of the System, excluding any customer deposits or other deposits subject to refund, unless such deposits have become property of the Metropolitan Government, (b) the proceeds of any insurance covering business interruption loss relating to the System and (c) interest received or to be received on any moneys or securities held in any of the funds or accounts established by the Bond Resolution, with the exception of (i) moneys held in the Construction Fund or any account thereof and (ii) moneys held in the Debt Service Reserve Fund during any period in which the investment earnings thereon are directed

by Supplemental Resolution to the Construction Fund or an account thereof (all capitalized terms having the meanings ascribed in Appendix A). The computation of Revenues with respect to any period of time shall be increased by the amount of transfers during such period from the Rate Stabilization Fund to the Revenue Fund, and decreased by the amount of any transfers during such period from the Revenue Fund to the Rate Stabilization Fund, all as described below in “—Flow of Funds”. “Revenues” shall not include any Tax Credit Payments (as such term is defined in Appendix A), grant proceeds or, except as set forth in (b) above, insurance proceeds.

### **Series 2020 Bonds on a Parity and Equality of Lien with Outstanding Senior Lien Bonds**

The pledge of the Revenues in favor of the Series 2020 Bonds is on a parity and equality of lien with the Metropolitan Government’s Water and Sewer Revenue Refunding Bonds, Series 2010A; Water and Sewer Revenue Bonds Federally Taxable, Series 2010B (Build America Bonds—Direct Payment); Water and Sewer Revenue Bonds Federally Taxable, Series 2010C (Recovery Zone Economic Development Bonds); Water and Sewer Revenue Refunding Bonds Federally Taxable, Series 2010D; Water and Sewer Revenue Bonds, Series 2013; Water and Sewer Revenue Bonds, Series 2017A (Green Bonds); and Water and Sewer Revenue Bonds, Series 2017B (collectively, the “Outstanding Senior Lien Bonds”); and any other series of bonds that may hereafter be issued pursuant to the Bond Resolution (collectively, including the Series 2020 Bonds, the “Senior Lien Bonds”). All bonds that had previously benefitted from a prior and senior pledge of Revenues were finally discharged on January 1, 2020. As such, the Senior Lien Bonds now benefit from a first and senior pledge of Revenues.

### **Flow of Funds**

The Bond Resolution requires that all Revenues (other than investment earnings, which are retained in the fund in which they are earned or, in the case of the Debt Service Reserve Fund, paid to the Debt Service Fund) be deposited to the Revenue Fund. Amounts on deposit in the Revenue Fund are to be used to pay Operation and Maintenance Expenses as they become due and to make the following monthly deposits or payments:

First, deposit to the Debt Service Fund an amount equal to accrued debt service on the Senior Lien Bonds, and any additional bonds issued on a parity and equality of lien therewith under the terms of the Bond Resolution). Monies deposited to the Debt Service Fund may be used only to pay debt service on the Bonds.

Second, deposit to the Debt Service Reserve Fund an amount sufficient to remedy any deficiency therein. Monies deposited or maintained in the Debt Service Reserve Fund may be used only to pay debt service on Bonds secured thereby in the event other funds are unavailable therefor.

Third, pay subordinate indebtedness.

Fourth, make payments in lieu of taxes to the Metropolitan Government.

Fifth, deposit to the Rate Stabilization Fund any amounts determined by the Metropolitan Government. Monies in the Rate Stabilization Fund may be transferred to the Revenue Fund or used for any other lawful purpose. Deposits to the Rate Stabilization Fund are deducted from the calculation of “Revenues” in the year of deposit for purposes of the Rate Covenant and Additional Bonds Tests described below. Transfers from the Rate Stabilization Fund to the Revenue Fund are added to the calculation of “Revenues” in the year of transfer for purposes of the Rate Covenant and Additional Bonds Tests described below.

Last, deposit all remaining monies to the Surplus Fund. Monies in the Surplus Fund are to be applied first in the manner required of the Revenue Fund, to the extent of any deficiencies. Any excess funds in the Surplus Fund may be used for any lawful purpose.

See Appendix A, Article V for more information regarding the application of Revenues.

### **Debt Service Reserve Fund**

The Bond Resolution establishes a Debt Service Reserve Fund but does not require the Metropolitan Government to fund reserves for every series of Bonds issued pursuant to the Bond Resolution. In the event the Metropolitan Government elects to fund a reserve for one or more series of Bonds, it must establish an account within

the Debt Service Reserve Fund and dictate the manner of its funding. Any such account will be for the sole benefit of the Bonds secured thereby.

The Metropolitan Government has elected to establish a common debt service reserve account for the Outstanding Senior Lien Bonds and the Series 2020 Bonds. To that end, the Bond Resolution establishes a Series 2010-2020 Debt Service Reserve Account. The Series 2010-2020 Debt Service Reserve Account will be fully funded upon the sale of the Series 2020 Bonds and must be maintained in an amount equal to the least of (a) 10% of the stated aggregate original principal amount of the Outstanding Senior Lien Bonds and the Series 2020 Bonds; (b) the maximum aggregate Debt Service Requirement on the Outstanding Senior Lien Bonds and the Series 2020 Bonds for any Fiscal Year; or (c) 125% of the average aggregate Debt Service Requirement for each Fiscal Year on the Outstanding Senior Lien Bonds and the Series 2020 Bonds (the "Series 2010-2020 Debt Service Reserve Requirement").

The Metropolitan Government may elect to secure additional Series of Bonds with the Series 2010-2020 Debt Service Reserve Account on the same basis as the Outstanding Senior Lien Bonds and the Series 2020 Bonds. Upon such election and the issuance of any such Series of Bonds, the Series 2010-2020 Debt Service Reserve Requirement will be recalculated and measured on an aggregate basis, taking into account the original par amounts and Debt Service Requirements on the Outstanding Senior Lien Bonds and the Series 2020 Bonds and such additional Series of Bonds. Any increase in the Series 2010-2020 Debt Service Reserve Requirement must be funded either from proceeds of such additional Bonds or from equal monthly deposits of Revenues over a period of not more than twenty-four (24) months from the issuance of the additional Series of Bonds.

Any deficiency in the Series 2010-2020 Debt Service Reserve Account resulting from a withdrawal of funds therefrom must be replenished within twenty-four (24) months by equal monthly deposits of Revenues to the Series 2010-2020 Debt Service Reserve Account.

#### **Rate Covenant**

The Bond Resolution requires the Metropolitan Government to set and maintain rates sufficient to produce Net Revenues (Revenues minus Operation and Maintenance Expenses) in each Fiscal Year at least equal to the greater of (i) 120% of the Debt Service Requirement on the Senior Lien Bonds in such Fiscal Year; or (ii) 100% of the sum of (A) the Debt Service Requirement on the Senior Lien Bonds and Subordinated Indebtedness in such Fiscal Year, (B) the amounts required to be paid during such Fiscal Year into the Debt Service Reserve Fund established pursuant to the Bond Resolution, and (C) the amount of all other charges and liens whatsoever payable out of Revenues during such Fiscal Year, including, but not limited to, payments in lieu of taxes. See Appendix A, Section 711.

#### **Additional Bonds**

The Bond Resolution permits the Metropolitan Government to issue additional series of Bonds on a parity and equality of lien, as to the Revenues, with the Series 2020 Bonds and the Outstanding Senior Lien Bonds. In order to issue such Bonds, among other things, the Metropolitan Government must certify that the Net Revenues for any twelve (12) consecutive months period within the twenty-four (24) consecutive months immediately preceding the date of issuance of the additional Bonds were at least equal to the greater of (1) 120% of the maximum Debt Service Requirement on the Senior Lien Bonds in any future Fiscal Year, and (2) 110% of the maximum Debt Service Requirement on the Senior Lien Bonds and any Second Lien Bonds (described below) in any future Fiscal Year. See Appendix A, Section 202.

The Bond Resolution prohibits the issuance of any debt obligations secured by a pledge of any portion of the Revenues on a basis senior to the Series 2020 Bonds.

#### **Other Indebtedness Subordinate to Series 2020 Bonds**

The Bond Resolution freely permits the Metropolitan Government to issue or incur debt obligations secured by all or a portion of the Revenues on a basis subordinate to the Series 2020 Bonds. Upon issuance of the Series 2020 Bonds, the only indebtedness of The Metropolitan Government secured by the Revenues and subordinate to the Outstanding Senior Lien Bonds and the Series 2020 Bonds will be its Subordinate Lien Water and Sewer Revenue Refunding Bonds, Series 2012 (the "Subordinate Series 2012 Bonds") and the commercial paper described below. The Subordinate Series 2012 Bonds were issued pursuant to Resolution RS 2011-114, adopted by the Metropolitan Council on December 20, 2011, which permits the issuance of additional bonds on parity with the Subordinate Series

2012 Bonds (any such additional bonds, together with the Subordinate Series 2012 Bonds, the “Second Lien Bonds”).

The Metropolitan Government also maintains a commercial paper program, pursuant to which the Metropolitan Government may issue up to \$300,000,000 of its Water and Sewer Commercial Paper Bond Anticipation Notes (“commercial paper”) to finance improvements to the System. The Metropolitan Government’s obligations under its commercial paper are payable from Revenues on a subordinate basis to the Senior Lien Bonds and the Second Lien Bonds. The Metropolitan Government currently has outstanding \$235,000,000 of commercial paper. The proceeds of the Series 2020 Bonds will be used to retire \$184,800,000 of outstanding commercial paper leaving \$50,200,000 of commercial paper outstanding. The Metropolitan Government anticipates that it will continue to issue commercial paper to fund capital projects for the System.

**Par Amount of Bonds Outstanding**

The following table details the total par amount of bonds which will be outstanding for the Senior Lien Bonds and the Second Lien Bonds upon issuance of the Series 2020 Bonds.

<b>Lien of Bonds</b>	<b>Par Amount Outstanding</b>
Senior Lien Bonds (Outstanding and Series 2020 Bonds)*	\$920,470,000
Second Lien Bonds	\$59,145,000

\*Excludes the Series 2010A Bonds being refunded.

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## DEBT SERVICE REQUIREMENTS <sup>(1)</sup>

The following table details the total annual debt service requirements for the Outstanding Senior Lien Bonds (excluding the Series 2010A Bonds being refunded), the Series 2020 Bonds, and the Second Lien Bonds.

Fiscal Year	Outstanding Senior Lien Bonds (2)				Series 2020 Bonds			Second	Net Debt
	Principal	Interest	Subsidy (3)	Total	Principal	Interest	Total	Lien Bonds	Service (3)
6/30/2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6/30/2021	7,555,000	37,511,153	(5,021,574)	40,044,578	-	7,081,494	7,081,494	19,844,125	66,970,198
6/30/2022	10,025,000	37,127,378	(5,021,574)	42,130,803	5,725,000	9,550,175	15,275,175	18,768,000	76,173,978
6/30/2023	11,250,000	36,628,003	(5,021,574)	42,856,428	11,295,000	9,124,675	20,419,675	17,953,250	81,229,353
6/30/2024	11,780,000	36,096,803	(5,021,574)	42,855,228	11,865,000	8,545,675	20,410,675	7,205,750	70,471,653
6/30/2025	12,345,000	35,533,853	(5,021,574)	42,857,278	12,475,000	7,937,175	20,412,175	-	63,269,453
6/30/2026	12,965,000	34,911,278	(5,021,574)	42,854,703	13,100,000	7,297,800	20,397,800	-	63,252,503
6/30/2027	13,625,000	34,254,128	(5,021,574)	42,857,553	13,750,000	6,626,550	20,376,550	-	63,234,103
6/30/2028	22,405,000	33,316,151	(4,936,247)	50,784,904	6,335,000	6,124,425	12,459,425	-	63,244,329
6/30/2029	25,850,000	32,061,447	(4,736,116)	53,175,330	5,035,000	5,840,175	10,875,175	-	64,050,505
6/30/2030	26,995,000	30,657,731	(4,501,770)	53,150,960	5,295,000	5,581,925	10,876,925	-	64,027,885
6/30/2031	28,270,000	29,114,622	(4,257,686)	53,126,936	5,565,000	5,310,425	10,875,425	-	64,002,361
6/30/2032	29,605,000	27,488,762	(3,999,892)	53,093,870	5,850,000	5,025,050	10,875,050	-	63,968,920
6/30/2033	31,015,000	25,779,580	(3,727,657)	53,066,922	6,150,000	4,725,050	10,875,050	-	63,941,972
6/30/2034	32,490,000	23,989,844	(3,443,795)	53,036,048	6,470,000	4,409,550	10,879,550	-	63,915,598
6/30/2035	34,045,000	22,111,927	(3,147,820)	53,009,108	6,800,000	4,111,800	10,911,800	-	63,920,908
6/30/2036	35,670,000	20,145,338	(2,839,189)	52,976,149	7,150,000	3,832,800	10,982,800	-	63,958,949
6/30/2037	37,380,000	18,085,809	(2,517,363)	52,948,445	7,515,000	3,539,500	11,054,500	-	64,002,945
6/30/2038	39,165,000	15,925,580	(2,163,883)	52,926,698	7,860,000	3,232,000	11,092,000	-	64,018,698
6/30/2039	41,005,000	13,654,921	(1,741,090)	52,918,831	8,220,000	2,910,400	11,130,400	-	64,049,231
6/30/2040	42,875,000	11,274,966	(1,265,236)	52,884,730	8,600,000	2,574,000	11,174,000	-	64,058,730
6/30/2041	44,810,000	8,795,273	(771,881)	52,833,392	8,995,000	2,222,100	11,217,100	-	64,050,492
6/30/2042	46,765,000	6,285,776	(260,388)	52,790,388	9,410,000	1,854,000	11,264,000	-	64,054,388
6/30/2043	29,685,000	4,380,044	-	34,065,044	9,795,000	1,469,900	11,264,900	-	45,329,944
6/30/2044	31,035,000	3,028,900	-	34,063,900	10,195,000	1,070,100	11,265,100	-	45,329,000
6/30/2045	14,810,000	1,967,500	-	16,777,500	10,610,000	654,000	11,264,000	-	28,041,500
6/30/2046	15,575,000	1,207,875	-	16,782,875	11,045,000	220,900	11,265,900	-	28,048,775
6/30/2047	16,370,000	409,250	-	16,779,250	-	-	-	-	16,779,250
	<u>\$ 705,365,000</u>	<u>\$ 581,743,887</u>	<u>\$ (79,461,033)</u>	<u>\$ 1,207,647,854</u>	<u>\$ 215,105,000</u>	<u>\$ 120,871,644</u>	<u>\$ 335,976,644</u>	<u>\$ 63,771,125</u>	<u>\$ 1,607,395,624</u>

(1) As of Closing, April 8, 2020.

(2) Includes partial refunding of Series 2010A.

(3) Subsidy reflects a 42.345% RZEDB Series 2010C level and 32.935% BABs Series 2010B level.

## PLAN OF FINANCE

The proceeds of the Series 2020 Bonds will be used to (i) retire a portion of the Metropolitan Government's outstanding commercial paper, which provided interim financing for various capital improvements to the System, (ii) refund a portion of the Metropolitan Government's Series 2010A Bonds maturing July 1, 2021 (\$2,610,000 of \$7,860,000 outstanding) and all of the Metropolitan Government's Series 2010A Bonds maturing July 1, 2022 and thereafter, (iii) fund a debt service reserve fund, and (iv) pay costs of issuance of the Series 2020 Bonds.

The proceeds of the Series 2020 Bonds used to retire commercial paper will be deposited, along with certain funds of the Metropolitan Government, with the issuing and paying agent for the commercial paper immediately following the issuance of the Series 2020 Bonds. The proceeds of the Series 2020 Bonds used to refund the Series 2010A Bonds will be deposited in an escrow account held by U.S. Bank National Association, and said funds will be used to redeem the Series 2010A Bonds on July 1, 2020.

## SOURCES AND USES OF FUNDS

The table below sets forth the estimated sources and uses of funds in connection with the issuance of the Series 2020 Bonds.

<b>SOURCES</b>	<b><u>Series 2020A Bonds</u></b>	<b><u>Series 2020B Bonds</u></b>
Par Amount	\$169,575,000	\$45,530,000
Bond Premium	24,832,767	6,442,887
Metro Contribution	914,228	-
<b>Total Sources</b>	<b><u>\$195,321,995</u></b>	<b><u>\$51,972,887</u></b>
<b>USES</b>		
CP Principal Retirement	\$184,800,000	\$ -
CP Interest Retirement	914,228	-
Escrow Fund	-	51,747,350
Debt Service Reserve Fund	8,479,215	-
Cost of Issuance <sup>(1)</sup>	1,128,552	225,537
<b>Total Uses</b>	<b><u>\$195,321,995</u></b>	<b><u>\$51,972,887</u></b>

<sup>(1)</sup> Includes underwriters' discount, legal counsel fees, financial advisor fees, rating agencies fees, printing and mailing expenses and other costs of issuance of the Series 2020 Bonds.



## **FUTURE CAPITAL NEEDS**

Under a consent decree between the Metropolitan Government, the Tennessee Department of Environment and Conservation and the United States Environmental Protection Agency (the “Consent Decree”), the Metropolitan Government is obligated to make future capital expenditures to address and correct deficiencies within the System in an approximate amount of \$1.0 billion to \$1.5 billion over an eleven-year period, which period shall begin upon the approval of plans previously submitted by the Metropolitan Government. The consent decree required that MWS fully develop a Corrective Action Plan/Engineering Report (CAP/ER) for its sanitary sewer system and a Long Term Control Plan (LTCP) for its combined sewer system to achieve the goals of the Clean Water Act (CWA). Both the CAP/ER and LTCP were submitted on time to EPA and TDEC on September of 2011. On August 10, 2017, the EPA approved the CAP/ER and the timeline (11 years) to complete the work has now officially commenced. All three parties have had discussions of potential changes with respect to the LTCP but little would be considered drastic or material to what was submitted. The LTCP has not yet been officially approved. The deadline for final compliance of the Consent Decree is eleven years after final formal approval of the two plans. The Metropolitan Government expects to fund these expenditures primarily through long-term borrowings, including a portion of the proceeds of Series 2020 Bonds, as well as System revenues. Additional information regarding the Consent Decree and the required capital expenditures can be found in Appendix C hereof.

As part of its capital improvement plan for the System for years 2021 through 2025, the Metropolitan Government plans to spend an additional amount of approximately \$450 million for capital projects for the System (not including projects related to the Consent Decree). These capital projects are also expected to be primarily funded with long-term borrowings as well as System revenues. Additional information regarding the capital improvement plan and the required capital expenditures can be found in Appendix C hereof.

## **INVESTMENT CONSIDERATIONS**

### **General**

Attention should be given to the investment considerations described below, which, among others, could affect the ability of the Metropolitan Government to pay principal of and interest on the Series 2020 Bonds, and which could also affect the marketability of or the market price for the Series 2020 Bonds.

The purchase of the Series 2020 Bonds involves certain investment considerations that are discussed throughout this Official Statement. Certain of these investment considerations are set forth in this section for convenience and are not intended to be a comprehensive compilation of all possible investment considerations nor a substitute for an independent evaluation of the information presented in this Official Statement. Each prospective purchaser of any Series 2020 Bonds should read this Official Statement in its entirety and consult such prospective purchaser’s own investment and/or legal advisor for a more complete explanation of the matters that should be considered when purchasing an investment such as the Series 2020 Bonds.

### **Limited Obligations**

The Series 2020 Bonds are limited obligations of the Metropolitan Government, payable solely from the Revenues of the System. The Series 2020 Bonds do not constitute a debt or liability of the Metropolitan Government for which there is a right to compel the exercise of its taxing power. The Revenues of the System are required to pay the Operation and Maintenance Expenses of the System, the Outstanding Senior Lien Bonds, the Series 2020 Bonds, the Second Lien Bonds and any future borrowings of the System, all as described herein, and are dependent upon the financial performance of the System. Payment of the Series 2020 Bonds are on a parity and equality of lien with the Outstanding Senior Lien Bonds, and any additional bonds issued in the future on a parity and equality of lien with the Senior Lien Bonds.

### **Ratings**

There is no assurance that the ratings assigned to the Series 2020 Bonds at the time of issuance (see “RATINGS”) will not be lowered or withdrawn at any time, the effect of which could adversely affect the market price for and marketability of the Series 2020 Bonds.

## **Secondary Market Prices**

No assurance can be given that a secondary market for any of the Series 2020 Bonds will be available and no assurance can be given that the initial offering prices for the Series 2020 Bonds will continue for any period of time.

The Series 2020 Bonds may not constitute a liquid investment, and there is no assurance that a liquid secondary market will exist for the Series 2020 Bonds in the event an owner thereof determines to solicit purchasers of the Series 2020 Bonds. Even if a liquid secondary market exists, there can be no assurance as to the price for which the Series 2020 Bonds may be sold. Such price may be lower than that paid by the current owner of the Series 2020 Bonds, depending on existing market conditions and other factors.

## **Cybersecurity**

The Metropolitan Government utilizes various computer systems and network technology to perform many of its vital operations, including System operations. Such operations often include the storage and transmission of sensitive information, and as a result, the Metropolitan Government is a target of cyberattacks attempting to both gain access to such information and to disrupt operations. In addition to intentional attacks, information breaches may occur due to unintentional employee error. A successful cyberattack or unintentional breach may require the expenditure of an unknown amount of money or time to resolve, substantially interrupt municipal services and operations and subject the Metropolitan Government to legal action. To mitigate against such risks, the Metropolitan Government has instituted various policies and procedures to protect its information technology infrastructure, including a cybersecurity training requirement for Metropolitan Government employees. The Metropolitan Government also maintains insurance against cybersecurity incidents. Despite the Metropolitan Government's measures to safeguard its information technology infrastructure and the information entrusted to the Metropolitan Government, there are no guarantees that such measures will be successful.

## **Climate Change**

Numerous scientific studies have detailed changing global weather patterns and the potential for increasing extreme weather events across the world. The Metropolitan Government's location in the southern United States and proximity to the Cumberland River and numerous other streams and tributaries increases its vulnerability to flooding, including storm water flooding, and extreme heat. In addition to flooding and extreme heat, the Metropolitan Government faces other threats due to climate change, including both drought and damaging wind that could become more severe and frequent. For example, tornadoes on the night of March 2, 2020 caused extensive damage in certain neighborhoods within the Metropolitan Government, although no System infrastructure or operations were impaired. After the flood of May 2010, the Metropolitan Government implemented measures to ensure resiliency to critical infrastructure and has continued to focus on sustainability in the changing environment. In conjunction with the Metropolitan Government's recent pledge to participate in the Global Covenant of Mayors for Climate and Energy, the Mayor's Sustainability Advisory Council is developing a Climate Action Plan, which is intended to measure and lessen the Metropolitan Government's contributions to climate change.

## **COVID-19**

The worldwide spread of COVID-19, a respiratory disease caused by a novel strain of coronavirus, has reached several areas in Tennessee, including Nashville and Davidson County, and is considered a Public Health Emergency of International Concern by the World Health Organization. The spread of COVID-19 has led to quarantine and other "social distancing" measures in affected regions, including the State and Davidson County, undertaken by government agencies, businesses, schools and other entities. These measures have included recommendations and warnings to limit nonessential travel and promote telecommuting. While effects of COVID-19 on the Metropolitan Government may be temporary, the disease has affected travel, commerce, and financial markets across the world. Additionally, U.S. and global stock markets have recently experienced significant volatility and overall declines that have been attributed to COVID-19 concerns.

The Metropolitan Government is unable to predict (i) the extent or duration of the COVID-19 outbreak or other epidemic or pandemic, (ii) the extent or duration of existing and additional quarantines, travel restrictions and other measures relating to COVID-19 or other epidemic or pandemic, and (iii) whether and to what extent the COVID-19 outbreak or other epidemic or pandemic may disrupt the local or global economy, manufacturing or supply chain

or whether any such disruption may adversely affect the operations of the Metropolitan Government. Given the evolving nature of the spread of the disease and the behavior of governments, businesses, and individuals in response thereto, the Metropolitan Government is unable to accurately predict the magnitude of the impact of COVID-19 on the Metropolitan Government and the financial condition of the System. The Metropolitan Government is proactively taking steps to mitigate the spread of COVID-19 and to preserve staffing for all essential Metropolitan Government operations.

## **LITIGATION**

There are no pending, nor to the knowledge of the Metropolitan Government, threatened legal proceedings restraining, enjoining, or adversely affecting the issuance or delivery of the Series 2020 Bonds, the fixing or collecting of rates and charges for the services of the System, the proceedings and authority under which the Series 2020 Bonds are to be issued or which affect in any way the validity of the Series 2020 Bonds.

The Metropolitan Government, like other similar bodies, is subject to a variety of suits and proceedings arising in the ordinary conduct of its affairs. After reviewing the current status of all pending and threatened litigation with its counsel, the Metropolitan Government believes that, while the outcome of litigation cannot be predicted, the final settlement of all lawsuits that have been filed and of any actions or claims pending or threatened against the Metropolitan Government or its officials in such capacity are adequately covered by insurance or by sovereign immunity.

## **CERTAIN LEGAL MATTERS**

Legal matters incident to the authorization and issuance of the Series 2020 Bonds are subject to the approval of Bass, Berry & Sims PLC, Nashville, Tennessee, Bond Counsel to the Metropolitan Government, whose approving opinion in substantially the form attached hereto as Appendix E will be delivered with the Series 2020 Bonds. Other than the descriptions of legal documents and Bond Counsel's legal opinion set forth herein under the captions "THE SERIES 2020 BONDS" (other than the information relating to DTC and its book-entry system), "SECURITY AND SOURCE OF PAYMENT" (excluding financial and statistical data as to which no opinion is expressed), "TAX MATTERS," and APPENDIX E – FORM OF OPINION OF BOND COUNSEL, which have been reviewed by Bond Counsel, Bond Counsel has not undertaken any responsibility for any of the information contained in this Official Statement. Certain legal matters with respect to the Metropolitan Government will be passed upon by Robert E. Cooper, Jr., Director of Law for the Metropolitan Government. Certain legal matters will be passed upon for the Underwriters by their counsel, Adams and Reese LLP, Nashville, Tennessee.

The various legal opinions to be delivered concurrently with the delivery of the Series 2020 Bonds express the professional judgment of the attorneys rendering the opinion as to the legal issues explicitly addressed therein. In rendering a legal opinion, the attorney does not become an insurer or guarantor of that expression of professional judgment, of the transaction opined upon, or of the future performance of the parties to the transaction, nor does the rendering of an opinion guarantee the outcome of any legal dispute that may arise from the transaction.

## **CONTINUING DISCLOSURE**

In connection with the issuance of the Series 2020 Bonds and to assist the Underwriters in complying with Rule 15c2-12 (the "Rule") promulgated by the SEC under the Securities Exchange Act of 1934, as amended, the Metropolitan Government shall execute a Continuing Disclosure Agreement (the "Disclosure Certificate"). Pursuant to the terms of the Disclosure Certificate, the Metropolitan Government has covenanted for the benefit of the holders of the Series 2020 Bonds that, consistent with the Rule, it will provide: annual financial information for the System, including audited financial statements of the Metropolitan Government's Department of Water and Sewerage Services for each fiscal year ending on and after June 30, 2020, in a timely manner, and notices of certain events with respect to the Series 2020 Bonds. Such information and notices will be sent or caused to be sent by the Metropolitan Government to the Municipal Securities Rulemaking Board (the "MSRB"). The form of the Disclosure Certificate is in Appendix F hereto.

The Metropolitan Government has agreed to provide the foregoing information only as described in the Disclosure Certificate. Investors will be able to access continuing disclosure information filed with the MSRB free of charge at [www.emma.msrb.org](http://www.emma.msrb.org).

Except as set forth below, the Metropolitan Government has not failed to comply in any material respect with any previous undertaking in a written contract or agreement specified in SEC Rule 15c2-12(b)(5) within the last five years. In evaluating its compliance with its continuing disclosure obligations during the previous five years, the Metropolitan Government made the following findings: (1) the Metropolitan Government's annual financial statements were correctly linked to each CUSIP initially-assigned to a maturity of bonds, but were not correctly linked to the CUSIPs that replaced the initially-assigned CUSIP as a result of a partial refunding of that maturity of bonds (i.e., CUSIPs distinguishing between pre-refunded and unrefunded bonds); (2) the Metropolitan Government's annual financial statements for the fiscal year ended June 30, 2011 were not correctly linked to the CUSIPs for the Metropolitan Government's then-outstanding District Energy System Revenue Bonds, Series 2002; (3) the Metropolitan Government's annual financial statements for the fiscal years ended June 30, 2011 through 2014 were not filed within the six-month time frame required by the Metropolitan Government's continuing disclosure obligation related to The Health and Educational Facilities Board of The Metropolitan Government of Nashville and Davidson County, Tennessee Revenue Refunding and Improvement Bonds (Meharry Medical College Project) Series 1996 (the filings were in each case made within the nine-month period required by all of the Metropolitan Government's other continuing disclosure agreements); (4) the Annual Reports of The Sports Authority of The Metropolitan Government of Nashville and Davidson County (Tennessee) (the "Authority") for fiscal years ended June 30, 2014 through 2017, filed on behalf of the Authority by the Metropolitan Government in connection with the Authority's Public Improvement Revenue Bonds (Ballpark Project), Series 2013A and Public Improvement Revenue Bonds (Ballpark Project), Series 2013B (Federally Taxable) (collectively, the "Ballpark Bonds"), did not contain an individual listing of the revenues that provide the first line of repayment for the Ballpark Bonds but did contain both a statement of all revenues received by the Authority and a specific listing of the non-tax revenues that ultimately secure such Ballpark Bonds; and (5) the Metropolitan Government failed to timely file notice of an upgrade to the insured rating on the Metropolitan Government's Water and Sewer Revenue Refunding Bonds, Series 2008A, the information on which was widely available and reported to the market. The Metropolitan Government believes that it has otherwise complied in all respects with its previous continuing disclosure undertakings.

## TAX MATTERS

### Tennessee State Tax Exemption

Under existing law, the Series 2020 Bonds and the income therefrom are exempt from all present state, county and municipal taxes in Tennessee except (a) Tennessee excise taxes on interest on the Series 2020 Bonds during the period the Series 2020 Bonds are held or beneficially owned by any organization or entity, or other than a sole proprietorship or general partnership doing business in the State, and (b) Tennessee franchise taxes by reason of the inclusion of the book value of the Series 2020 Bonds in the Tennessee franchise tax base of any organization or entity, other than a sole proprietorship or general partnership, doing business in the State.

### Federal Tax Exemption

*General.* Bass, Berry & Sims PLC, Nashville, Tennessee, is Bond Counsel for the Series 2020 Bonds. Bond Counsel is of the opinion that, under existing law, relying on certain statements by the Metropolitan Government and assuming compliance by the Metropolitan Government with certain covenants, interest on the Series 2020 Bonds is:

- excluded from a bondholder's federal gross income under the Internal Revenue Code of 1986, as amended (the "Code"); and
- not a preference item for a bondholder under the federal alternative minimum tax.

The Code imposes requirements on the Series 2020 Bonds that the Metropolitan Government must continue to meet after the Series 2020 Bonds are issued. These requirements generally involve the way that Series 2020 Bond proceeds must be invested and ultimately used. If the Metropolitan Government does not meet these requirements, it is possible that a bondholder may have to include interest on the Series 2020 Bonds in its federal gross income on a

retroactive basis to the date of issue. The Metropolitan Government has covenanted to do everything necessary to meet these requirements of the Code.

A bondholder who is a particular kind of taxpayer may also have additional tax consequences from owning the Series 2020 Bonds. This is possible if a bondholder is:

- an S corporation,
- a United States branch of a foreign corporation,
- a financial institution,
- a property and casualty or a life insurance company,
- an individual receiving Social Security or railroad retirement benefits,
- an individual claiming the earned income credit, or
- a borrower of money to purchase or carry the Series 2020 Bonds.

If a bondholder is in any of these categories, it should consult its tax advisor.

Bond Counsel is not responsible for updating its opinion in the future. It is possible that future events or changes in applicable law could change the tax treatment of the interest on the Series 2020 Bonds or affect the market price of the Series 2020 Bonds.

Bond Counsel expresses no opinion on the effect of any action taken or not taken in reliance upon an opinion of other counsel on the federal income tax treatment of interest on the Series 2020 Bonds, or under state, local or foreign tax law.

*Market Discount.* Any owner who purchases a Series 2020 Bond at a price which includes market discount in excess of a prescribed de minimis amount (i.e., at a purchase price that is less than its adjusted issue price in the hands of an original owner) will be required to recharacterize all or a portion of the gain as ordinary income upon receipt of each scheduled or unscheduled principal payment or upon other disposition. In particular, such owner will generally be required either (a) to allocate each such principal payment to accrued market discount not previously included in income and to recognize ordinary income to that extent and to treat any gain upon sale or other disposition of such a Series 2020 Bond as ordinary income to the extent of any remaining accrued market discount (under this caption) or (b) to elect to include such market discount in income currently as it accrues on all market discount instruments acquired by such owner on or after the first day of the taxable year to which such election applies.

The Code authorizes the Treasury Department to issue regulations providing for the method for accruing market discount on debt instruments the principal of which is payable in more than one installment. Until such time as regulations are issued by the Treasury Department, certain rules described in the legislative history of the Tax Reform Act of 1986 will apply. Under those rules, market discount will be included in income either (a) on a constant interest basis or (b) in proportion to the accrual of stated interest.

An owner who acquires a Series 2020 Bond at a market discount also may be required to defer, until the maturity date of such Series 2020 Bond or the earlier disposition in a taxable transaction, the deduction of a portion of the amount of interest that the owner paid or accrued during the taxable year on indebtedness incurred or maintained to purchase or carry a Series 2020 Bond in excess of the aggregate amount of interest (including original issue discount) includable in such owner's gross income for the taxable year with respect to such Series 2020 Bond. The amount of such net interest expense deferred in a taxable year may not exceed the amount of market discount accrued on the Series 2020 Bond for the days during the taxable year on which the owner held the Series 2020 Bond and, in general, would be deductible when such market discount is includable in income. The amount of any remaining deferred deduction is to be taken into account in the taxable year in which the Series 2020 Bond matures or is disposed of in a taxable transaction. In the case of a disposition in which gain or loss is not recognized in whole or in part, any remaining deferred deduction will be allowed to the extent gain is recognized on the disposition. This deferral rule does not apply if the bondowner elects to include such market discount in income currently as described above.

*Bond Premium.* A purchaser who purchases a Series 2020 Bond at a cost greater than its then principal amount (or, in the case of a Series 2020 Bond issued with original issue premium, at a price in excess of its adjusted

issue price) will have amortizable bond premium. If the holder elects to amortize the premium under Section 171 of the Code (which election will apply to all bonds held by the holder on the first day of the taxable year to which the election applies, and to all bonds thereafter acquired by the holder), such a purchaser must amortize the premium using constant yield principles based on the purchaser's yield to maturity. Amortizable bond premium is generally treated as an offset to interest income, and a reduction in basis is required for amortizable bond premium that is applied to reduce interest payments. Purchasers of any Series 2020 Bonds who acquire such Series 2020 Bonds at a premium (or with acquisition premium) should consult with their own tax advisors with respect to the determination and treatment of such premium for federal income tax purposes and with respect to state and local tax consequences of owning such Series 2020 Bonds.

*Sale or Redemption of Series 2020 Bonds.* A bondowner's tax basis for a Series 2020 Bond is the price such owner pays for the Series 2020 Bond plus the amount of any original issue discount and market discount previously included in income, reduced on account of any payments received (other than "qualified stated interest" payments) and any amortized bond premium. Gain or loss recognized on a sale, exchange or redemption of a Series 2020 Bond, measured by the difference between the amount realized and the basis of the Series 2020 Bond as so adjusted, will generally give rise to capital gain or loss if the Series 2020 Bond is held as a capital asset (except as discussed above under "—Market Discount"). The legal defeasance of Series 2020 Bonds may result in a deemed sale or exchange of such Series 2020 Bonds under certain circumstances; owners of such Series 2020 Bonds should consult their tax advisors as to the federal income tax consequences of such an event.

*Backup Withholding.* A bondowner may, under certain circumstances, be subject to "backup withholding" (currently the rate of this withholding obligation is 24%, but the rate may change in the future) with respect to interest or original issue discount on the Series 2020 Bonds. This withholding generally applies if the owner of a Series 2020 Bond (a) fails to furnish the Registration Agent or other payor with its taxpayer identification number; (b) furnishes the Registration Agent or other payor an incorrect taxpayer identification number; (c) fails to report properly interest, dividends or other "reportable payments" as defined in the Code; or (d) under certain circumstances, fails to provide the Registration Agent or other payor with a certified statement, signed under penalty of perjury, that the taxpayer identification number provided is its correct number and that the holder is not subject to backup withholding. Backup withholding will not apply, however, with respect to certain payments made to bondowners, including payments to certain exempt recipients (such as certain exempt organizations) and to certain Nonresidents (as hereinafter defined). Owners of the Series 2020 Bonds should consult their tax advisors as to their qualification for exemption from backup withholding and the procedure for obtaining the exemption.

Backup withholding is not an additional tax. Any amount paid as backup withholding would be credited against the bondholder's U.S. federal income tax liability, provided that the requisite information is timely provided to the Internal Revenue Service. The amount of "reportable payments" for each calendar year and the amount of tax withheld, if any, with respect to payments on the Series 2020 Bonds will be reported to the bondowners and to the Internal Revenue Service.

*Nonresident Borrowers.* Under the Code, interest and original issue discount income with respect to Series 2020 Bonds held by nonresident alien individuals, foreign corporations or other non-United States persons ("Nonresidents") generally will not be subject to the United States withholding tax (or backup withholding) if the Metropolitan Government (or other Person who would otherwise be required to withhold tax from such payments) is provided with an appropriate statement that the beneficial owner of the Series 2020 Bond is a Nonresident. Notwithstanding the foregoing, if any such payments are effectively connected with a United States trade or business conducted by a Nonresident bondowner, they will be subject to regular United States income tax, but will ordinarily be exempt from United States withholding tax.

*ERISA.* The Employees Retirement Income Security Act of 1974, as amended ("ERISA"), and the Code generally prohibit certain transactions between a qualified employee benefit plan under ERISA or tax-qualified retirement plans and individual retirement accounts under the Code (collectively, the "Plans") and Persons who, with respect to a Plan, are fiduciaries or other "parties in interest" within the meaning of ERISA or "disqualified persons" within the meaning of the Code. All fiduciaries of Plans, in consultation with their advisors, should carefully consider the impact of ERISA and the Code on an investment in any Series 2020 Bond.

*Future Legislative Changes.* Proposed, pending or future tax legislation, administrative actions taken by tax authorities, or court decisions, whether at the federal or state level, may adversely affect the tax-exempt status of the interest on the Series 2020 Bonds subsequent to their issuance. Future legislation could directly or indirectly reduce or eliminate the value of certain deductions and exclusions, including the benefit of the exclusion of tax-exempt interest on the Series 2020 Bonds from gross income for federal income tax purposes. Any such proposed legislation, actions or decisions, whether or not enacted, taken or rendered, could also adversely affect the value and liquidity of the Series 2020 Bonds. Prospective purchasers of the Series 2020 Bonds should consult their own tax advisors regarding the forgoing matters.

*Miscellaneous.* Tax legislation, administrative actions taken by tax authorities, and court decisions, whether at the Federal or state level, may adversely affect the tax-exempt status of interest on the Series 2020 Bonds under Federal or state law and could affect the market price or marketability of the Series 2020 Bonds.

Prospective bondholders should consult their own tax advisors regarding the foregoing matters.

## **RATINGS**

Moody's Investors Service, Inc. and S&P Global Ratings have assigned ratings of "Aa2" and "AA", respectively, to the Series 2020 Bonds. The ratings reflect only the respective views of such organizations and the Metropolitan Government makes no representation as to the appropriateness of the ratings. Any explanation of the significance of the ratings may be obtained only from the respective rating agency furnishing the same at the following addresses: Moody's Investors Services, Inc., 99 Church Street, New York, New York 10007; S&P Global Ratings, 55 Water Street, New York, New York 10041. The Metropolitan Government furnished to each rating agency certain information and materials, some of which may not have been included in this Official Statement, relating to the Metropolitan Government as well as outstanding debt of the Metropolitan Government. Generally, rating agencies base their ratings upon such information and materials and upon investigations, studies and assumptions by the ratings agencies. There is no assurance that such ratings will continue for any given period of time or that they will not be revised downward or withdrawn entirely by any or all of such rating companies, if in the judgment of any or all companies, circumstances so warrant. Any such downward revision or withdrawal of such ratings, or any of them, may have an adverse effect on the market price of the Series 2020 Bonds.

## **UNDERWRITING**

The Underwriters of the Series 2020 Bonds have agreed, subject to certain conditions, to purchase all of the Series 2020 Bonds from the Metropolitan Government at an aggregate purchase price to be paid by the Underwriters of \$245,655,328.48 (representing the principal amount of the Series 2020 Bonds plus an original issue premium of \$31,275,654.10, less an Underwriters' discount of \$725,325.62). The Bond Purchase Agreement between the Metropolitan Government and the Underwriters provides, with respect to the Series 2020 Bonds, that all of the Series 2020 Bonds will be purchased by the Underwriters, if any of the Series 2020 Bonds of such issue are purchased.

The Series 2020 Bonds will be offered at the respective initial public offering prices or yields shown on the inside cover page of this Official Statement. The Underwriters may offer and sell the Series 2020 Bonds to certain dealers (including dealers depositing the Series 2020 Bonds into investment trusts) and others at prices lower than the public offering prices stated on the inside cover page hereof. Following the initial public offering, the initial public offering prices may be changed from time to time by the Underwriters in their discretion.

J.P. Morgan Securities LLC ("JPMS"), one of the Underwriters of the Series 2020 Bonds, has entered into negotiated dealer agreements (each, a "Dealer Agreement") with each of Charles Schwab & Co., Inc. ("CS&Co.") and LPL Financial LLC ("LPL") for the retail distribution of certain securities offerings at the original issue prices. Pursuant to each Dealer Agreement, each of CS&Co. and LPL may purchase Series 2020 Bonds from JPMS at the original issue price less a negotiated portion of the selling concession applicable to any Series 2020 Bonds that such firm sells.

Morgan Stanley & Co. LLC, an underwriter of the Series 2020 Bonds, has entered into a retail distribution arrangement 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 Series 2020 Bonds.

### **FINANCIAL ADVISOR**

Hilltop Securities Inc. is employed as Financial Advisor to the Metropolitan Government in connection with the issuance of the Series 2020 Bonds. The Financial Advisor's fees for services rendered with respect to the sale of the Series 2020 Bonds are contingent upon the issuance and delivery of the Series 2020 Bonds. Hilltop Securities Inc., in its capacity as Financial Advisor, has relied on the opinion of Bond Counsel and has not verified and does not assume any responsibility for the information, covenants and representations contained in any of the legal documents with respect to the federal income tax status of the Series 2020 Bonds or the possible impact of any present pending or future actions taken by any legislative or judicial bodies. In the normal course of business, Hilltop Securities Inc. may from time to time sell investment securities to the Metropolitan Government for the investment of bond proceeds or other funds of the Metropolitan Government upon the request of the Metropolitan Government.

The Financial Advisor has provided the following sentence for inclusion in this Official Statement: The Financial Advisor has reviewed the information in this Official Statement in accordance with, and as part of, its responsibilities to the Metropolitan Government and, as applicable, to investors under the federal securities laws as applied to the facts and circumstances of this transaction, but the Financial Advisor does not guarantee the accuracy or completeness of such information.

### **INDEPENDENT AUDITORS**

The general purpose financial statements of the Metropolitan Government, which include audited financial information for the Department of Water and Sewerage Services of the Metropolitan Government as of the fiscal year ended June 30, 2019, an electronic link to which is included in Appendix B to this Official Statement, have been audited by Crosslin & Associates, P.C., independent auditors, as stated in their report.

### **FORWARD-LOOKING STATEMENTS**

The statements contained in this Official Statement, and in any other information provided by the Metropolitan Government, that are not purely historical, are forward-looking statements, including certain statements regarding the Metropolitan Government's expectations, hopes, intentions or strategies regarding the future. Readers should not place undue reliance on forward-looking statements. All forward-looking statements included in this Official Statement are based on information available to the Metropolitan Government on the date hereof and the Metropolitan Government assumes no obligation to update any such forward-looking statements. It is important to note that the Metropolitan Government's actual results could differ materially from those in such forward-looking statements.

The forward-looking statements herein are necessarily based on various assumptions and estimates and are inherently subject to various risks and uncertainties, including risks and uncertainties relating to the possible invalidity of the underlying assumptions and estimates and possible changes or developments in social, economic, business, industry, market, legal and regulatory circumstances and conditions and actions taken or omitted to be taken by third parties, including customers, suppliers, business partners and competitors, and legislative, judicial and other governmental authorities and officials. Assumptions related to the foregoing involve judgments with respect to, among other things, future economic, competitive and market conditions and future business decisions, all of which are difficult or impossible to predict accurately and many of which are beyond the control of the Metropolitan Government. Any of such assumptions could be inaccurate and, therefore, there can be no assurance that the forward-looking statements included in this Official Statement would prove to be accurate.

In considering the matters set forth in this Official Statement, prospective investors should carefully review all information included herein to identify any investment considerations. Potential investors should be thoroughly familiar with this entire Official Statement and the appendices hereto, and should have assessed whatever additional



financial and other information any such investor may deem necessary, prior to making an investment decision with respect to the Series 2020 Bonds.

#### **MISCELLANEOUS INFORMATION**

There is no guarantee that any of the assumptions or estimates contained herein will be realized. All of the summaries of the statutes, documents and resolutions in this Official Statement are made subject to all of the provisions of such statutes, documents and resolutions. These summaries do not purport to be complete statements of such provisions, and reference is made to such documents for further information. Reference is made to original documents in all respects. This Official Statement, and the execution and delivery of this Official Statement, were authorized by the Metropolitan Government.

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The Metropolitan Council has duly authorized the execution and delivery of this Official Statement on behalf of the Metropolitan Government by its Metropolitan Mayor and its Director of Finance.

THE METROPOLITAN GOVERNMENT OF  
NASHVILLE AND DAVIDSON COUNTY

By: /s/ John Cooper  
\_\_\_\_\_  
Metropolitan Mayor

By: /s/ Kevin Crumbo  
\_\_\_\_\_  
Director of Finance

**APPENDIX A**  
**CERTAIN PROVISIONS OF THE BOND RESOLUTION**

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Note that provisions of the Bond Resolution related to the Prior First Lien Bonds have been redacted for purposes of this Appendix A because the Prior Bonds were finally discharged on January 1, 2020.

## ARTICLE I

### DEFINITIONS AND STATUTORY AUTHORITY

**SECTION 101. Definitions.** The following terms shall, for all purposes of the Resolution, have the following meanings:

**Account or Accounts** shall mean, as the case may be, each or all of the accounts established in Section 502(a).

**Accountant's Certificate** shall mean a certificate signed by an independent certified public accountant of recognized national standing or a firm of certified public accountants of recognized national standing, selected by the Metropolitan Government, who may be the accountant or firm of accountants who regularly audit the books of the Metropolitan Government relating to the System.

**Accreted Value** shall mean, as of any date of computation with respect to any Capital Appreciation Bond, an amount equal to the principal amount of such Bond plus the interest accrued on such Bond from the date of original issuance of such Bond to the periodic date specified in the Supplemental Resolution authorizing such Capital Appreciation Bond on which interest on such Bond is to be compounded (hereinafter, a "Periodic Compounding Date") next preceding the date of computation or the date of computation if a Periodic Compounding Date, such interest to accrue at the interest rate per annum of the Capital Appreciation Bonds set forth in the Supplemental Resolution authorizing such Bonds, compounded periodically on each Periodic Compounding Date, plus, if such date of computation shall not be a Periodic Compounding Date, a portion of the difference between the Accreted Value as of the immediately preceding Periodic Compounding Date (or the date of original issuance if the date of computation is prior to the first Periodic Compounding Date succeeding the date of original issuance) and the Accreted Value as of the immediately succeeding Periodic Compounding Date, calculated based upon an assumption that, unless otherwise provided in the Supplemental Resolution authorizing such Capital Appreciation Bonds, Accreted Value accrues in equal daily amounts on the basis of a year consisting of twelve 30-day months.

**Additionally Secured Series** shall mean a Series of Bonds for which the payment of the principal or Redemption Price, if any, of, and interest on, the Bonds of such Series shall be secured, in addition to the pledge created pursuant to Section 501(a) hereof in favor of all of the Bonds, by amounts on deposit in a separate account to be designated therefor in the Debt Service Reserve Fund.

**Alternate Variable Rate Taxable Index** shall mean such index as, at the time, is in general use as a proxy for short-term interest rates on debt obligations of state and local governments the interest on which is not excluded from gross income for federal income tax purposes, as determined by an Authorized Finance Officer.

**Alternate Variable Rate Tax-Exempt Index** shall mean such index as, at the time, is in general use as a proxy for short-term interest rates on debt obligations of state and local governments the interest on which is excluded from gross income for federal income tax purposes, as determined by an Authorized Finance Officer.

**Annual Budget** shall mean the annual budget or budgets of the System, as amended or supplemented, adopted or in effect for a particular Fiscal Year as provided in Section 709.

**Appreciated Value** shall mean, with respect to any Deferred Income Bond, (i) as of any date of computation prior to the Current Interest Commencement Date with respect to such Deferred Income Bond, an amount equal to the principal amount of such Bond plus the interest accrued on such Bond from the date of original issuance of such Bond to the periodic date specified in the Supplemental Resolution authorizing such Deferred Income Bond on which interest on such Bond is to be compounded (hereinafter, a "Periodic Compounding Date") next preceding the date of computation or the date of computation if a Periodic Compounding Date, such interest to accrue at the interest rate

per annum of the Deferred Income Bonds set forth in the Supplemental Resolution authorizing such Bonds, compounded periodically on each Periodic Compounding Date, plus, if such date of computation shall not be a Periodic Compounding Date, a portion of the difference between the Appreciated Value as of the immediately preceding Periodic Compounding Date (or the date of original issuance if the date of computation is prior to the first Periodic Compounding Date succeeding the date of original issuance) and the Appreciated Value as of the immediately succeeding Periodic Compounding Date, calculated based upon an assumption that, unless otherwise provided in the Supplemental Resolution authorizing such Deferred Income Bonds, Appreciated Value accrues in equal daily amounts on the basis of a year consisting of twelve 30-day months and (ii) as of any date of computation on and after the Current Interest Commencement Date, the Appreciated Value on the Current Interest Commencement Date.

**Authorized Newspaper** shall mean a newspaper or financial journal customarily published at least once a day for at least five days (other than legal holidays) in each calendar week and printed in the English language, which is of general circulation in the Borough of Manhattan, City and State of New York (which may include The Bond Buyer and The Wall Street Journal).

**Authorized Finance Officer** shall mean the Director of Finance and any other persons authorized in writing by the Director of Finance to act as an Authorized Finance Officer hereunder.

**Balloon Date** means any date of a Principal Installment or any date on which a Holder may elect to have Balloon Obligations redeemed, prepaid, purchased directly or indirectly by the Metropolitan Government, or otherwise paid, in a Balloon Year.

**Balloon Obligations** means any Series of Bonds 25% or more of the Principal Installments of which is due or may be required to be paid in any 12-month period; provided that, in calculating the principal amount of such Bonds due or required to be redeemed, prepaid, purchased, or otherwise paid in any 12-month period, such principal amount shall be reduced to the extent that all or any portion of such amount is required to be redeemed or amortized prior to such 12-month period.

**Balloon Year** means any 12-month period in which more than 25% of the original principal amount of related Balloon Obligations mature or are subject to mandatory redemption or could, at the option of the holders thereof, be required to be redeemed, prepaid, purchased directly or indirectly by the Metropolitan Government, or otherwise paid.

**Bond or Bonds** shall mean any bonds, notes, loan agreements or other obligations or evidences of indebtedness, as the case may be, authenticated and delivered under and Outstanding pursuant to the Resolution (currently, the Water and Sewer Revenue Refunding Bonds, Series 2010A; Water and Sewer Revenue Bonds Federally Taxable, Series 2010B (Build America Bonds—Direct Payment); Water and Sewer Revenue Bonds Federally Taxable, Series 2010C (Recovery Zone Economic Development Bonds); Water and Sewer Revenue Refunding Bonds Federally Taxable, Series 2010D; Water and Sewer Revenue Bonds, Series 2013; Water and Sewer Revenue Bonds, Series 2017A (Green Bonds); Water and Sewer Revenue Bonds, Series 2017B; Water and Sewer Revenue Bonds, Series 2020A; and Water and Sewer Revenue Bonds, Series 2020B).

**Bond Registrar** shall mean the officer of the Metropolitan Government, such transfer agent duly registered pursuant to the Securities Exchange Act of 1934, as amended (or successor provision of law), or such bank or trust company organized under the laws of the United States of America or of any State of the United States of America or national banking association, located within or without the State of Tennessee, appointed by the Metropolitan Government to perform the duties of Bond Registrar enumerated in Section 703 with respect to one or more Series of Bonds.

**Book Entry Bond** shall mean a Bond authorized to be issued to, and issued to and, except as provided in Section 309(d), restricted to being registered in the name of, a Securities Depository for the participants in such Securities Depository or the beneficial owners of such Bond.

**Code** shall mean the Internal Revenue Code of 1986, as amended, or any successor, and the applicable regulations (including final, temporary and proposed) promulgated by the United States Department of the Treasury

thereunder, including Treasury Regulations issued pursuant to Sections 103 and 141 through 150, inclusive, of said Internal Revenue Code of 1986.

**Capitalized Interest Account** shall mean the Capitalized Interest Account established within the Construction Fund in Section 502(a).

**Capital Appreciation Bonds** shall mean any Bonds issued under the Resolution as to which interest is (a) compounded periodically on dates that are specified in the Supplemental Resolution authorizing such Capital Appreciation Bonds and (b) payable only at the maturity, earlier redemption or other payment thereof pursuant to the Resolution or the Supplemental Resolution authorizing such Capital Appreciation Bonds.

**Certified Interest Rate** shall mean, as of any date of determination:

(a) with respect to Bonds that were or will be, at the date of the original issuance thereof, the subject of a Counsel's Opinion to the effect that the interest thereon is excluded from gross income for federal income tax purposes pursuant to Section 103 of the Code, a rate of interest equal to the average of the Variable Rate Tax-Exempt Index for the five (5) years preceding such date of determination; and

(b) with respect to Bonds that were not and will not be, at the date of the original issuance thereof, the subject of a Counsel's Opinion to the effect that the interest thereon is excluded from gross income for federal income tax purposes pursuant to Section 103 of the Code, a rate of interest equal to the average of the Variable Rate Taxable Index for the five (5) years preceding such date of determination.

**Charter** shall mean the Charter of the Metropolitan Government approved by referendum on June 28, 1962, as amended from time to time.

**Commercial Paper Obligations** shall mean the commercial paper notes as may be issued from time to time by the Metropolitan Government, including the Metropolitan Government's obligations to any provider of liquidity in connection therewith.

**Commitment**, when used with respect to Balloon Obligations, means a binding written commitment from a financial institution, surety, or insurance company to refinance such Balloon Obligations on or prior to any Balloon Date thereof, including without limitation any Credit Facility for such Balloon Obligations.

**Construction Fund** shall mean the Construction Fund established in Section 502(a).

**Consultant** shall mean a firm of engineers, accountants or water and sewer consultants of national reputation for advising municipalities with respect to the setting of rates and charges for the use of water and sewer systems, as selected by an Authorized Finance Officer.

**Consulting Engineer** shall mean the engineer or engineering firm or corporation, if any, retained by the Metropolitan Government to perform the acts and carry out the duties provided for such Consulting Engineer in the Resolution. In the event that the Metropolitan Government shall retain an engineer or engineering firm or corporation as aforesaid, such engineer or engineering firm or corporation shall have a nationwide and favorable reputation for skill and experience in such work.

**Contracts** means all Credit Facility Agreements, including any Reimbursement Obligations, and all Qualified Hedge Agreements.

**Costs** shall mean any and all costs permitted to be financed by applicable Tennessee law through the issuance of a Series of Bonds.

**Counsel's Opinion** shall mean an opinion signed by an attorney or firm of attorneys of recognized standing in the field of law relating to municipal bonds (who may be counsel to the Metropolitan Government) selected by the Metropolitan Government.

**Credit Facility** means any letter of credit, insurance policy, guaranty, surety bond, standby bond purchase agreement, line of credit, revolving credit agreement, or similar obligation, arrangement or instrument (other than a Reserve Fund Credit Facility) issued by a bank, insurance company, or any entity that is used by the Metropolitan Government to perform one or more of the following tasks: (i) enhancing the Metropolitan Government's credit by assuring owners of any of the Bonds that principal of and interest on such Bonds will be paid promptly when due; (ii) providing liquidity for the owners of Bonds through undertaking to cause Bonds to be bought from the owners thereof when submitted pursuant to an arrangement prescribed by a Supplemental Resolution; or (iii) remarketing any Bonds so submitted to the Credit Issuer (whether or not the same Credit Issuer is remarketing the Bonds).

**Credit Facility Agreement** means an agreement between the Metropolitan Government and a Credit Issuer pursuant to which the Credit Issuer issues a Credit Facility.

**Credit Issuer** means any issuer of a Credit Facility then in effect for all or part of the Bonds.

**Current Interest Commencement Date** shall mean, with respect to any particular Deferred Income Bonds, the date specified in the Supplemental Resolution authorizing such Deferred Income Bonds (which date must be prior to the maturity date for such Deferred Income Bonds) after which interest accruing on such Deferred Income Bonds shall be payable periodically on dates specified in such Supplemental Resolution, with the first such payment date being the first such periodic date immediately succeeding such Current Interest Commencement Date.

**Date of Issuance** shall mean, with respect to any Series of Bonds, the date upon which such Bonds are or have been authenticated and delivered by the Bond Registrar therefor.

**Debt Service Fund** shall mean the Debt Service Fund established in Section 502(a).

**Debt Service Requirement** shall mean:

(a) with respect to Subordinated Indebtedness, the total principal and interest coming due, whether at maturity or upon mandatory redemption, in any specified period.

(b) with respect to the Bonds, the total Principal Installments and interest accruing in any specified period, provided that:

(i) If any Bonds Outstanding or proposed to be issued shall bear interest at a Variable Rate, including Hedged Obligations if the interest thereon calculated as set forth below is expected to vary and Bonds secured by a Credit Facility if the interest thereon calculated as set forth below is expected to vary, the interest coming due in any specified future period shall be determined as if the Variable Rate in effect at all times during such future period equaled, at the option of the Metropolitan Government either (1) the average of the actual Variable Rates which were in effect (weighted according to the length of the period during which each such Variable Rate was in effect) for the most recent 12-month period immediately preceding the date of calculation for which such information is available (or shorter period if such information is not available for a 12-month period), or (2) the Certified Interest Rate.

(ii) With respect to any Bonds secured by a Credit Facility, the Debt Service Requirement therefor shall include (1) any commission or commitment fee obligations with respect to such Credit Facility, (2) the outstanding and unpaid amount of any Reimbursement Obligation and interest thereon, (3) any additional interest owed on Bonds which have been purchased by a Credit Issuer pursuant to a Credit Facility Agreement, and (4) any remarketing agent fees; provided if (a) the Credit Facility requires the Credit Issuer to make all interest payments on the Bonds, (b) the Reimbursement Obligation provides for payments by the Metropolitan Government or the Credit Issuer based on levels of, or changes or differences in, interest rates, currency exchange rates, or stock or other indices, and (c) the Credit Issuer, upon the execution of the Credit Facility Agreement, would qualify as a Qualified Hedge Provider if the Credit Facility Agreement were to be construed as a Hedge Agreement and the related Bonds as Hedged Obligations, then interest on such Bonds shall be calculated by adding (x) the amount of interest payable on such Bonds pursuant to their terms and (y) the amount of payments for interest to be made by the Metropolitan Government under the Credit

Facility Agreement, and subtracting (z) the amounts payable by the Credit Issuer to the Metropolitan Government as interest on such Bonds as specified in the Credit Facility Agreement; but only to the extent the Credit Issuer is not in default under the Credit Facility and if such default has occurred and is continuing, interest on such Bonds shall be calculated as if there were no Credit Facility. In determining the amounts described in this paragraph for any future period, the Metropolitan Government (A) may assume that any Credit Facility presently in effect will remain in effect even if such Credit Facility has an expiration date prior to the maturity of the related Bonds and (B) may assume that the current payments relating to the Credit Facility will remain in effect or may estimate such payments in the future provided that the Metropolitan Government obtains a certificate from a Financial Adviser that such estimates are reasonable.

(iii) With respect to any Hedged Obligations, the interest on such Hedged Obligations during any Hedge Period and for so long as the provider of the related Hedge Agreement has not defaulted on its payment obligations thereunder shall be calculated by adding (x) the amount of interest payable by the Metropolitan Government on such Hedged Obligations pursuant to their terms and (y) the amount of Hedge Payments payable by the Metropolitan Government under the related Hedge Agreement and subtracting (z) the amount of Hedge Receipts payable by the provider of the related Hedge Agreement at the rate specified in the related Hedge Agreement; provided, however, that to the extent that the provider of any Hedge Agreement is in default thereunder, the amount of interest payable by the Metropolitan Government on the related Hedged Obligations shall be the interest calculated as if such Hedge Agreement had not been executed. In determining the amount of Hedge Payments or Hedge Receipts that are not fixed throughout the Hedge Period (i.e., which are variable), payable or receivable for any future period, such Hedge Payments or Hedge Receipts for any period of calculation (the "Determination Period") shall be computed by assuming that the variables comprising the calculation (e.g., indices) applicable to the Determination Period are equal to the average of the actual variables which were in effect (weighted according to the length of the period during which each such variable was in effect) for the most recent 12-month period immediately preceding the date of calculation for which such information is available (or shorter period if such information is not available for a 12-month period).

(iv) For the purpose of calculating the Debt Service Requirement on Balloon Obligations (1) which are subject to a Commitment or (2) which do not have a Balloon Year commencing within 12 months from the date of calculation or (3) which are issued in anticipation of the issuance of Bonds that are not Balloon Obligations or (4) which are issued pursuant to a Supplemental Resolution which contemplates that the principal of Bonds tendered for payment at the option of the holder thereof prior to the stated maturity of such Bonds will be paid from the proceeds of the remarketing of such tendered Bonds (or from the issuance of new Bonds authorized by such Supplemental Resolution), at the option of the Metropolitan Government, the actual principal and interest on such Balloon Obligations shall be included in the Debt Service Requirement, subject to the other assumptions contained herein, or such Balloon Obligations shall be assumed to be amortized in substantially equal annual amounts to be paid for principal and interest over an assumed amortization period of 30 years at an assumed interest rate (which shall be the interest rate certified by a Financial Adviser to be the interest rate at which the Metropolitan Government could reasonably expect to borrow the same amount by issuing Bonds with the same priority of lien as such Balloon Obligations and with a 30-year term). For the purpose of calculating the Debt Service Requirement on Balloon Obligations not described in the preceding sentence, the principal payable on such Bonds during the Balloon Year shall be calculated as if paid on the Balloon Date.

(v) The principal and interest portions of the Accreted Value of Capital Appreciation Bonds or the Appreciated Value of Deferred Income Bonds shall be included in the calculation of Debt Service Requirement in the manner prescribed in Section 207(a).

(vi) Interest on Bonds shall be excluded from the determination of Debt Service Requirement to the extent amounts on deposit in the Capitalized Interest Account of the Construction Fund are scheduled to be applied thereto during such period.

(vii) Scheduled interest payments on Tax Credit Bonds during any period shall be reduced to reflect Tax Credit Payments attributable to such scheduled interest payments.

(c) For purposes of calculating the accrual of Principal Installments and interest on the Bonds, (i) Principal Installments of a Series will be deemed to accrue daily in equal amounts from the preceding Principal Installment date for such Series (but in no event shall any accrual be made for any Principal Installment more than one year prior to the due date of such Principal Installment or from the Date of Issuance of Bonds of such Series, whichever date is later); (ii) each fixed payment obligation (other than Principal Installments) will be deemed to accrue daily in equal amounts from the preceding relevant payment obligation date (but in no event more than one year prior to such payment obligation date or the initial incurrence of the payment obligation, whichever is later); and (iii) principal and interest portions of the Accreted Value of Capital Appreciation Bonds or the Appreciated Value of Deferred Income Bonds shall accrue in the manner provided in Section 207(a).

**Debt Service Reserve Fund** shall mean the Debt Service Reserve Fund established in Section 502(a).

**Debt Service Reserve Requirement** shall mean, with respect to each separate account in the Debt Service Reserve Fund, the amount specified in the Supplemental Resolution establishing such account.

**Defaulted Interest** shall have the meaning given to such term in Section 308.

**Defeasance Securities** shall mean, unless otherwise provided with respect to the Bonds of a Series in the Supplemental Resolution authorizing such Bonds, such securities as are described by applicable provisions of Tennessee law as permitted to be acquired for the purpose of providing for the refunding outstanding debt service obligations.

**Deferred Income Bonds** shall mean any Bonds issued under the Resolution as to which interest accruing prior to the Current Interest Commencement Date is (i) compounded periodically on dates specified in the Supplemental Resolution authorizing such Deferred Income Bonds and (ii) payable only at the maturity, earlier redemption or other payment thereof pursuant to the Resolution or the Supplemental Resolution authorizing such Deferred Income Bonds.

**Depository** shall mean any bank, trust company, national banking association, savings and loan association, savings bank or other banking association or state or federal agency selected by the Metropolitan Government as a depository of moneys and securities held under the provisions of the Resolution.

**Director of Finance** means the Director of Finance of the Metropolitan Government appointed pursuant to the provisions of the Charter of the Metropolitan Government or, in the absence of such appointment or in the event the person so appointed is unable or incapable of acting in such capacity, the person appointed by the Metropolitan Mayor to undertake the duties otherwise performed by the Director of Finance.

**Director of Law** means the Director of Law of the Metropolitan Government appointed pursuant to the provisions of the Charter or, in the absence of such appointment or in the event the person so appointed is unable or incapable of acting in such capacity, the person appointed by the Metropolitan Mayor to undertake the duties otherwise performed by the Director of Law, or his or her designee.

**Escrow Agent** shall mean, with respect to the refunding or defeasance of any particular Bond or Bonds at any one time, the entity with which moneys or investments shall be deposited in trust for the Holders of such Bond or Bonds to be refunded or defeased, and who shall agree, through an appropriate agreement with the Metropolitan Government, to perform the duties of Escrow Agent with respect to such Bond or Bonds as provided in the Resolution or the Supplemental Resolution authorizing the Series of which such Bond or Bonds are a part.

**Event of Default** shall have the meaning given to such term in Section 801.

**Fiduciary or Fiduciaries** shall mean the Bond Registrars, the Paying Agents, any Escrow Agent in respect of the refunding or defeasance of Bonds, or any or all of them, as may be appropriate.

**Financial Adviser** shall mean an investment banking or financial advisory firm, commercial bank, or any other person who or which is retained by the Metropolitan Government for the purpose of passing on questions relating

to the availability and terms of specified types of bonds or the financial condition or operation of the System and is actively engaged in and, in the good faith opinion of the Metropolitan Government, has a favorable reputation for skill and experience in providing financial advisory services of the type with respect to which the Financial Adviser has been retained.

**Fiscal Year** shall mean the 12 month period established by the Metropolitan Council or provided by law from time to time as the fiscal year for the System, and which, as of the date of adoption of this Resolution, is the 12 month period commencing on July 1 of any year and ending on June 30 of the following year.

**Fund or Funds** shall mean, as the case may be, each or all of the Funds established in Section 502.

**Hedge Agreement** means, without limitation, (i) any contract known as or referred to or which performs the function of an interest rate swap agreement, currency swap agreement, forward payment conversion agreement, or futures contract; (ii) any contract providing for payments based on levels of, or changes or differences in, interest rates, currency exchange rates, or stock or other indices; (iii) any contract to exchange cash flows or payments or series of payments; (iv) any type of contract called, or designed to perform the function of, interest rate floors, collars, or caps, options, puts, or calls, to hedge or minimize any type of financial risk, including, without limitation, payment, currency, rate, or other financial risk; and (v) any other type of contract or arrangement that the Metropolitan Government determines is to be used, or is intended to be used, to manage or reduce the cost of any Bonds, to convert any element of any Bonds from one form to another, to maximize or increase investment return, to minimize investment return risk, or to protect against any type of financial risk or uncertainty.

**Hedge Payments** means amounts payable by the Metropolitan Government pursuant to any Hedge Agreement, other than Termination Payments.

**Hedge Receipts** means amounts payable by any provider of a Hedge Agreement pursuant to such Hedge Agreement, other than Termination Payments.

**Hedge Period** means the period during which a Hedge Agreement is in effect.

**Hedged Obligations** means any Bonds with respect to which the Metropolitan Government shall have entered into a Qualified Hedge Agreement.

**Holder** shall mean any person who shall be the registered owner of any Bond or Bonds.

**Investment Securities** shall mean and include any securities which are legal investments for monies of the System, as prescribed by applicable provisions of Tennessee law.

**Metropolitan Clerk** shall mean the Metropolitan Clerk of the Metropolitan Government appointed pursuant to the provisions of the Charter or his or her designee.

**Metropolitan Mayor** shall mean the Metropolitan Mayor of the Metropolitan Government elected pursuant to the provisions of the Charter.

**Metropolitan Council** shall mean the Metropolitan County Council of the Metropolitan Government.

**Metropolitan Government** shall mean The Metropolitan Government of Nashville and Davidson County.

**Net Revenues** shall mean, for any period, the Revenues during such period, minus the Operation and Maintenance Expenses during such period.

**One-Month LIBOR Rate** shall mean, as of any date of determination, the offered rate for deposits in U.S. dollars for a one-month period which appears on the Telerate Page 3750 at approximately 11:00 A.M., London time, on such date, or if such date is not a date on which dealings in U.S. dollars are transacted in the London interbank market, then on the next preceding day on which such dealings were transacted in such market.

**Operation and Maintenance Expenses** shall mean the current expenses, paid or accrued, of operation, maintenance and repair of the System, including administration costs, as calculated in accordance with generally accepted accounting principles. Notwithstanding the foregoing, Operation and Maintenance Expenses shall not include payments in lieu of taxes or any reserve for renewals or replacements or any allowance for depreciation or amortization, and there shall be included in Operation and Maintenance Expenses only that portion of the total administrative, general and other expenses of the Metropolitan Government which are properly allocable to the System.

**Outstanding** shall mean, as of any date, Bonds theretofore or thereupon being authenticated and delivered under the Resolution except:

(a) Bonds cancelled (or, in the case of Book Entry Bonds, to the extent provided in Section 309(f), portions thereof deemed to have been cancelled) by the Bond Registrar therefor at or prior to such date;

(b) Bonds (or portions of Bonds) for the payment or redemption of which moneys, equal to the principal amount or Redemption Price thereof, as the case may be, with interest to the date of maturity or redemption date, shall be held in trust under the Resolution and set aside for such payment or redemption (whether at or prior to the maturity or redemption date), provided that if such Bonds (or portions of Bonds) are to be redeemed, notice of such redemption shall have been given as provided in Article IV or in the Supplemental Resolution authorizing the Series of which such Bonds are a part or provision shall have been made for the giving of such notice;

(c) Bonds in lieu of or in substitution for which other Bonds shall have been authenticated and delivered pursuant to Article III or Section 405 or 1106 unless proof satisfactory to the Metropolitan Government is presented that any such Bonds are held by a bona fide purchaser in due course; and

(d) Bonds (or, in the case of Book Entry Bonds, to the extent provided in Section 309(h), portions thereof) deemed to have been paid as provided in Section 1201 or in the Supplemental Resolution authorizing the Series of which such Bonds are a part.

**Paying Agent** shall mean an officer of the Metropolitan Government, a transfer agent duly registered pursuant to the Securities Exchange Act of 1934, as amended, or a bank or trust company organized under the laws of any state of the United States of America or a national banking association appointed to act in such capacity hereunder.

**Principal Installment** shall mean, as of any date of calculation and with respect to any Series, so long as any Bonds thereof are Outstanding, the principal amount of Bonds of such Series due on a certain future date, whether at stated maturity or as a result of mandatory redemption requirements, or which may, at the option of the holders thereof, be required to be redeemed, prepaid, purchased or otherwise paid, as set forth in a Supplemental Resolution.

**Project Account** shall mean the Project Account established within the Construction Fund in Section 502(a).

**Prudent Utility Practice** shall mean, in respect of any particular utility industry, any of the practices, methods and acts which, in the exercise of reasonable judgment, in light of the facts, including but not limited to the practices, methods and acts engaged in or approved by a significant portion of such utility industry prior thereto, known at the time the decision was made, would have been expected to accomplish the desired result at the lowest reasonable cost consistent with reliability, safety and expedition. It is recognized that Prudent Utility Practice is not intended to be limited to the optimum practice or act to the exclusion of all others, but rather is a spectrum of possible practices, methods or acts which could have been expected to accomplish the desired result at the lowest reasonable cost consistent with reliability, safety and expedition.

**Qualified Hedge Agreement** means any Hedge Agreement with a Qualified Hedge Provider.

**Qualified Hedge Provider** means an entity whose senior unsecured long term obligations, financial program rating, counterparty rating, or claims paying ability, or whose payment obligations under the related Hedge Agreement are absolutely and unconditionally guaranteed or insured or collateralized by an entity whose senior unsecured long



term obligations, financial program rating, counterparty rating, or claims paying ability, is sufficient to satisfy applicable Tennessee law.

**Rate Stabilization Fund** shall mean the Rate Stabilization Fund established in Section 502(a).

**Rating** means a rating in one of the categories by a Rating Agency, disregarding pluses, minuses, and numerical gradations.

**Rating Agencies or Rating Agency** means any nationally recognized credit rating agency.

**Redemption Price** shall mean, with respect to any Bond, the principal amount thereof plus the applicable premium, if any, payable upon redemption thereof pursuant to such Bond or a Supplemental Resolution.

**Refunding Bonds** shall mean Bonds authenticated and delivered pursuant to Section 204, and all Bonds thereafter authenticated and delivered in lieu of or in substitution for such Bonds pursuant to Article III or Section 405 or Section 1106.

**Regular Record Date** shall have the meaning given to such term in Section 308.

**Reimbursement Obligation** means the obligation of the Metropolitan Government to directly reimburse any Credit Issuer for amounts paid by such Credit Issuer under a Credit Facility, whether or not such obligation to so reimburse is evidenced by a promissory note or other similar instrument. The term Reimbursement Obligation includes obligations pursuant to a Credit Facility Agreement either to make payments for interest based on levels of, or changes or differences in, interest rates, currency exchange rates, or stock or other indices, in return for the Credit Issuer's fixed obligations under the Credit Facility or to make fixed payments for interest in return for the Credit Issuer's payments based on such variables.

**Reserve Fund Credit Facility** means a municipal bond insurance policy, surety bond, letter of credit, line of credit, guarantee or other agreement which provides for payment of amounts equal to all or any portion of the Debt Service Reserve Requirement.

**Resolution** shall mean the bond resolution, sometimes referred to herein as the "Water and Sewer System Revenue Bond Resolution", as from time to time amended or supplemented by Supplemental Resolutions in accordance with the terms thereof.

**Revenue Fund** shall mean the Revenue Fund established in Section 502(a).

**Revenues** shall mean (a) all revenues, income, rents, service fees and receipts properly allocable to the System resulting from ownership and operation of the System, excluding any customer deposits or other deposits subject to refund, unless such deposits have become property of the Metropolitan Government, (b) the proceeds of any insurance covering business interruption loss relating to the System, and (c) interest received or to be received on any moneys or securities held in any of the funds or accounts established by the Resolution, with the exception of (i) moneys held in the Construction Fund or any account thereof and (ii) moneys held in the Debt Service Reserve Fund during any period in which the investment earnings thereon are directed by Supplemental Resolution to the Construction Fund or an account thereof. The computation of Revenues with respect to any period of time hereunder shall be increased by the amount of transfers during such period from the Rate Stabilization Fund to the Revenue Fund pursuant to Section 509(a), and decreased by the amount of any transfers during such period from the Revenue Fund to the Rate Stabilization Fund pursuant to Section 506(e). "Revenues" shall not include any Tax Credit Payments, grant proceeds or, except as set forth in (b) above, insurance proceeds.

**Securities Depository** shall mean, with respect to a Book Entry Bond, the person, association or corporation specified in the Supplemental Resolution authorizing the Bonds of the Series of which such Book Entry Bond is a part to serve as the securities depository for such Book Entry Bond, or its nominee, and its successor or successors and any other person, firm, association or corporation which may at any time be substituted in its place pursuant to the Resolution or such Supplemental Resolution.

**Series** shall mean that portion of the Bonds authenticated and delivered in a single transaction and identified pursuant to the Supplemental Resolution authorizing such Bonds as a separate Series of Bonds, regardless of variations in maturity, interest rate or other provisions, together with any Bonds thereafter authenticated and delivered in lieu of or in substitution for such Bonds pursuant to Article III or Section 405 or Section 1106.

**SIFMA Municipal Swap Index** shall mean the rate determined on the basis of an index based upon the weekly interest rates of tax-exempt variable rate issues included in a database maintained by Municipal Market Data or any successor indexing agent which meets specific criteria established by The Securities Industry and Financial Markets Association.

**Special Record Date** shall have the meaning given to such term in Section 308.

**State Revolving Fund Loans** shall mean those Revolving Fund Loan Agreements by and among the Tennessee Department of Environment and Conservation, Tennessee Local Development Metropolitan Government and the Metropolitan Government, outstanding on the date hereof.

**Subordinated Indebtedness** shall mean any bonds, notes, loan agreements or other evidences of indebtedness issued from time to time and payable from and, if applicable, secured by the Revenues of the System on a basis subordinate to the pledge of Revenues (as part of the Trust Estate) in favor of the Bonds, including, without limitation, the Water and Sewer Revenue Refunding Bonds, Series 2012 and the Commercial Paper Obligations.

**Supplemental Resolution** shall mean any resolution supplemental to or amendatory of the Resolution adopted by the Metropolitan Government in accordance with Article X hereof.

**Surplus Fund** shall mean the Surplus Fund established in Section 502(a).

**System** shall mean each and every part of the water system and sewer system of the Metropolitan Government that shall be owned and operated by the Metropolitan Government for water supply, transmission, treatment and distribution and for sewage collection, transmission, treatment and disposal or distribution now existing and hereafter acquired by lease, contract, purchase or otherwise or constructed, including any interest or participation of the Metropolitan Government in any facilities in connection with said system, together with all additions, betterments, extensions and improvements to said system or any part thereof hereafter constructed or acquired and together with all lands, easements, licenses and rights of way and all other works, property or structures and contract rights and other tangible and intangible assets now or hereafter owned or used in connection with or related to said System. Notwithstanding the foregoing definition of the term System, such term shall not include any properties or interests in properties of the Metropolitan Government (a) which the Metropolitan Government determines shall not constitute a part of the System for the purpose of the Resolution at the time of the acquisition thereof by the Metropolitan Government or (b) as to which there shall be filed with the records of the Metropolitan Government a certificate of a Consultant stating, in its opinion, that the exclusion of such properties or interests in properties from the System will not materially impair the ability of the Metropolitan Government to comply during the current or any future Fiscal Year with the provisions of Section 711.

**Tax Credit Bonds** shall mean any Bonds with respect to which the Metropolitan Government has received a Counsel's Opinion to the effect that the Metropolitan Government is entitled to receive payments by the United States Department of the Treasury or other agency of the United States government in offset of the debt service on such Bonds.

**Tax Credit Payment Account** shall mean a Tax Credit Payment Account established in the Debt Service Fund pursuant to Section 502(a) and 507(c).

**Tax Credit Payments** shall mean and amounts payable to the Issuer by the United States Department of the Treasury or other agency of the United States government with respect to Tax Credit Bonds.

**Termination Payment** means an amount payable by the Metropolitan Government or a Qualified Hedge Provider upon termination of a Qualified Hedge Agreement.

**Trust Estate** shall mean the Revenues and amounts on deposit in all Funds and Accounts established by the Resolution (other than the Debt Service Reserve Fund and the Tax Credit Payment Account within the Debt Service Fund).

**Variable Rate** shall mean a rate of interest applicable to the Bonds, other than a fixed rate of interest which applies to a particular maturity of the Bonds so long as that maturity of the Bonds remains Outstanding.

**Variable Rate Taxable Index** shall mean the One-Month LIBOR Rate or, if the One-Month LIBOR Rate no longer shall be available, the Alternate Variable Rate Taxable Index.

**Variable Rate Tax-Exempt Index** shall mean the SIMFA Municipal Swap Index or, if the SIMFA Municipal Swap Index no longer shall be available, the Alternate Variable Rate Tax-Exempt Index.

Except where the context otherwise requires, words importing the singular number shall include the plural number and vice versa, and words importing persons shall include firms, associations, corporations, districts, agencies and bodies.

**SECTION 102. Metropolitan Government for the Resolution.** The Resolution is adopted pursuant to the provisions of Sections 9-21-101 et seq. and 7-34-101 et seq., and all other applicable provisions of Tennessee law.

**SECTION 103. Resolution to Constitute Contract.** In consideration of the acceptance of any and all of the Bonds by those who shall hold the same from time to time, the Resolution shall be deemed to be and shall constitute a contract between the Metropolitan Government and the Holders from time to time of the Bonds and any Credit Issuer or Qualified Hedge Provider; and the pledge made in the Resolution and the covenants and agreements therein set forth to be performed on behalf of the Metropolitan Government shall be, except as expressly set forth in the Resolution or in a Supplemental Resolution and subject to any limitations set forth therein, for the equal benefit, protection and security of the Holders of any and all of the Bonds and any Credit Issuer or Qualified Hedge Provider, all of which Bonds, regardless of the time or times of their authentication and delivery or maturity, shall be of equal rank without preference, priority or distinction of any of the Bonds over any other thereof except as expressly provided in or permitted by the Resolution.

## **ARTICLE II ISSUANCE OF BONDS; SUBORDINATE INDEBTEDNESS; CREDIT FACILITIES AND HEDGE AGREEMENTS**

### **SECTION 201. Authorization of Bonds.**

(a) The Metropolitan Government is hereby authorized to issue from time to time, as hereinafter provided, Bonds of the Metropolitan Government. The aggregate principal amount of the Bonds which may be executed, authenticated and delivered under the Resolution is not limited except as may hereafter be provided in the Resolution or in any Supplemental Resolution or as may be limited by law.

(b) The Bonds may, if and when authorized by the Metropolitan Government pursuant to one or more Supplemental Resolutions, be issued in one or more Series. The designation of each Series shall bear such designation as the Metropolitan Government may determine. Each Bond shall bear upon its face the designation so determined by the Metropolitan Government for the Series to which it belongs.

### **SECTION 202. General Provisions for Issuance of Bonds of Each Series.**

(a) When authorized pursuant to a Supplemental Resolution, the officers of the Metropolitan Government specified in Section 303 may execute all (but not less than all) the Bonds of each Series for issuance under the Resolution and deliver such Bonds to the Bond Registrar therefor for completion, authentication and delivery. Such Bond Registrar shall authenticate and deliver such Bonds upon the order of the Metropolitan

Government, but only upon satisfaction by the Metropolitan Government of the conditions specified in Article X of the Resolution and in the Supplemental Resolution authorizing the Series of which such Bonds are a part and upon satisfaction by the Metropolitan Government of the following conditions:

(i) receipt of a Counsel's Opinion to the effect that (A) the Metropolitan Government has the right and power under applicable Tennessee law to adopt the Resolution, and the Resolution has been duly and lawfully adopted by the Metropolitan Government, is in full force and effect and is valid and binding upon the Metropolitan Government in accordance with its terms, and no other authorization for the Resolution is required; (B) the Resolution creates the valid pledge which it purports to create of the Trust Estate and, if such Series of Bonds shall be an Additionally Secured Series, the separate account in the Debt Service Reserve Fund established for the benefit of such Bonds, subject to the provisions of the Resolution permitting the application thereof for the purposes and on the terms and conditions set forth in the Resolution; and (C) the Bonds of such Series are valid and binding obligations of the Metropolitan Government as provided in the Resolution and are entitled to the benefits of the Resolution and of applicable Tennessee law, and such Bonds have been duly and validly authorized and issued in accordance with applicable Tennessee law and in accordance with the Resolution. Such Opinion may take exception as to the effect of, or for restrictions or limitations imposed by or resulting from, bankruptcy, insolvency, moratorium, reorganization or other laws affecting creditors' rights and may state that no opinion is being rendered as to the availability of any particular remedy. No opinion need be expressed as to the priority of the pledge created by the Resolution over the rights of other persons in the Trust Estate and, if applicable, such separate account in the Debt Service Reserve Fund;

(ii) adoption of a Supplemental Resolution authorizing such Bonds, which shall specify such terms and conditions relative to the Bonds of such Series, and such other matters relative thereto, as the Metropolitan Government may determine;

(iii) if such Series shall be an Additionally Secured Series, evidence of the funding of the account within the Debt Service Reserve Fund designated therefor in the manner prescribed by the Supplemental Resolution;

(iv) execution by an Authorized Finance Officer of a certificate stating that upon the issuance of such Series the Metropolitan Government will not be in default in the performance of any of the covenants, conditions, agreements or provisions contained in the Resolution;

(v) except in the case of the Bonds issued under the first Supplemental Resolution, execution by an Authorized Finance Officer of a certificate (A) setting forth the amounts of Net Revenues for any twelve (12) consecutive month period within the twenty-four (24) consecutive months immediately preceding the date of issuance of the Bonds of the Series with respect to which such certificate is being given; and (B) stating that the Net Revenues for such 12 month period were at least equal to the greater of (1) 120% of the maximum Debt Service Requirement on the Bonds in any future Fiscal Year (calculated with respect to the Bonds of all Series then Outstanding and the Bonds of the Series with respect to which such certificate is given), and (2) 110% of the maximum Debt Service Requirement on the Bonds and any Subordinated Indebtedness issued under the provisions of Resolution RS 2011-114, adopted by the Metropolitan Council on December 20, 2011 (the "2011 Subordinate Lien Resolution") in any future Fiscal Year (calculated with respect to the Bonds of all Series then Outstanding, such Subordinated Indebtedness then outstanding and the Bonds of the Series with respect to which such certificate is given); provided, however, that the Net Revenues for such twelve (12) month period may be adjusted for the purposes of such certificate (X) to reflect for such period revisions in the rates, fees, rentals and other charges of the Metropolitan Government for the product and services of the System made after the commencement of such period and preceding the date of issuance of the Bonds of the Series with respect to which such certificate is given; (Y) to reflect any increase in Net Revenues due to any new facilities of the System having been placed into use and operation subsequent to the commencement of such period and prior to the Date of Issuance of such Bonds, as certified by a Consultant; and (Z) to include an amount equal to the average annual contribution to Net Revenues for the first three full Fiscal Years commencing after the date of acquisition thereof, estimated to be made by facilities anticipated to be acquired and expected to be placed into use and operation within two years of the Date of Issuance of such Bonds, as certified by a Consultant;

(vi) in the case of a Series of Tax Credit Bonds, a Counsel's Opinion addressed to the Metropolitan Government regarding the status of such Series of Bonds as Tax Credit Bonds; and

(vii) delivery of such further documents, moneys and securities as are required by the provisions of this Article II or Article X or any Supplemental Resolution adopted pursuant to Article X.

(b) All the Bonds of each Series of like maturity shall be identical in all respects, except as to interest rates, redemption provisions, denominations, numbers and letters. After the issuance of the Bonds of any Series, no Bonds of such Series shall be issued except in lieu of or in substitution for other Bonds of such Series pursuant to Article III or Section 405 or Section 1106.

### **SECTION 203. Bonds Other Than Refunding Bonds.**

(a) One or more Series of Bonds may be issued at any time for the purpose of financing capital improvements to the System and any and all other Costs related thereto or to the issuance of the Bonds. Bonds of each such Series shall be authenticated and delivered only upon compliance with the terms and conditions set forth in Section 202.

(b) The proceeds of each Series of Bonds authorized under this Section 203 shall be applied simultaneously with the delivery of such Bonds as provided in the Supplemental Resolution authorizing such Series.

### **SECTION 204. Refunding Bonds.**

(a) One or more Series of Refunding Bonds may be issued at any time to refund all or any Outstanding Bonds or Subordinated Indebtedness. Refunding Bonds shall be issued in a principal amount sufficient, together with other moneys available therefor, to accomplish such refunding and to make the deposits in the Funds and Accounts under the Resolution required by the provisions of the Supplemental Resolution authorizing such Bonds or to make any deposits or payments required by a resolution authorizing Subordinate Indebtedness, as applicable.

(b) In addition to the conditions set forth in Section 202, the Bonds of each Series of Refunding Bonds issued pursuant to subsection (a) of this Section 204 may be authenticated and delivered only upon the filing with the records of the Metropolitan Government of a certificate of an Authorized Finance Officer certifying that all conditions relating to the payment or prepayment of such Bonds or Subordinated Indebtedness as set forth in the documents relating thereto have been satisfied.

(c) The proceeds, including accrued interest, of the Refunding Bonds of each Series shall be applied simultaneously with the delivery of such Bonds for the purposes of making deposits in such Funds and Accounts under the Resolution as shall be provided by the Supplemental Resolution authorizing such Series of Refunding Bonds and shall be applied to the refunding purposes thereof or to the payment or prepayment purposes thereof in the manner provided in said Supplemental Resolution.

(d) In lieu of compliance with Section 202(a)(v), Refunded Bonds may be issued to refund Outstanding Bonds (i) if the refunding will constitute a refunding of all Outstanding Bonds, including the retirement of related Contracts, or (ii) upon the execution by an Authorized Finance Officer of a certificate stating that the refunding will result in a reduction in the future Debt Service Requirement on the Bonds in all future Fiscal Years.

(e) In complying with Section 202(a)(v), there shall be deleted from the calculation of maximum Debt Service Requirement the Debt Service Requirement on any Bonds and (if applicable under clause (B)(2)) Subordinated Indebtedness issued pursuant to the 2011 Subordinate Lien Resolution being refunded by the Bonds with respect to which the certificate described in Section 202(a)(v) is being given.

### **SECTION 205. Credit Facilities and Hedge Agreements.**

(a) The Metropolitan Government may obtain or cause to be obtained one or more Credit Facilities providing for payment of all or a portion of the principal of, premium, if any, or interest due or to become due on such

Bonds, providing for the purchase of such Bonds by the Credit Issuer, or providing funds for the purchase of such Bonds by the Metropolitan Government. In connection therewith, the Metropolitan Government may enter into Credit Facility Agreements with such Credit Issuers providing for, among other things, (i) the payment of fees and expenses to such Credit Issuers for the issuance of such Credit Facilities; (ii) the terms and conditions of such Credit Facilities and the Bonds affected thereby; and (iii) the security, if any, to be provided for the issuance of such Credit Facilities.

(b) The Metropolitan Government may secure any Credit Facility by an agreement providing for the purchase of the Bonds secured thereby with such adjustments to the rate of interest, method of determining interest, maturity, or redemption provisions for such Bonds as are specified by the Metropolitan Government in the applicable Supplemental Resolution. The Metropolitan Government may in a Credit Facility Agreement agree to directly reimburse such Credit Issuer for amounts paid under the terms of such Credit Facility, together with interest thereon; provided, however, that no Reimbursement Obligation shall be created for purposes of the Resolution until amounts are paid under such Credit Facility. Any such Credit Facility shall be for the benefit of and secure such Bonds or portion thereof as specified in the applicable Supplemental Resolution. The Metropolitan Government's obligations under a Credit Facility may be payable from and/or secured by a pledge of, and lien on, the Trust Estate as described Section 501, if and as set forth in a Supplemental Resolution.

(c) In connection with the issuance of any Bonds or at any time thereafter so long as such Bonds remain Outstanding, the Metropolitan Government may enter into Hedge Agreements with Qualified Hedge Providers, and no other providers, with respect to any Bonds. The Metropolitan Government shall authorize the execution, delivery, and performance of each Qualified Hedge Agreement in a Supplemental Resolution, in which it shall designate the Bonds to which such Qualified Hedge Agreement relates. The Metropolitan Government's obligation to pay Hedge Payments on a Qualified Hedge Agreement may be payable from and/or secured by a pledge of, and lien on, the Trust Estate as described in Section 501 (other than with respect to Termination Payments), if and as set forth in a Supplemental Resolution.

**SECTION 206. No Other Obligations.** No obligations payable from the Trust Estate or any portion thereof, other than Subordinated Indebtedness, shall be issued or incurred by the Metropolitan Government, except as set forth in this Article II.

**SECTION 207. Special Provisions Relating to Capital Appreciation Bonds and Deferred Income Bonds.**

(a) The principal and interest portions of the Accreted Value of Capital Appreciation Bonds or the Appreciated Value of Deferred Income Bonds becoming due at maturity or by virtue of mandatory redemption requirements shall be included in the calculations of accrued and unpaid and accruing interest or Principal Installments made under the definitions of Debt Service Requirement only from and after the date (the "Calculation Date") which is one year prior to the date on which such Accreted Value or Appreciated Value, as the case may be, becomes so due, and the principal and interest portions of such Accreted Value or Appreciated Value shall be deemed to accrue in equal daily installments from the Calculation Date to such due date.

(b) For the purposes of (i) receiving payment of the Redemption Price if a Capital Appreciation Bond is redeemed prior to maturity, or (ii) receiving payment of a Capital Appreciation Bond if the principal of all Bonds is declared immediately due and payable following an Event of Default, as provided in Section 801 of the Resolution, or (iii) computing the principal amount of Bonds held by the Holder of a Capital Appreciation Bond in giving to the Metropolitan Government any notice, consent, request, or demand pursuant to the Resolution for any purpose whatsoever, the principal amount of a Capital Appreciation Bond shall be deemed to be its then-current Accreted Value.

(c) For the purposes of (i) receiving payment of the Redemption Price if a Deferred Income Bond is redeemed prior to maturity, or (ii) receiving payment of a Deferred Income Bond if the principal of all Bonds is declared immediately due and payable following an Event of Default, as provided in Section 801 of the Resolution or (iii) computing the principal amount of Bonds held by the Holder of a Deferred Income Bond in giving to the Metropolitan Government any notice, consent, request, or demand pursuant to the Resolution for any purpose whatsoever, the principal amount of a Deferred Income Bond shall be deemed to be its then current Appreciated Value.

**ARTICLE III  
GENERAL TERMS AND PROVISIONS OF BONDS**

**SECTION 301. Medium of Payment; Form and Date; Letters and Numbers.**

(a) The Bonds of each Series shall be payable, with respect to interest, principal and Redemption Price, in any coin or currency of the United States of America which at the time of payment is legal tender for the payment of public and private debts.

(b) Unless otherwise provided in a Supplemental Resolution, the Bonds of each Series shall be issued in the form of fully registered Bonds without coupons. The Bonds of each Series shall be in substantially the form set forth in the Supplemental Resolution authorizing the Series of which such Bonds are a part.

(c) Each Bond shall be lettered and numbered as provided in the Supplemental Resolution or Supplemental Resolutions authorizing the Series of which such Bond is a part and so as to be distinguished from every other Bond.

(d) The Bonds of each Series shall be dated the date of their authentication, except as otherwise may be provided in the Supplemental Resolution authorizing the Series of which such Bonds are a part, and shall bear interest as provided in such Supplemental Resolution.

**SECTION 302. Legends.** The Bonds of each Series may contain or have endorsed thereon such provisions, specifications and descriptive words not inconsistent with the provisions of the Resolution as may be necessary or desirable to comply with custom, the rules of any securities exchange or commission or brokerage board, or otherwise, as may be determined by the Metropolitan Government prior to the authentication and delivery thereof.

**SECTION 303. Execution and Authentication.**

(a) The Bonds executed and delivered on or after the effective date of the Resolution shall be executed in the name of the Metropolitan Government by the manual or facsimile signature of the Metropolitan Mayor and its corporate seal (or a facsimile thereof) shall be impressed, imprinted, engraved or otherwise reproduced thereon and attested by the manual or facsimile signature of its Metropolitan Clerk, and approved as to form and legality by the Director of Law by his or her manual or facsimile signature, or in such other manner as may be required or permitted by the Charter and applicable law. In case any one or more of the officers who shall have signed or sealed any of the Bonds shall cease to be such officer before the Bonds so signed and sealed shall have been authenticated and delivered by the Bond Registrar therefor, such Bonds may, nevertheless, be authenticated and delivered as herein provided, and may be issued as if the persons who signed or sealed such Bonds had not ceased to hold such offices. Any Bond of a Series may be signed and sealed on behalf of the Metropolitan Government by such persons as at the time of the execution of such Bonds shall be duly authorized or hold the proper office in the Metropolitan Government, although at the date borne by the Bonds of such Series such persons may not have been so authorized or have held such office.

(b) The Bonds of each Series shall bear thereon a certificate of authentication, in the form set forth in the Supplemental Resolution authorizing the Series of which such Bonds are a part, executed manually by the Bond Registrar therefor. Only such Bonds as shall bear thereon such certificate of authentication shall be entitled to any right or benefit under the Resolution, and no such Bond shall be valid or obligatory for any purpose until such certificate of authentication shall have been duly executed by the Bond Registrar therefor. Such certificate of the Bond Registrar upon any Bond executed on behalf of the Metropolitan Government shall be conclusive evidence that the Bond so authenticated has been duly authenticated and delivered under the Resolution and that the Holder thereof is entitled to the benefits of the Resolution.

**SECTION 304. Interchangeability of Bonds.** Except as otherwise provided in a Supplemental Resolution, the Bonds, upon surrender thereof at the office of the Bond Registrar therefor with a written instrument of transfer satisfactory to such Bond Registrar, duly executed by the registered owner or its duly authorized attorney, may, at the option of the registered owner thereof, and upon payment by such registered owner of any charges which such Bond

Registrar may make as provided in Section 306, be exchanged for an equal aggregate principal amount of Bonds of the same Series, maturity, interest rate and redemption provisions of any other authorized denominations.

**SECTION 305. Negotiability, Transfer and Registry.**

(a) Except as otherwise provided in a Supplemental Resolution, the Bonds shall be transferable only upon the books of the Metropolitan Government, which shall be kept for such purposes at the respective offices of the Bond Registrar(s) therefor, by the registered owner thereof or by its attorney duly authorized in writing, upon surrender thereof together with a written instrument of transfer satisfactory to such Bond Registrar duly executed by the registered owner or its duly authorized attorney. Upon the transfer of any Bond, there shall be issued in the name of the transferee a new Bond or Bonds of the same aggregate principal amount and Series, maturity, interest rate and redemption provisions as the surrendered Bond.

(b) The Metropolitan Government and each Fiduciary may deem and treat the person in whose name any Bond shall be registered upon the books of the Metropolitan Government as the absolute owner of such Bond, whether such Bond shall be overdue or not, for the purpose of receiving payment of, or on account of, the principal or Redemption Price, if any, of and interest on such Bond and for all other purposes, and all such payments so made to any such registered owner or upon its order shall be valid and effectual to satisfy and discharge the liability upon such Bond to the extent of the sum or sums so paid, and neither the Metropolitan Government nor any Fiduciary shall be affected by any notice to the contrary.

**SECTION 306. Regulations with Respect to Exchanges and Transfers.** In all cases in which the privilege of exchanging or transferring Bonds is exercised, the appropriate officers of the Metropolitan Government shall execute and the Bond Registrar therefor shall authenticate and deliver Bonds in accordance with the provisions of the Resolution. All Bonds surrendered in any such exchanges or transfers shall forthwith be delivered to the Bond Registrar therefor and cancelled or retained by such Bond Registrar. For every such exchange or transfer of Bonds, the Metropolitan Government or the Bond Registrar therefor may make a charge sufficient to reimburse it for any tax, fee or other governmental charge required to be paid with respect to such exchange or transfer. Unless otherwise provided in a Supplemental Resolution, neither the Metropolitan Government nor the Bond Registrar therefor shall be required (a) to transfer or exchange Bonds of any Series for the period next preceding any interest payment date for the Bonds of such Series beginning with the Regular Record Date for such interest payment date and ending on such interest payment date, or for the period next preceding any date for the proposed payment of Defaulted Interest with respect to such Bonds beginning with the Special Record Date for the date of such proposed payment and ending on the date of such proposed payment, (b) to transfer or exchange Bonds of any Series for a period beginning 15 days before the mailing of any notice of redemption and ending on the day of such mailing, or (c) to transfer or exchange any Bonds called for redemption.

**SECTION 307. Bonds Mutilated, Lost, Stolen or Destroyed.** If any Bond becomes mutilated or is lost, stolen or destroyed, an Authorized Finance Officer may cause to be executed and the Bond Registrar therefor shall authenticate and deliver a new Bond of like Series, date of issue, maturity date, principal amount, interest rate per annum and redemption provisions as the Bond so mutilated, lost, stolen or destroyed, provided that (a) in the case of such mutilated Bond, such Bond is first surrendered to the Metropolitan Government, (b) in the case of any such lost, stolen or destroyed Bond, there is first furnished evidence of such loss, theft or destruction satisfactory to such Authorized Finance Officer together with indemnity satisfactory to such Authorized Finance Officer, (c) all other reasonable requirements of such Authorized Finance Officer are complied with, and (d) expenses in connection with such transaction are paid by the Holder. Any Bond surrendered for exchange shall be cancelled. Any such new Bonds issued pursuant to this Section in substitution for Bonds alleged to be lost, stolen or destroyed shall constitute original additional contractual obligations on the part of the Metropolitan Government, whether or not the Bonds so alleged to be lost, stolen or destroyed be at any time enforceable by anyone, and shall be equally secured by, and entitled to equal and proportionate benefits with all other Bonds issued under the Resolution in, the Trust Estate and, if such new Bond shall be part of an Additionally Secured Series, in the amounts on deposit in the separate subaccount in the Debt Service Reserve Account in the Debt Service Fund established for the benefit of such Series. If any such Bond lost, stolen or destroyed shall have matured or be about to mature, instead of issuing a new Bond pursuant to this Section, an Authorized Finance Officer may cause the same to be paid, upon being indemnified as aforesaid, without surrender thereof.



**SECTION 308. Payment of Interest on Bonds; Interest Rights Preserved.** Interest on any Bond which is payable, and is punctually paid or duly provided for, on any interest payment date shall be paid to the person in whose name that Bond is registered at the close of business on the date (hereinafter, the “Regular Record Date”) which is the 15th day of the calendar month next preceding such interest payment date (or such other date as may be provided in the Supplemental Resolution authorizing the Series of which such Bond is a part).

Except as may otherwise be provided by Supplemental Resolution, any interest on any Bond which is payable, but is not punctually paid or duly provided for, on any interest payment date (hereinafter, “Defaulted Interest”) shall forthwith cease to be payable to the registered owner on the relevant Regular Record Date by virtue of having been such owner; and such Defaulted Interest shall be paid by the Metropolitan Government to the persons in whose names the Bonds are registered at the close of business on a date (hereinafter, the “Special Record Date”) for the payment of such Defaulted Interest, which shall be fixed in the following manner: the Metropolitan Government shall notify the Bond Registrar therefor in writing of the amount of Defaulted Interest proposed to be paid on each Bond and the date of the proposed payment, and at the same time the Metropolitan Government shall deposit with the Paying Agents an amount of money equal to the aggregate amount proposed to be paid in respect of such Defaulted Interest or shall make arrangements satisfactory to the Paying Agents for such deposit prior to the date of the proposed payment, such money when deposited to be held in trust for the benefit of the persons entitled to such Defaulted Interest as in this Section provided. Thereupon such Bond Registrar shall fix a Special Record Date for the payment of such Defaulted Interest which shall be not more than 15 nor less than 10 days prior to the date of the proposed payment and not less than 10 days after the receipt by such Bond Registrar of the notice of the proposed payment. Such Bond Registrar shall promptly notify the Metropolitan Government of such Special Record Date and, in the name and at the expense of the Metropolitan Government, shall cause notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor to be mailed, first class postage prepaid, to each Holder of a Bond at its address as it appears upon the registry books, not less than 10 days prior to such Special Record Date. Such Bond Registrar may, in its discretion, in the name and at the expense of the Metropolitan Government, cause a similar notice to be published at least once in an Authorized Newspaper, but such publication shall not be a condition precedent to the establishment of such Special Record Date.

Subject to the foregoing provisions of this Section, each Bond delivered under the Resolution upon transfer of or in exchange for or in lieu of any other Bond shall carry the rights to interest accrued and unpaid, and to accrue, which were carried by such other Bond.

**SECTION 309. Book Entry Bonds.**

(a) Anything in the Resolution to the contrary notwithstanding, if and to the extent provided in the Supplemental Resolution authorizing the Bonds of the Series of which such Additional Obligation is a part, any Additional Obligation may be authorized and issued as a Book Entry Bond.

(b) For all purposes of the Resolution, the Holder of a Book Entry Bond shall be the Securities Depository therefor and neither the Metropolitan Government nor any Fiduciary shall have any responsibility or obligation to the beneficial owner of such Bond or to any direct or indirect participant in such Securities Depository. Without limiting the generality of the foregoing, neither the Metropolitan Government nor any Fiduciary shall have any responsibility or obligation to any such participant or to the beneficial owner of a Book Entry Bond with respect to (i) the accuracy of the records of the Securities Depository or any participant with respect to any beneficial ownership interest in such Bond, (ii) the delivery to any participant of the Securities Depository, the beneficial owner of such Bond or any other person, other than the Securities Depository, of any notice with respect to such Bond, including any notice of the redemption thereof, or (iii) the payment to any participant of the Securities Depository, the beneficial owner of such Bond or any other person, other than the Securities Depository, of any amount with respect to the principal or Redemption Price of, or interest on, such Bond. The Metropolitan Government and the Fiduciaries may treat the Securities Depository therefor as, and deem such Securities Depository to be, the absolute owner of a Book Entry Bond for all purposes whatsoever, including (w) payment of the principal or Redemption Price of, and interest on, such Bond, (x) giving notices of redemption and of other matters with respect to such Bond, (y) registering transfers with respect to such Bond and (z) giving to the Metropolitan Government any notice, consent, request or demand pursuant to the Resolution for any purpose whatsoever. The Paying Agents shall pay the principal or

Redemption Price of, and interest on, a Book Entry Bond only to or upon the order of the Securities Depository therefor, and all such payments shall be valid and effective to satisfy fully and discharge the Metropolitan Government's obligations with respect to such principal or Redemption Price, and interest, to the extent of the sum or sums so paid. Except as otherwise provided in Section 309(d) or in any Supplemental Resolution authorizing a Book Entry Bond, no person other than the Securities Depository shall receive a Bond or other instrument evidencing the Metropolitan Government's obligation to make payments of the principal or Redemption Price thereof, and interest thereon.

(c) The Metropolitan Government, in its sole discretion and without the consent of any other person, may, by notice to the Bond Registrar therefor and a Securities Depository, terminate the services of such Securities Depository with respect to the Book Entry Bonds for which such Securities Depository serves as securities depository if the Metropolitan Government determines that (i) the Securities Depository is unable to discharge its responsibilities with respect to such Bond or (ii) a continuation of the requirement that all of the Bonds issued as Book Entry Bonds be registered in the registration books of the Metropolitan Government in the name of the Securities Depository, is not in the best interests of the beneficial owners of such Bonds or of the Metropolitan Government. Additional or other terms and provisions relating to the termination or resignation of a Securities Depository may be provided in the Supplemental Resolution authorizing a Book Entry Bond.

(d) Upon the termination of the services of a Securities Depository with respect to a Book Entry Bond pursuant to Section 309(c)(ii), such Bond shall no longer be restricted to being registered in the registration books kept by the Bond Registrar therefor in the name of a Securities Depository. Upon the termination of the services of a Securities Depository with respect to a Book Entry Bond pursuant to Section 309(c)(i), the Metropolitan Government may within 90 days thereafter appoint a substitute securities depository which, in the opinion of the Metropolitan Government, is willing and able to undertake the functions of Securities Depository under the Resolution upon reasonable and customary terms. If no such successor can be found within such period, such Book Entry Bond shall no longer be restricted to being registered in the registration books kept by such Bond Registrar in the name of a Securities Depository. In the event that a Book Entry Bond shall no longer be restricted to being registered in the registration books kept by such Bond Registrar in the name of a Securities Depository, (i) the Metropolitan Government shall execute and such Bond Registrar shall authenticate and deliver, upon presentation and surrender of the Book Entry Bond, Bond certificates as requested by the Securities Depository so terminated of like Series, principal amount, maturity, interest rate and redemption provisions, in authorized denominations, to the identifiable beneficial owners in replacement of such beneficial owners' beneficial ownership interests in such Book Entry Bond and (ii) the Metropolitan Government shall notify such Bond Registrar and the Paying Agents that such Bond is no longer restricted to being registered in the registration books kept by such Bond Registrar in the name of a Securities Depository.

(e) Anything in the Resolution to the contrary notwithstanding, payment of the Redemption Price of a Book Entry Bond, or portion thereof, called for redemption prior to maturity may be paid to the Securities Depository by check or draft mailed to the Securities Depository or by wire transfer. Anything in the Resolution to the contrary notwithstanding, such Redemption Price may be paid without presentation and surrender to the Paying Agent of the Book Entry Bond, or portion thereof, called for redemption; provided, however, that payment of (i) the principal payable at maturity of a Book Entry Bond and (ii) the Redemption Price of a Book Entry Bond as to which the entire principal amount thereof has been called for redemption shall be payable only upon presentation and surrender of such Book Entry Bond to the Paying Agent; and provided, further, that no such Redemption Price shall be so payable without presentation and surrender unless the Securities Depository therefor shall have procedures in effect that provide for the reduction, on its records, of the aggregate amount of securities (and related positions therein) held by it upon such payment without presentation and surrender. Anything in the Resolution to the contrary notwithstanding, upon any such payment to the Securities Depository without presentation and surrender, for all purposes of (x) the Book Entry Bond as to which such payment has been made and (y) the Resolution, the unpaid principal amount of such Book Entry Bond Outstanding shall be reduced automatically by the principal amount so paid. In such event, the Paying Agent shall notify forthwith the Bond Registrar therefor as to the particular Book Entry Bond as to which such payment has been made, and the principal amount of such Bond so paid, and such Bond Registrar shall note such payment on the registration books of the Metropolitan Government maintained by it, but failure to make any such notation shall not affect the automatic reduction of the principal amount of such Book Entry Bond Outstanding as provided in this subsection.

(f) For all purposes of the Resolution authorizing or permitting the purchase of Bonds, or portions thereof, by, or for the account of, the Metropolitan Government for cancellation, and anything in the Resolution to the contrary notwithstanding, a portion of a Book Entry Bond may be deemed to have been purchased and cancelled without surrender thereof upon delivery to the Bond Registrar therefor of a certificate executed by the Metropolitan Government and a participant of the Securities Depository therefor to the effect that a beneficial ownership interest in such Bond, in the principal amount stated therein, has been purchased by, or for the account of, the Metropolitan Government through the participant of the Securities Depository executing such certificate; provided, however, that any purchase for cancellation of the entire principal amount of a Book Entry Bond shall be effective for purposes of the Resolution only upon surrender of such Book Entry Bond to such Bond Registrar; and provided, further, that no portion of a Book Entry Bond may be deemed to have been so purchased and cancelled without surrender thereof unless the condition set forth in the second proviso to the second sentence of Section 309(e) shall have been satisfied. Anything in the Resolution to the contrary notwithstanding, upon delivery of any such certificate to such Bond Registrar, for all purposes of (i) the Book Entry Bond to which such certificate relates and (ii) the Resolution, the unpaid principal amount of such Book Entry Bond Outstanding shall be reduced automatically by the principal amount so purchased. In such event, such Bond Registrar shall note such reduction on the registration books of the Metropolitan Government maintained by it, but failure to make any such notation shall not affect the automatic reduction of the principal amount of such Book Entry Bond Outstanding as provided in this subsection.

(g) Anything in the Resolution to the contrary notwithstanding, a Securities Depository may make a notation on a Book Entry Bond (i) redeemed in part or (ii) purchased by, or for the account of, the Metropolitan Government in part for cancellation, to reflect, for informational purposes only, the date of such redemption or purchase and the principal amount thereof redeemed or deemed cancelled, but failure to make any such notation shall not affect the automatic reduction of the principal amount of such Book Entry Bond Outstanding as provided in Section 309(e) or (f), as the case may be.

(h) Anything in the Resolution to the contrary notwithstanding, in the case of a Book Entry Bond, the Metropolitan Government shall be authorized to defease, redeem or purchase (by or for the account of the Metropolitan Government), or issue Refunding Bonds to refund, less than all of the entire Outstanding principal amount thereof (in portions thereof of \$5,000 or integral multiples thereof, or such other denominations as shall be specified in the Supplemental Resolution authorizing such Book Entry Bond), and in the event of such partial defeasance, redemption, purchase or refunding, the provisions of the Resolution relating to the defeasance, redemption, purchase or refunding of a Bond or Bonds shall be deemed to refer to the defeasance, redemption, purchase or refunding of a portion of a Bond.

**SECTION 310. Cancellation and Destruction of Bonds.** Except as provided in Section 309, and except as may be otherwise provided in a Supplemental Resolution providing for the issuance thereof, all Bonds paid or redeemed, either at or before maturity, shall be delivered to the Bond Registrar(s) therefor when such payment or redemption is made, and such Bonds, together with all Bonds purchased by the Metropolitan Government and delivered to such Bond Registrar(s) for cancellation, shall thereupon promptly be cancelled (other than Book Entry Bonds, to the extent provided in Section 309(f), that have been deemed to have been cancelled). Bonds so cancelled may at any time be destroyed by such Bond Registrar(s), who shall execute a certificate of destruction in duplicate by the signature of one of its authorized officers describing the Bonds so destroyed, and one executed certificate shall be filed with the Metropolitan Government and the other executed certificate shall be retained by such Bond Registrar(s).

#### ARTICLE IV REDEMPTION OF BONDS

**SECTION 401. Privilege of Redemption and Redemption Price.** Bonds subject to redemption prior to maturity pursuant to their terms or the terms of the Resolution shall be redeemable, upon notice given as provided in this Article IV, at such times, at such Redemption Prices and upon such terms, in addition to the terms contained in this Article IV, as may be specified in such Bonds or in the Supplemental Resolution authorizing the Series of which such Bonds are a part.

**SECTION 402. Redemption of Bonds.** Unless other requirements are specified in the applicable Supplemental Resolution, in the case of any redemption of Bonds other than a mandatory redemption, the Metropolitan Government shall give written notice to the Bond Registrar(s) therefor and the Paying Agents of the redemption date,

of the Series, and of the principal amounts of the Bonds of each maturity of such Series and of the Bonds of each interest rate within a maturity to be redeemed (which Series, maturities, interest rates within a maturity and principal amounts thereof to be redeemed shall be determined by the Metropolitan Government in its sole discretion, subject to any limitations with respect thereto contained in the Resolution or any Supplemental Resolution authorizing the Series of which such Bonds are a part). Such notice shall be filed with such Bond Registrars and the Paying Agents for the Bonds to be redeemed at least 40 days prior to the redemption date (or such shorter period (a) as shall be specified in the Supplemental Resolution authorizing the Series of the Bonds to be redeemed or (b) as shall be acceptable to such Bond Registrars and Paying Agents). In the event notice of redemption shall have been given as in Section 404 provided, and unless such notice shall have been revoked or shall cease to be in effect in accordance with the terms thereof, there shall be paid on or prior to the redemption date to the appropriate Paying Agents an amount which, in addition to other moneys, if any, available therefor held by such Paying Agents, will be sufficient to redeem on the redemption date at the Redemption Price thereof, plus interest accrued and unpaid to the redemption date, all of the Bonds to be redeemed.

**SECTION 403. Selection of Bonds to be Redeemed.** If less than all of the Bonds of like maturity or interest rate within a maturity of any Series shall be called for prior redemption, the particular Bonds or portions of Bonds to be redeemed shall be selected in such manner as the Metropolitan Government in its discretion may deem fair and appropriate; provided, however, that for any Bond of a denomination of more than the minimum denomination for such Series, the portion of such Bond to be redeemed shall, unless otherwise specified in the Supplemental Resolution relating to such Series, be in a principal amount equal to such minimum denomination or an integral multiple thereof, and that, in selecting portions of such Bonds for redemption, each such Bond shall be treated as representing that number of Bonds of such minimum denomination which is obtained by dividing the principal amount of such Bond to be redeemed in part by the amount of such minimum denomination. Notwithstanding the foregoing, the Securities Depository for any Book Entry Bonds shall select Bonds for redemption within particular maturities according to its stated procedures.

**SECTION 404. Notice of Redemption.** When any Bonds shall become subject to redemption, the Metropolitan Government shall give notice, or provide for the giving of notice, of the redemption of such Bonds, which notice shall specify the Series, maturities and interest rates within maturities of the Bonds to be redeemed, the redemption date and the place or places where amounts due upon such redemption will be payable and, if less than all of the Bonds of any like Series, maturity and interest rate are to be redeemed the letters and numbers or other distinguishing marks of such Bonds so to be redeemed, and, in the case of Bonds to be redeemed in part only, such notice shall also specify the respective portions of the principal amount thereof to be redeemed. Such notice shall further state that on such date, if there shall be sufficient moneys available therefor, then there shall become due and payable upon each Bond to be redeemed the Redemption Price thereof, or the Redemption Price of the specified portions of the principal thereof in the case of Bonds to be redeemed in part only, together with interest accrued to the redemption date, and that from and after such date interest thereon shall cease to accrue and be payable. Such notice shall be mailed by first class mail, postage prepaid, by or on behalf of the Metropolitan Government, not less than 20 days nor more than 60 days prior to the redemption date, to the Holders of any Bonds or portions of Bonds which are to be redeemed, at their last addresses, if any, appearing upon the registry books. Failure to give notice of redemption by mail, or any defect in such notice, to the Holder of any Bond shall not affect the validity of the proceedings for the redemption of any other Bonds. Any such notice may, by Supplemental Resolution, be made conditional upon the occurrence of certain events, including without limitation the receipt of funds sufficient to make the redemption or the issuance of Bonds by the Metropolitan Government. Notwithstanding the foregoing, a Supplemental Resolution authorizing the Bonds of a Series may specify a different method for the giving of a notice of redemption, or a different time by which such notice shall be given.

**SECTION 405. Payment of Redeemed Bonds.** Unless otherwise set forth in a Supplemental Resolution, notice having been given in the manner provided in Section 404 or in the manner provided in the Supplemental Resolution authorizing the Bonds of a Series, on the redemption date so designated, (a) unless such notice shall have been revoked or shall cease to be in effect in accordance with the terms thereof and (b) if there shall be sufficient moneys available therefor, then the Bonds or portions thereof so called for redemption shall become due and payable on such redemption date at the Redemption Price, plus interest accrued and unpaid to the redemption date, and, if presentation and surrender shall be required hereby, upon presentation and surrender thereof at the office specified in such notice, such Bonds, or portions thereof, shall be paid at the Redemption Price, plus interest accrued and unpaid to the redemption date. If there shall be drawn for redemption less than all of a Bond, if presentation and surrender

thereof are required hereby, the Metropolitan Government shall execute and the Bond Registrar shall authenticate and the Paying Agent shall deliver, upon the surrender of such Bond, without charge to the owner thereof, for the unredeemed balance of the principal amount of the Bond so surrendered, Bonds of like Series, maturity, interest rate and redemption provisions in any of the authorized denominations. If, on the redemption date, moneys for the redemption of all the Bonds or portions thereof of any like Series, maturity and interest rate to be redeemed, together with interest to the redemption date, shall be held by the Paying Agents so as to be available therefor on said date and if notice of redemption shall have been given as aforesaid, then, from and after the redemption date interest on the Bonds or portions thereof of such Series, maturity and interest rate so called for redemption shall cease to accrue and become payable. If said moneys shall not be so available on the redemption date, such Bonds or portions thereof shall continue to bear interest until paid at the same rate as they would have borne had they not been called for redemption.

## ARTICLE V ESTABLISHMENT OF FUNDS AND APPLICATION THEREOF

### SECTION 501. The Pledge Effected by the Resolution.

(a) The Bonds are special obligations of the Metropolitan Government payable solely from and secured solely by the Trust Estate. The taxing power of the Metropolitan Government is not available for the payment of the Bonds. The Trust Estate is hereby pledged for the payment of the principal and Redemption Price of, and interest on, the Bonds in accordance with their terms and the provisions of the Resolution, subject only to the provisions of the Resolution requiring or permitting the application thereof for the purposes and on the terms and conditions set forth in the Resolution. The Trust Estate shall immediately be subject to the lien of this pledge without physical delivery thereof or further act, and the lien of this pledge shall be valid and binding as against all parties having claims of any kind in tort, contract or otherwise against the Metropolitan Government, without regard to whether such parties have notice thereof.

(b) There are hereby pledged, as additional security for the payment of the principal or Redemption Price, if any, of, and interest on, the Bonds of each Additionally Secured Series secured thereby, subject only to the provisions of the Resolution permitting the application thereof for the purposes and on the terms and conditions set forth in the Resolution, amounts on deposit in the separate account established in the Debt Service Reserve Fund with respect to such Additionally Secured Series. Such amounts on deposit in such separate account established in the Debt Service Reserve Fund shall immediately be subject to the lien of this pledge without physical delivery thereof or further act, and the lien of this pledge shall be valid and binding as against all parties having claims of any kind in tort, contract or otherwise against the Metropolitan Government, without regard to whether such parties have notice thereof.

(c) There are hereby pledged, as additional security for the payment of the principal or Redemption Price, if any, of, and interest on, any Series of Tax Credit Bonds, any Tax Credit Payments attributable to such Series of Tax Credit Bonds, and all amounts on deposit in the applicable Tax Credit Payment Account in the Debt Service Fund. Such amounts on deposit in any separate Tax Credit Payment Account shall immediately be subject to the lien of this pledge without physical delivery thereof or further act, and the lien of this pledge shall be valid and binding as against all parties having claims of any kind in tort, contract or otherwise against the Metropolitan Government, without regard to whether such parties have notice thereof.

(d) To the extent permitted by applicable law, a Supplemental Resolution may extend the pledge of the Trust Estate to the payment of all or a portion of the Metropolitan Government's obligations under a Contract, provide that such obligations are payable from the Trust Estate, and establish the priority of the payment of such obligations (provided that no Contract payment shall be made prior to the payment of debt service on Bonds and no Termination Payment shall be made except from the Surplus Fund), in any case subject to the requirements and limitations set forth in this Article V.

(e) Nothing contained in the Resolution shall be construed to prevent the Metropolitan Government from acquiring, constructing or financing through the issuance of its bonds, notes or other evidences of indebtedness any facilities which do not constitute a part of the System for the purposes of the Resolution; provided that such bonds, notes or other evidences of indebtedness shall not be payable out of or secured by the Revenues or any Fund or

Account held under the Resolution and neither the cost of such facilities nor any expenditure in connection therewith or with the financing thereof shall be payable from the Revenues or from any such Fund or Account.

**SECTION 502. Establishment of Funds and Accounts.**

(a) The following Funds and Accounts, to be held by the Metropolitan Government, are hereby established:

- (i) Construction Fund, which shall contain a Project Account and a Capitalized Interest Account;
- (ii) Revenue Fund;
- (iii) Debt Service Fund, which shall contain one or more Tax Credit Payment Accounts, if applicable;
- (iv) Debt Service Reserve Fund, which shall contain one or more accounts as Additionally Secured Series are issued;
- (v) Rate Stabilization Fund; and
- (vi) Surplus Fund.

(b) There may be established within any Fund or Account established hereunder such further accounts or subaccounts as set forth in a Supplemental Resolution or as an Authorized Finance Officer may determine.

**SECTION 503. Construction Fund.**

(a) The proceeds of each Series of Bonds issued pursuant to Section 203 hereof shall be deposited in the Construction Fund, for further allocation between the Project Account and a Capitalized Interest Account for such Series, all as directed by the provisions of the Supplemental Resolution authorizing such Series of Bonds. Amounts deposited in the Project Account for a Series of Bonds shall be applied to the Costs as directed by the Supplemental Resolution. Amounts deposited in the Capitalized Interest Account for a Series of Bonds shall be transferred to the Debt Service Account for such Series of Bonds as and when needed to pay interest on such Series of Bonds, all as directed by the Supplemental Resolution. Amounts remaining on deposit in a Capitalized Interest Account beyond the period of time prescribed by the Supplemental Resolution for payment of interest on a Series of Bonds shall be transferred to the Project Account established by such Supplemental Resolution.

(b) The Metropolitan Government shall withdraw amounts from the Project Account for the payment of amounts due and owing on account of the Costs of the System upon determination of an Authorized Finance Officer that an obligation in the amount to be paid from the Project Account has been incurred by the Metropolitan Government and that each item thereof is a proper and reasonable charge against such Project Account, and that such amount has not been paid theretofore.

(c) At such time as there are no additional Costs to be paid from a Project Account, any moneys remaining therein may be transferred to another Project Account, to the Debt Service Fund to redeem Bonds of such Series, to the account within the Debt Service Reserve Fund attributable to such Series of Bonds, if applicable, or put to another use, in any case as directed by an Authorized Finance Officer and subject to a Counsel's Opinion to the effect that such application is permitted by applicable law and will not adversely affect any applicable exemption from federal income taxation of the interest on any Series of Bonds (or the Metropolitan Government's right to any Tax Credit Payments attributable thereto).

(d) Nothing in this Section 503 shall be construed to prevent the Metropolitan Government from permanently discontinuing the acquisition or construction of any portion of the System, the Costs of which are at the time being paid out of the Construction Fund, if the Metropolitan Council determines by resolution that such

discontinuance is necessary or desirable in the conduct of the business of the Metropolitan Government and not disadvantageous to the Holders of the Bonds.

(e) Notwithstanding anything herein to the contrary, to the extent that an Event of Default described in Section 801(a) shall have occurred and be continuing and no other moneys are available hereunder to cure such Event of Default, no moneys on deposit in the Construction Fund may be applied as set forth above in this Section 503. In such event, moneys on deposit in the Construction Fund shall be applied in accordance with Article VIII hereof.

**SECTION 504. Revenues and Revenue Fund.** Except as provided by Section 603, all Revenues shall be deposited promptly as collected by the Metropolitan Government to the credit of the Revenue Fund.

**SECTION 505. Payment of Operation and Maintenance Expenses.** Operation and Maintenance Expenses shall be paid from the Revenue Fund as they become due and payable.

**SECTION 506. Payments into Certain Funds.** The Metropolitan Government shall make monthly withdrawals from the Revenue Fund, to the extent of amounts available therein, in order to make the following deposits and payments, in the order and amounts set forth below:

(a) for deposit in the Debt Service Fund an amount sufficient to provide for the timely payments required by Section 507, in amounts calculated as prescribed by Section 507(b); then

(b) for deposit in the Debt Service Reserve Fund an amount sufficient to satisfy the requirements of Section 508 for such month; then

(c) for payment of Subordinated Indebtedness, the funding of such debt service reserves as may be required therewith and the payment of all related financing costs thereof, including without limitation any liquidity and credit enhancement charges or fees; then

(d) for payment to the Metropolitan Government, the amount of any payment in lieu of tax required of the System; then

(e) for deposit in the Rate Stabilization Fund, the amount, if any, budgeted for deposit into such Fund for the then current month as set forth in the then current Annual Budget or the amount otherwise determined by an Authorized Finance Officer to be deposited to such Fund for the month; and then

(f) for deposit in the Surplus Fund, the balance of any such remaining amounts in the Revenue Fund.

**SECTION 507. Debt Service Fund.**

(a) Sufficient moneys shall be deposited to the Debt Service Fund from the Revenue Fund for the purpose of paying the Bonds as they become due and payable and, if and to the extent directed by a Supplemental Resolution, for the purpose of making payments under Contracts. Specifically:

(i) Unless otherwise provided in a Supplemental Resolution, on or before each interest payment date for a Series of Bonds, there shall be deposited in the Debt Service Fund an amount which, together with available moneys already on deposit therein (including Capitalized Interest Account transfers and Hedge Receipts and Termination Payments attributable to such Series of Bonds, which shall be deposited directly to the Debt Service Fund) and amounts scheduled to be deposited therein from a Tax Credit Payment Account, is not less than the interest coming due on such Bonds on such interest payment date. Such amount shall be used solely to pay interest on the Bonds when due or pay Reimbursement Obligations for Credit Facilities under which the Credit Issuer makes all interest payments on the Bonds.

(ii) Unless otherwise provided in a Supplemental Resolution or a Hedge Agreement, on or before each payment date for Hedge Payments under a Qualified Hedge Agreement, the Metropolitan Government shall deposit in the Debt Service Fund an amount which, together with any Hedge Receipts and

other moneys already on deposit therein and available to make such payment, is not less than such Hedge Payments coming due on such payment date. Such amount shall be used solely to pay Hedge Payments under Qualified Hedge Agreements when due.

(iii) Unless otherwise provided in a Supplemental Resolution or a Contract, on or before each payment date for amounts due on Contracts, other than for Reimbursement Obligations and Qualified Hedge Agreements, the Metropolitan Government shall deposit in the Debt Service Fund an amount which, together with any other moneys already on deposit therein and available to make such payment, is not less than the amount coming due on such payment date. Such amount shall be used solely for such Contract payments when due.

(iv) Unless otherwise provided in a Supplemental Resolution, on or before each Principal Installment date for a Series of Bonds, the Metropolitan Government shall deposit in the Debt Service Fund an amount which, together with any other moneys already on deposit therein and available to make such payment, is not less than the principal payable on such Bonds on such Principal Installment date, other than principal to be paid from a source other than Revenues. Such amount shall be used solely for the payment of principal of the Bonds as the same shall become due and payable or to pay Reimbursement Obligations for Credit Facilities under which the Credit Issuer makes all principal payments on the Bonds.

(b) Without limiting Section 507(a), and except as may otherwise be set forth in a Supplemental Resolution, the payment required to be made each month from the Revenue Fund to the Debt Service Fund shall be calculated to provide for the deposit obligations described in Section 507(a) which will have accrued by the end of the month of such payment to the Debt Service Fund. For purposes of calculating the accrual of such deposit obligations, (i) Principal Installments of a Series will be deemed to accrue daily in equal amounts from the preceding Principal Installment date for such Series (but in no event shall any accrual be made for any Principal Installment more than one year prior to the due date of such Principal Installment or from the Date of Issuance of Bonds of such Series, whichever date is later); (ii) each fixed payment obligation (other than Principal Installments) will be deemed to accrue daily in equal amounts from the preceding relevant payment obligation date (but in no event more than one year prior to such payment obligation date or the initial incurrence of the payment obligation, whichever is later); (iii) principal and interest portions of the Accreted Value of Capital Appreciation Bonds or the Appreciated Value of Deferred Income Bonds shall accrue in the manner provided in Section 207(a); and (iv) variable payment obligations, whether interest related to Bonds issued with Variable Rates or otherwise, shall accrue as estimated by the Metropolitan Government. Any monthly deposit in excess of the amount required by this subsection (b) shall be credited against the next ensuing monthly payment or payments.

(c) There shall be established within the Debt Service Fund a Tax Credit Payment Account for each Series of Tax Credit Bonds. Tax Credit Payments received by the Metropolitan Government shall be deposited directly into the applicable Tax Credit Payment Account and such amounts shall be applied solely to the payment of debt service on the applicable Series of Tax Credit Bonds, at the times and in the manner otherwise described in this Section 507.

(d) Nothing herein shall limit the right of the Metropolitan Government to use amounts on deposit in the Debt Service Fund, together with such other amounts as may be determined by an Authorized Finance Officer, to defease all or a portion of Bonds attributable to such Debt Service Fund deposits, purchase all or a portion of such Bonds in the open market, or redeem all or a portion of such Bonds at their Redemption Price; provided that the amount thereafter remaining in the Debt Service Fund shall not be less than the remaining requirement of such Fund, as set forth in Section 506(a) and this Section 507. Any Bonds so purchased or redeemed by the Metropolitan Government which are subject to mandatory redemption requirements may be applied as a credit against such mandatory redemption requirements as prescribed by the Supplemental Resolution authorizing such Bonds.

#### **SECTION 508. Debt Service Reserve Fund.**

(a) There shall be deposited into the Debt Service Reserve Fund the amounts specified, if any, in Supplemental Resolutions with respect to one or more Additionally Secured Series. The Metropolitan Government shall establish by Supplemental Resolution an account within the Debt Service Reserve Fund for each separately secured Additionally Secured Series. Each such account shall be for the benefit and security of one or more



Additionally Secured Series and need not secure all Additionally Secured Series. Each such account shall be initially funded, maintained and replenished as prescribed by Supplemental Resolution. In the event that deposits are required hereunder for two or more accounts within the Debt Service Reserve Fund, transfers from the Revenue Fund to such accounts shall be made on a pro rata basis in proportion to the respective monthly funding requirements. Whenever, on the date that interest or principal is due on any Additionally Secured Series, there are insufficient moneys therefor in the Debt Service Fund, the Metropolitan Government shall, without further instructions, apply so much as may be needed of the moneys in the related account of the Debt Service Reserve Fund to prevent default in the payment of such interest or principal, with priority to interest payments.

(b) Whenever the moneys on deposit in an account established in the Debt Service Reserve Fund shall exceed the Debt Service Reserve Requirement related thereto, and after giving effect to any Reserve Fund Credit Facility that may be credited to such account in accordance with the provisions of the Supplemental Resolution establishing such subaccount, such excess shall be transferred from such account of the Debt Service Reserve Fund to the Debt Service Fund to redeem Bonds allocable thereto or to such other Fund or Account as may be directed by an Authorized Finance Officer, subject to a Counsel's Opinion to the effect that such application is permitted by applicable law and will not adversely affect any applicable exemption from federal income taxation of the interest on any Series of Bonds (or the Metropolitan Government's right to any Tax Credit Payments applicable thereto).

(c) Whenever the amount in an account within the Debt Service Reserve Fund attributable to an Additionally Secured Series, together with the amount in the Debt Service Fund for such Series, is sufficient to pay in full all such Bonds secured thereby in accordance with their terms (including the maximum amount of principal or applicable sinking fund Redemption Price and interest which could become payable thereon), the applicable funds on deposit in such account of the Debt Service Reserve Fund shall be transferred to the Debt Service Fund and applied to the timely payment of principal or Redemption Price, if applicable, and interest on the outstanding Bonds secured thereby.

(d) In the event of the refunding or defeasance of any Bonds of an Additionally Secured Series, the Metropolitan Government may withdraw from the separate account in the Debt Service Reserve Fund established for the benefit of the Bonds of such Additionally Secured Series all or any portion of the amounts accumulated therein and deposit such amounts with the Escrow Agent for the Bonds being refunded or defeased to be held for the payment of the principal or Redemption Price, if applicable, and interest on the Bonds being refunded or defeased; provided that such withdrawal shall not be made unless the amount thereafter remaining in such separate account in such account shall not be less than the remaining Debt Service Reserve Requirement related thereto.

(e) The Metropolitan Government may satisfy the Debt Service Reserve Requirement for an Additionally Secured Series by purchasing and depositing to the applicable account of the Debt Service Reserve Fund one or more Reserve Fund Credit Facilities, and may provide for the reimbursement of payments made by the providers of such Reserve Fund Credit Facilities from amounts required to be deposited to such account of the Debt Service Reserve Fund, all as may be set forth in a Supplemental Resolution.

#### **SECTION 509. Rate Stabilization Fund.**

(a) Each month, the Metropolitan Government shall transfer from the Rate Stabilization Fund to the Revenue Fund the amount budgeted for transfer into such Fund for the then current month as set forth in the then current Annual Budget or the amount otherwise determined by the Metropolitan Government to be deposited into such Fund for the month.

(b) The Metropolitan Government may, from time to time and upon written direction of an Authorized Finance Officer, withdraw amounts on deposit in the Rate Stabilization Fund and (i) transfer such amounts to any other Fund or Account established under the Resolution other than the Revenue Fund, (ii) use such amounts to purchase or redeem Bonds, (iii) use such amounts to otherwise provide for the payment of Bonds or interest thereon, or (iv) use such funds to make any other lawful payments.

**SECTION 510. Surplus Fund.** Amounts in the Surplus Fund shall be applied first to remedy any deficiencies in the amounts required to be withdrawn from the Revenue Fund pursuant to Sections 505 and 506(a)-(d), which such deficiencies shall be remedied from amounts on deposit in the Surplus Fund in the order set forth in

Sections 505 and 506(a)-(d). Amounts at any time not needed therefor may be applied to the payment of the cost of capital improvements to the System, the purchase, redemption, payment or provision for payment of Bonds or Subordinated Indebtedness, the payment of Contracts, including Termination Payments, and any other legal expenditure of System funds.

## ARTICLE VI

### DEPOSITORIES OF MONEYS, SECURITY FOR DEPOSITS AND INVESTMENT OF FUNDS

#### SECTION 601. Depositories.

(a) All moneys held by the Metropolitan Government under the Resolution shall be deposited with one or more Depositories in the name of the Metropolitan Government and shall be held in trust and applied only in accordance with the provisions of the Resolution, and each of the Funds and Accounts established by the Resolution shall be a trust fund for the purposes thereof.

(b) Each Depository shall be qualified to serve as such under applicable Tennessee law, and be willing and able to accept the office on reasonable and customary terms and authorized by law to act in accordance with the provisions of the Resolution.

#### SECTION 602. Deposits.

(a) All Revenues and moneys held by any Depository under the Resolution shall be in held on deposit in a manner permitted by applicable Tennessee law. Any such deposit may be made in the commercial banking department of any Fiduciary which may honor checks and drafts on such deposit with the same force and effect as if it were not a Fiduciary. To the extent permitted by applicable law, all moneys held by any Fiduciary, as such, may be deposited by such Fiduciary in its banking department on demand or, if and to the extent directed by the Metropolitan Government and acceptable to such Fiduciary, on savings or time deposit, provided that such moneys on deposit be available for use at the time when needed. Such Fiduciary shall allow and credit on such moneys such interest, if any, as it customarily allows upon similar funds of similar size and under similar conditions or as required by law.

(b) All moneys held under the Resolution by any Depository shall be held in such manner as may then be required by applicable Federal or State of Tennessee laws and regulations and applicable state laws and regulations of the state in which such Depository is located, regarding security for, or granting a preference in the case of, the deposit of public or trust funds.

(c) All moneys deposited with each Depository shall be credited to the particular Fund or Account to which such moneys belong.

**SECTION 603. Investment of Funds.** Unless further limited as to maturity by the provisions of a Supplemental Resolution, moneys held in the Funds and Accounts established under the Resolution may be invested and reinvested by the Metropolitan Government in Investment Securities which will provide moneys not later than such times as shall be needed for payments to be made from such Funds and Accounts. In making any investment in any Investment Securities with moneys in any Fund or Account established under the Resolution and held by the Metropolitan Government, the Metropolitan Government may combine such moneys with moneys in any other Fund or Account held by the Metropolitan Government, but solely for purposes of making such investment in such Investment Securities.

If provided in a Supplemental Indenture, interest earned on any moneys or investments in the Debt Service Reserve Fund shall be deposited in the Construction Fund. Otherwise, interest earned on any moneys or investments in each account of the Debt Service Reserve Fund shall be deposited in the Debt Service Fund and applied to the payment of the Bonds of the Additionally Secured Series secured thereby. Interest earned on any moneys or investments in all such other Funds and Accounts established herein shall be held in such Fund or Account for the purposes thereof.

**SECTION 604. Valuation and Sale of Investments.** Obligations purchased as an investment of moneys in any Fund created under the provisions of the Resolution shall be deemed at all times to be a part of such Fund and any profit realized from the liquidation of such investment shall be credited to such Fund, and any loss resulting from the liquidation of such investment shall be charged to the respective Fund.

In computing the amount in any Fund created under the provisions of the Resolution for any purpose provided in the Resolution, obligations purchased as an investment of moneys therein shall be valued at the amortized cost of such obligations. Such computation shall be determined as of June 30 in each year. Each Reserve Fund Credit Facility shall be valued at the lesser of the face amount thereof or the maximum amount available thereunder.

## **ARTICLE VII PARTICULAR COVENANTS OF THE METROPOLITAN GOVERNMENT**

The Metropolitan Government covenants and agrees with the Holders of the Bonds as follows:

**SECTION 701. Payment of Bonds and Contracts.** The Metropolitan Government shall duly and punctually pay or cause to be paid, but solely from the Trust Estate, and, in the case of the Bonds of each Additionally Secured Series, the account in the Debt Service Reserve Account in the Debt Service Fund with attributable thereto, and in the case of Tax Credit Bonds, the Tax Credit Payment Account, the principal or Redemption Price, if any, of every Bond and the interest thereon, at the dates and places and in the manner provided in the Bonds, according to the true intent and meaning thereof, and all amounts due and owing under the Contracts.

**SECTION 702. Extension of Payment of Bonds.** The Metropolitan Government shall not directly or indirectly extend or assent to the extension of the maturity of any of the Bonds or the time of payment of any claims for interest by the purchase or funding of such Bonds or claims for interest or by any other arrangement, and in case the maturity of any of the Bonds or the time for payment of any such claims for interest shall be extended, such Bonds or claims for interest shall not be entitled, in case of any default under the Resolution, to the benefit of the Resolution or to any payment out of Revenues or Funds established by the Resolution, including the investments and investment income, if any, thereof, or the moneys (except moneys held in trust for the payment of particular Bonds or claims for interest pursuant to the Resolution) held by the Metropolitan Government or the Fiduciaries, except subject to the prior payment of the principal of all Bonds Outstanding the maturity of which has not been extended and of such portion of the accrued interest on the Bonds as shall not be represented by such extended claims for interest. Nothing herein shall be deemed to limit the right of the Metropolitan Government to issue Refunding Bonds.

**SECTION 703. Offices for Servicing Bonds.** Except as may be otherwise provided in any Supplemental Resolution with respect to any Series of Bonds, the Metropolitan Government shall at all times maintain one or more agencies where Bonds may be presented for payment and shall at all times maintain one or more agencies where Bonds may be presented for registration, transfer or exchange, and where notices, demands and other documents may be served upon the Metropolitan Government in respect of the Bonds or of the Resolution. The Metropolitan Government hereby appoints each Bond Registrar to maintain an agency for the registration, transfer or exchange of Bonds, and for the service upon the Metropolitan Government of such notices, demands and other documents and the Bond Registrars shall continuously maintain or make arrangements to provide such services. The Metropolitan Government hereby appoints the Paying Agent or Agents in such cities as its respective agents to maintain such agencies for the payment or redemption of Bonds.

**SECTION 704. Further Assurance.** At any and all times the Metropolitan Government shall, as far as it may be authorized by law, pass, make, do, execute, acknowledge and deliver all and every such further resolutions, acts, deeds, conveyances, assignments, transfers and assurances as may be necessary or desirable for the better assuring, conveying, granting, pledging, assigning and confirming all and singular the rights, Revenues and other moneys, securities and funds hereby pledged, or intended so to be, or which the Metropolitan Government may become bound to pledge.

**SECTION 705. Power to Issue Bonds and Pledge Revenues and Other Funds.** The Metropolitan Government is duly authorized under all applicable laws to create and issue the Bonds and to adopt the Resolution and to pledge the Trust Estate and, in the case of the Bonds of Additionally Secured Series, the related account in the Debt Service Reserve Fund with respect thereto, and, in the case of Tax Credit Bonds, the Tax Credit Payment

Account, in the manner and to the extent provided in the Resolution. Except to the extent otherwise provided in the Resolution, the Trust Estate, each separate account in the Debt Service Reserve Fund and each Tax Credit Payment Account are and will be free and clear of any pledge, lien, charge or encumbrance thereon or with respect thereto superior to, or of equal rank with, the respective pledges created by the Resolution, and all corporate or other action on the part of the Metropolitan Government to that end has been and will be duly and validly taken. The Bonds and the provisions of the Resolution are and will be the valid and legally enforceable obligations of the Metropolitan Government in accordance with their terms and the terms of the Resolution. The Metropolitan Government shall at all times, to the extent permitted by law, defend, preserve and protect the pledge of the Trust Estate, each separate account in the Debt Service Reserve Fund, each Tax Credit Payment Account and all the rights of the Holders of the Bonds under the Resolution against all claims and demands of all persons whomsoever.

**SECTION 706. Power to Fix and Collect Rates, Fees and Charges.** The Metropolitan Government has, and will have as long as any Bonds are Outstanding, good right and lawful power to acquire, construct, reconstruct, improve, maintain, operate and repair the System and to fix, establish, maintain and collect rates, fees and charges with respect to the use of the capability of and sale of the output, capacity, use or service of the System subject to the terms of contracts relating thereto and subject to the jurisdiction of any applicable regulatory authority.

**SECTION 707. Creation of Liens; Sale and Lease of Property.**

(a) Except as described in Article II, the Metropolitan Government shall not issue any bonds, notes, debentures or other evidences of indebtedness of similar nature, other than the Bonds, payable out of or secured by a security interest in or pledge of the Trust Estate, any separate account in the Debt Service Reserve Fund, any Tax Credit Payment Account or other moneys, securities or funds held or set aside by the Metropolitan Government or by the Fiduciaries under the Resolution and shall not create or cause to be created any lien or charge on the Trust Estate, any separate account in the Debt Service Reserve Fund, any Tax Credit Payment Account or such moneys, securities or funds.

(b) No part of the System shall be sold, mortgaged, leased or otherwise disposed of, except as follows:

(i) the Metropolitan Government may sell or exchange at any time and from time to time any property or facilities constituting part of the System only if (A) the Metropolitan Government shall determine that such property or facilities are not needed or useful in the operation of the System, or (B) the net book value of the property or facilities sold or exchanged is not more than 5% of the net book value of the property and facilities of the System, or (C) there shall be filed with the records of the Metropolitan Government a certificate of a Consultant or a Consulting Engineer stating, in its opinion, that the sale or exchange of such property or facilities will not materially impair the ability of the Metropolitan Government to comply during the current or any future Fiscal Year with the provisions of Section 711. The proceeds of any sale or exchange of any property or facilities constituting a part of the System not used to acquire other property necessary or desirable for the safe or efficient operation of the System shall forthwith be deposited in the Revenue Fund; provided, however, that the amount of any such deposit to the Revenue Fund shall not constitute or be deemed to constitute Revenues for purposes of Section 711 of the Resolution;

(ii) The Metropolitan Government may lease or make contracts or grant licenses for the operation of, or make arrangements for the use of, or grant easements or other rights with respect to, any part of the System, provided that any such lease, contract, license, arrangement, easement or right (A) does not impede the operation by the Metropolitan Government or its agents of the System and (B) does not materially adversely affect the rights or security of the Holders of the Bonds under the Resolution. Any payments received by the Metropolitan Government under or in connection with any such lease, contract, license, arrangement, easement or right in respect of the System or any part thereof shall constitute Revenues for all purposes of the Resolution;

(iii) The limitations imposed upon the Metropolitan Government by subsection (b)(ii) (A) and (B) shall not apply to any disposition of property by the Metropolitan Government where: (A) such property is leased back to the Metropolitan Government under a lease having a term of years (including renewal options) (1) of not less than 75% of the remaining useful life of the property as estimated by the Metropolitan Government computed from the date of disposition and lease if such property is disposed of by sale or a lease

for more than 90% of the remaining estimated useful life or any other means of disposition except as set forth in the following clause (2), or (2) 75% of the term of the lease out by the Metropolitan Government if such property is disposed of by a lease for less than 90% of the useful life of the property so estimated, (B) fair value to the Metropolitan Government (as determined by the Metropolitan Government) is received by the Metropolitan Government for the property subject to such transaction, and (C) there shall have been delivered to the Metropolitan Council a Counsel's Opinion to the effect that the disposition and lease will not have a material adverse effect on the interests of the Holders of Outstanding Bonds (in rendering such opinion, such counsel may rely on such certifications of (1) any banking or financial institution serving as financial advisor to the Metropolitan Government, as to financial and economic matters, (2) the Consulting Engineer, as to matters within its field of expertise, and (3) such other experts, as to matters within their fields of expertise as it, in its reasonable judgment, determines necessary or appropriate). The proceeds of any such transaction not used to acquire other property necessary or desirable for the safe or efficient operation of the System shall forthwith be deposited in the Revenue Fund; and

(iv) The Metropolitan Government may permanently discontinue the acquisition or construction of any portion of the System as provided in Section 503(d).

**SECTION 708. (Reserved).**

**SECTION 709. Annual Budget.** The Metropolitan Government shall adopt an operating budget ("Annual Budget") covering the fiscal operations of the Department of Water and Sewerage Services prior to the beginning of each Fiscal Year. The Annual Budget need not necessarily be the budget prepared by the Metropolitan Government for Metropolitan Government budgeting purposes. The Annual Budget for the ensuing Fiscal Year shall set forth in reasonable detail the estimated Revenues, payments with respect to all obligations assumed or incurred by the Metropolitan Government with respect to the System (including, without limitation, the Bonds and Subordinated Indebtedness) and Operation and Maintenance Expenses and other expenditures for the System for such Fiscal Year, and shall include appropriations for the estimated payments with respect to such obligations for such Fiscal Year, the estimated Operation and Maintenance Expenses for the System for such Fiscal Year, including provisions for any general reserve for Operation and Maintenance Expenses or other reserves determined necessary or desirable by the Metropolitan Government and the estimated amount to be expended during such Fiscal Year from the Surplus Fund established by the Resolution. Such Annual Budget also shall set forth such detail with respect to such Revenues, payments with respect to such obligations, Operation and Maintenance Expenses and other expenditures and may set forth such additional material as the Metropolitan Government may determine. The Metropolitan Government may at any time, as necessary, adopt an amended Annual Budget for the remainder of the then current Fiscal Year. In the event the Metropolitan Government does not adopt an Annual Budget for a Fiscal Year on or before the first day of such Fiscal Year, the Annual Budget for the preceding Fiscal Year shall be deemed to have been adopted and be in effect for such Fiscal Year until the Annual Budget for such Fiscal Year has been adopted.

**SECTION 710. Operation and Maintenance of the System.** The Metropolitan Government shall at all times use its best efforts to operate or cause to be operated the System properly and in an efficient and economical manner, consistent with Prudent Utility Practice, and shall use its best efforts to maintain, preserve, reconstruct and keep the same or cause the same to be so maintained, preserved, reconstructed and kept, with the appurtenances and every part and parcel thereof, in good repair, working order and condition, and shall from time to time make, or use its best efforts to cause to be made, all necessary and proper repairs, replacements and renewals so that at all times the operation of the System may be properly and advantageously conducted.

**SECTION 711. Rates, Fees and Charges.**

(a) The Metropolitan Government shall at all times fix, establish, maintain, charge and collect rates, fees and charges for the use or the sale of the output, capacity or service of the System which shall be sufficient to produce Net Revenues in each Fiscal Year at least equal to the greater of:

- (i) 120% of the sum of the Debt Service Requirement on the Outstanding Bonds in such Fiscal Year; or
- (ii) 100% of the sum of:

(A) the Debt Service Requirement on the Outstanding Bonds and Subordinated Indebtedness in such Fiscal Year,

(B) the amounts required to be paid during such Fiscal Year into the Debt Service Reserve Fund pursuant to the Resolution, and

(C) the amount of all other charges and liens whatsoever payable out of Revenues during such Fiscal Year, including payments in lieu of taxes and any payments required during such Fiscal Year under Contracts to the extent not otherwise provided for in this subsection (ii).

(b) For purposes of this Section 711, the Metropolitan Government may, when calculating the Debt Service Requirement on Subordinated Indebtedness, make the adjustments and assumptions set forth in subsection (b) of the definition of “Debt Service Requirement”, as if such provisions were applicable to Subordinated Indebtedness; provided however, that there shall be disregarded any scheduled principal amount of Subordinated Indebtedness which are notes or other evidences of indebtedness issued in anticipation of the issuance of Bonds, the payment of which is to be paid from the proceeds of such Bonds.

(c) If the Metropolitan Government fails to prescribe, fix, maintain, and collect rates, fees, and other charges, or to revise such rates, fees, and other charges, in accordance with the provisions of this section in any Fiscal Year, but the Metropolitan Government in the next Fiscal Year has promptly taken all available measures to revise such rates, fees and other charges as advised by a Consultant retained by the Metropolitan Government to review the operations of the System, there shall be no Event of Default as described in Section 801 until at least the end of such next Fiscal Year and only then if Net Revenues are less than the amount required by this section.

#### **SECTION 712. Maintenance of Insurance.**

(a) With respect to the System, the Metropolitan Government will carry adequate public liability, fidelity, and property insurance, such as is maintained by similar utility systems; provided, the Metropolitan Government shall not be required to insure beyond the limits of immunity provided by Sections 29-20-101 *et seq.*, Tennessee Code Annotated, as amended, and provided further, the Metropolitan Government may self-insure against any risks that the Metropolitan Council deems appropriate provided the Metropolitan Government maintains adequate reserves, in such amounts as the Metropolitan Government determines is reasonable, for such self insurance. All such policies shall be for the benefit of and made payable to the Metropolitan Government and shall be on deposit with the Metropolitan Government.

(b) The proceeds received by the Metropolitan Government from any insurance policy shall be deposited in the Surplus Fund; provided that proceeds of any insurance covering business interruption loss shall be deposited to the Revenue Fund.

#### **SECTION 713. Accounts and Reports.**

(a) The Metropolitan Government shall keep or cause to be kept proper books of record and account (separate from all other records and accounts) in accordance with generally accepted accounting principles (or other comprehensive basis of accounting) in which complete and correct entries shall be made of its transactions relating to the System, the amount of Revenues and the application thereof and each Fund and Account established under the Resolution, and which, together with all other books and papers of the Metropolitan Government, including insurance policies, relating to the System, shall, subject to the terms thereof, at all times be subject to the inspection of the Holders of an aggregate of not less than 5% in principal amount of the Bonds then Outstanding or their representatives duly authorized in writing.

(b) The Metropolitan Government shall annually, within 180 days after the close of each Fiscal Year, file with the records of the Metropolitan Government and otherwise as provided by law, a copy of an annual report for such Fiscal Year, accompanied by an Accountant’s Certificate, relating to the System and including reasonably detailed information relating to the following: (i) the assets and liabilities of the System as of the end of such Fiscal Year; (ii) the Revenues and Operation and Maintenance Expenses of the System for such Fiscal Year; and (iii) a

summary, with respect to each Fund and Account established under the Resolution, of the receipts therein and disbursements therefrom during such Fiscal Year and the amount held therein at the end of such Fiscal Year; provided, however, that nothing herein shall preclude such annual report from being included as part of the audited financial statements of the Metropolitan Government generally. Such Accountant's Certificate shall state whether or not, to the knowledge of the signer, the Metropolitan Government is in default with respect to any of the covenants, agreements or conditions on its part contained in the Resolution, and if so, the nature of such default.

(c) The reports, statements and other documents required to be prepared or obtained by the Metropolitan Government pursuant to any provisions of the Resolution shall be available for the inspection of Holders of the Bonds at the office of the Metropolitan Government and shall be mailed to each Holder of a Bond who shall file a written request therefor with the Metropolitan Government. The Metropolitan Government may charge each Holder of a Bond requesting such reports, statements and other documents a reasonable fee to cover reproduction, handling and postage.

**SECTION 714. Payment of Taxes and Charges.** The Metropolitan Government will from time to time duly pay and discharge, or cause to be paid and discharged, all taxes, assessments and other governmental charges, or required payments in lieu thereof, lawfully imposed upon the properties of the Metropolitan Government or upon the rights, revenues, income, receipts, and other moneys, securities and funds of the Metropolitan Government when the same shall become due (including all rights, moneys and other property transferred, assigned or pledged under the Resolution), and all lawful claims for labor and material and supplies, except those taxes, assessments, charges or claims which the Metropolitan Government shall in good faith contest by proper legal proceedings if the Metropolitan Government shall in all such cases have set aside of its books reserves deemed adequate with respect thereto. Notwithstanding the foregoing, no payments may be paid to the Metropolitan Government from Revenues prior to the payment of debt service on the Bonds and Subordinated Indebtedness.

**SECTION 715. (Reserved).**

**SECTION 716. General.**

(a) The Metropolitan Government shall at all times maintain its corporate existence (or, if the Metropolitan Government shall be dissolved or abolished, a successor shall be named to assume the rights and obligations of the Metropolitan Government) and shall do and perform or cause to be done and performed all acts and things required to be done or performed by or on behalf of the Metropolitan Government under the provisions of applicable Tennessee law and the Resolution.

(b) Upon the date of authentication and delivery of any of the Bonds, all conditions, acts and things required by law and the Resolution to exist, to have happened and to have been performed prior to and in connection with the issuance of such Bonds shall exist, have happened and have been performed, and the issuance of such Bonds, together with all other obligations of the Metropolitan Government, shall comply in all respects with the applicable laws of the State of Tennessee.

## **ARTICLE VIII REMEDIES OF HOLDERS OF THE BONDS**

**SECTION 801. Events of Default.** If one or more of the following Events of Default shall happen:

(a) if default shall be made in the due and punctual payment of any Principal Installment of or any interest on any Bond when and as the same shall become due and payable (determined without giving effect to any payments made with funds provided by any Credit Issuer pursuant to any Credit Facility);

(b) if default shall be made by the Metropolitan Government in the performance or observance of any other of the covenants, agreements or conditions on its part in the Resolution, as supplemented, or in the Bonds

contained, and such default shall continue for a period of 90 days after written notice thereof to the Metropolitan Government by the Holders of not less than 10% in principal amount of the Bonds Outstanding;

(c) if there shall occur the dissolution (without a successor being named to assume the rights and obligations) or liquidation of the Metropolitan Government or the filing by the Metropolitan Government of a voluntary petition in bankruptcy, or adjudication of the Metropolitan Government as a bankrupt, or assignment by the Metropolitan Government for the benefit of its creditors, or the entry by the Metropolitan Government into an agreement of composition with its creditors, or the approval by a court of competent jurisdiction of a petition applicable to the Metropolitan Government in any proceeding for its reorganization instituted under the provisions of the Bankruptcy Code, as amended, or under any similar act in any jurisdiction which may now be in effect or hereafter enacted; or

(d) if an order or decree shall be entered, with the consent or acquiescence of the Metropolitan Government, appointing a receiver or receivers of the System, or any part thereof, or of the rents, fees, charges or other revenues therefrom, or if such order or decree, having been entered without the consent or acquiescence of the Metropolitan Government, shall not be vacated or discharged or stayed within 90 days after the entry thereof;

then, and in each and every such case, so long as such Event of Default shall not have been remedied, unless the principal of all the Bonds shall have already become due and payable, the Holders of not less than 25% in principal amount of the Bonds Outstanding or any Credit Issuer securing not less than 25% in principal amount of the Bonds Outstanding (by notice in writing to the Metropolitan Government), may declare the principal of all the Bonds then Outstanding, and the interest accrued thereon, to be due and payable immediately, and upon any such declaration the same shall become and be immediately due and payable, anything contained to the contrary in the Resolution or in any of the Bonds notwithstanding; provided, however, that in the event that a Supplemental Resolution authorizing Bonds for which a Credit Facility is provided provides that the principal of such Bonds, and the accrued interest thereon, may not be declared due and payable immediately (nor such declaration be rescinded and annulled, as provided in the following sentence) without the consent in writing of the Credit Issuer therefor, then such Bonds, and the interest accrued thereon, shall not become due and payable immediately as aforesaid (nor may such declaration be rescinded and annulled, as provided in the following sentence) without such written consent, and, in that event, the remedies available to the Holders of such Bonds (or such Credit Issuer, on behalf of such Holders) shall be limited to those set forth in Sections 802, 804 and 805. The right of the Holders of not less than 25% in principal amount of the Bonds to make such declaration as aforesaid, however, is subject to the condition that if, at any time after such declaration, but before the Bonds shall have matured by their terms, all overdue installments of interest upon the Bonds, together with interest on such overdue installments of interest to the extent permitted by law and all other sums then payable by the Metropolitan Government under the Resolution (except the principal of, and interest accrued since the next preceding interest date on, the Bonds due and payable solely by virtue of such declaration) shall either be paid by or for the account of the Metropolitan Government or provision shall be made for such payment, and all defaults under the Bonds or under the Resolution (other than the payment of principal and interest due and payable solely by reason of such declaration) shall be made good or adequate provision shall be made therefor, then and in every such case the Holders of 25% in principal amount of the Bonds Outstanding, by written notice to the Metropolitan Government, may rescind such declaration and annul such default in its entirety, but no such rescission or annulment shall extend to or affect any subsequent default or impair or exhaust any right or power consequent thereon.

#### **SECTION 802. Accounting and Examination of Records After Default.**

(a) The Metropolitan Government covenants that if an Event of Default shall have happened and shall not have been remedied, the books of record and account of the Metropolitan Government and all other records relating to the System shall at all times be subject to the inspection and use of the Holders and of their agents and attorneys.

(b) The Metropolitan Government covenants that if an Event of Default shall have happened and shall not have been remedied, the Metropolitan Government, upon demand of the Holders of not less than 25% in principal amount of the Bonds of the time Outstanding, will account, as if it were the trustee of an express trust, for all Revenues and other moneys, securities and funds pledged or held under the Resolution for such period as shall be stated in such demand.



**SECTION 803. Application of Revenues and Other Moneys After Default.**

(a) During the continuance of an Event of Default, the Metropolitan Government, subject to the provisions of Section 511, shall apply all moneys, securities, funds and Revenues held or received by the Metropolitan Government under the Resolution (other than amounts on deposit in the Debt Service Reserve Fund and the Tax Credit Payment Account of the Debt Service Fund) as follows and in the following order:

(i) Expenses of Receiver, Paying Agent and Bond Registrar – to the payment of the reasonable and proper charges, expenses, and liabilities of the receiver and the Paying Agent and Bond Registrar under the Resolution, and any receiver appointed pursuant to Section 804;

(ii) Operation and Maintenance Expenses – to the payment of the amounts required for Operation and Maintenance Expenses and for the reasonable renewals, repairs and replacements of the System necessary in the judgment of the Metropolitan Government to prevent a loss of Revenues. For this purpose the books of record and accounts of the Metropolitan Government relating to the System shall at all times be subject to the inspection of the Holders and their representatives and agents during the continuance of such Event of Default;

(iii) Principal Installments, Interest and Contract Payments – to the payment of the interest and Principal Installments then due on the Bonds, and payment under related Contracts, as follows:

(A) unless the principal of all the Bonds shall have become or have been declared due and payable,

First: Interest – to the payment to the persons entitled thereto of all installments of interest then due in the order of the maturity of such installments, together with accrued and unpaid interest on the Bonds theretofore called for redemption, and/or to the payment of amounts due under related Contracts and otherwise payable pursuant to Section 507(a)(i) and (ii) hereof, and, if the amount available shall not be sufficient therefor, then to the payment thereof ratably, according to the amounts due thereon, to the persons entitled thereto, without any discrimination or preference; and

Second: Principal Installments – to the payment to the persons entitled thereto of the unpaid Principal Installments of any Bonds which shall have become due, whether at maturity or by call for redemption, in the order of their due dates, and/or to the payment of amounts due under related Contracts and otherwise payable pursuant to Section 507(a)(iii) hereof and, if the amount available shall not be sufficient therefor, then to the payment thereof ratably, according to the amounts of the Principal Installments due on such date, to the persons entitled thereto, without any discrimination or preference; or

(B) if the principal of all the Bonds shall have become or have been declared due and payable, to the payment of the principal and interest then due and unpaid upon the Bonds, and of amounts then due and unpaid on related Contracts otherwise payable pursuant to Section 507(a), without preference or priority, ratably, according to the amounts due respectively for principal and interest and such Contract payments, to the persons entitled thereto without any discrimination or preference except as to any difference in the respective rates of interest specified in the Bonds;

(iv) Subordinated Indebtedness – to the payment of principal, redemption price and interest then due on Subordinated Indebtedness in accordance with the resolutions authorizing such Subordinated Indebtedness; and

(v) Contract Payments Otherwise Payable from Surplus Fund – to the payment of amounts due under Contracts and otherwise payable from the Surplus Fund.

(b) During the continuance of an Event of Default, the Metropolitan Government shall apply all amounts on deposit in each separate account in the Debt Service Reserve Fund in the following order:

(i) unless the principal of all of the Bonds shall have become or have been declared due and payable,

First: Interest – to the payment to the persons entitled thereto of all installments of interest then due on the Bonds of each Additionally Secured Series secured by such separate account in the order of the maturity of such installments, together with accrued and unpaid interest on the Bonds of such Additionally Secured Series theretofore called for redemption, and, if the amount available shall not be sufficient to pay in full any such installment or installments maturing on the same date, then to the payment thereof ratably, according to the amounts due thereon, to the persons entitled thereto, without any discrimination or preference; and

Second: Principal Installments – to the payment to the persons entitled thereto of the unpaid Principal Installments of any Bonds of such Additionally Secured Series which shall have become due, whether at maturity or by call for redemption, in the order of their due dates, and, if the amount available shall not be sufficient to pay in full all such Bonds due on any date, then to the payment thereof ratably, according to the amounts of Principal Installments due on such date, to the persons entitled thereto, without any discrimination or preference; or

(ii) if the principal of all of the Bonds shall have become or have been declared due and payable, to the payment of the principal and interest then due and unpaid upon the Bonds of each Additionally Secured Series secured by such separate account without preference or priority of principal over interest or of interest over principal, or of any installment of interest over any other installment of interest, or of any such Bond over any other such Bond, ratably, according to the amounts due respectively for principal and interest, to the persons entitled thereto without any discrimination or preference except as to any difference in the respective rates of interest specified in such Bonds.

(c) During the continuance of an Event of Default, the Metropolitan Government shall apply all amounts on deposit in each separate Tax Credit Payment Account in the Debt Service Fund in the Debt Service Fund first to the payment of interest and then to the payment of Principal Installments on the related Series of Tax Credit Bonds.

If and whenever all overdue installments of interest on all Bonds, together with the reasonable and proper charges, expenses and liabilities of the Fiduciaries, and all other sums payable by the Metropolitan Government under the Resolution including the principal and Redemption Price of and accrued unpaid interest on all Bonds which shall then be payable by declaration or otherwise, and including all payments under the Contracts, shall either be paid by or for the account of the Metropolitan Government, and all defaults under the Resolution or the Bonds shall be made good, the Metropolitan Government and the Holders shall be restored, respectively, to their former positions and rights under the Resolution. No such restoration of the Metropolitan Government and the Holders to their former positions and rights shall extend to or affect any subsequent default under the Resolution or impair any right consequent thereon.

**SECTION 804. Appointment of Receiver.** If an Event of Default shall happen and shall not have been remedied, the Holders of the Bonds shall be entitled as a matter of right, upon application to a court of competent jurisdiction, to have appointed a receiver of the System.

**SECTION 805. Remedies Not Exclusive.** No remedy by the terms of the Resolution conferred upon or reserved to the Holders of the Bonds is intended to be exclusive of any other remedy, but each and every such remedy shall be cumulative and shall be in addition to every other remedy given under the Resolution or existing at law or in equity or by statute on or after the date of adoption of the Resolution.

**SECTION 806. Effect of Waiver and Other Circumstances.**

(a) No delay or omission of any Holder of a Bond to exercise any right or power arising upon the happening of an Event of Default shall impair any right or power or shall be construed to be a waiver of any such Event of Default or be an acquiescence therein; and every power and remedy given by this Article to the Holders of the Bonds may be exercised from time to time and as often as may be deemed expedient by the Holders of the Bonds.

(b) Prior to the declaration of maturity of the Bonds as provided in Section 801, the Holders of not less than a majority in principal amount of the Bonds at the time Outstanding, or their attorneys-in-fact duly authorized, may on behalf of the Holders of all of the Bonds waive any past default under the Resolution and its consequences, except a default in the payment of interest on or principal or Redemption Price, if any, of any of the Bonds. No such waiver shall extend to any subsequent or other default or impair any right consequent thereon.

**SECTION 807. Notice of Default.** The Metropolitan Government shall promptly mail written notice of the occurrence of any Event of Default to each Holder of Bonds then Outstanding at its address, if any, appearing upon the registry books of the Metropolitan Government.

## **ARTICLE IX THE FIDUCIARIES**

### **SECTION 901. Paying Agents.**

(a) The Metropolitan Government shall appoint one or more Paying Agents for the Bonds of each Series, and may at any time or from time to time appoint one or more other Paying Agents. Each Paying Agent shall be an officer of the Metropolitan Government, a transfer agent duly registered pursuant to the Securities Exchange Act of 1934, as amended, or a bank or trust company organized under the laws of any state of the United States or a national banking association, having capital stock, surplus and undivided earnings aggregating at least \$25,000,000, and willing and able to accept the office on reasonable and customary terms and authorized by law to perform all the duties imposed upon it by the Resolution.

(b) Each Paying Agent shall signify its acceptance of the duties and obligations imposed upon it by the Resolution by executing and delivering to the Metropolitan Government a written acceptance thereof.

(c) Unless otherwise provided, the principal offices of the Paying Agents are designated as the respective offices or agencies of the Metropolitan Government for the payment of the interest on and principal or Redemption Price of the Bonds.

(d) Any Paying Agent may at any time resign and be discharged of the duties and obligations created by the Resolution by giving at least 60 days' written notice to the Metropolitan Government and the other Paying Agents, provided that no such resignation shall be effective until a successor shall have been appointed. Any Paying Agent may be removed at any time by an instrument filed with such Paying Agent and signed by an Authorized Finance Officer, provided that no such removal shall be effective until a successor shall have been appointed. In the event of the resignation or removal of any Paying Agent, such Paying Agent shall pay over, assign and deliver any moneys and records held by it in such capacity to its successor.

**SECTION 902. Responsibilities of Fiduciaries.** The recitals of fact herein and in the Bonds contained shall be taken as the statements of the Metropolitan Government and no Fiduciary assumes any responsibility for the correctness of the same. No Fiduciary makes any representations as to the validity or sufficiency of the Resolution or of any Bonds or as to the security afforded by the Resolution, and no Fiduciary shall incur any liability in respect thereof. Each Bond Registrar shall, however, be responsible for its representation contained in its certificate of authentication on the Bonds. No Fiduciary shall be under any responsibility or duty with respect to the application of any moneys paid by such Fiduciary in accordance with the provisions of the Resolution to the Metropolitan Government or to any other Fiduciary. No Fiduciary shall be under any obligation or duty to perform any act which would involve it in expense or liability or to institute or defend any suit in respect thereof, or to advance any of its own moneys, unless properly indemnified. No Fiduciary shall be liable in connection with the performance of its duties hereunder except for its own negligence, misconduct or default.

**SECTION 903. Evidence on Which Fiduciaries May Act.**

(a) Each Fiduciary, upon receipt of any notice, resolution, request, consent, order, certificate, report, opinion, bond or other paper or document furnished to it pursuant to any provision of the Resolution, shall examine such instrument to determine whether it conforms to the requirements of the Resolution and shall be protected in acting upon any such instrument believed by it to be genuine and to have been signed or presented by the proper party or parties. Each Fiduciary may consult with counsel, who may or may not be counsel to the Metropolitan Government, and the opinion of such counsel shall be full and complete authorization and protection in respect of any action taken or suffered by it under the Resolution in good faith and in accordance therewith.

(b) Whenever any Fiduciary shall deem it necessary or desirable that a matter be proved or established prior to taking or suffering any action under the Resolution, such matter (unless other evidence in respect thereof be therein specifically prescribed) may be deemed to be conclusively proved and established by a certificate of an Authorized Finance Officer, and such certificate shall be full warrant for any action taken or suffered in good faith under the provisions of the Resolution upon the faith thereof; but in its discretion the Fiduciary may in lieu thereof accept other evidence of such fact or matter or may require such further or additional evidence as to it may seem reasonable.

(c) Except as otherwise expressly provided in the Resolution, any request, order, notice or other direction required or permitted to be furnished pursuant to any provision thereof by the Metropolitan Government to any Fiduciary shall be sufficiently executed in the name of the Metropolitan Government by an Authorized Finance Officer.

**SECTION 904. Compensation.** The Metropolitan Government shall pay to each Fiduciary from time to time reasonable compensation for all services rendered under the Resolution, and also all reasonable expenses, charges, counsel fees and other disbursements, including those of its attorneys, agents and employees, incurred in and about the performance of its powers and duties under the Resolution, in accordance with the agreements made from time to time between the Metropolitan Government and the Fiduciary. Subject to the provisions of Section 902, the Metropolitan Government further agrees to indemnify and save each Fiduciary harmless against any liabilities which it may incur in the exercise and performance of its powers and duties hereunder and which are not due to its negligence, misconduct or default.

**SECTION 905. Certain Permitted Acts.** Any Fiduciary may become the owner of any Bonds, with the same rights it would have if it were not a Fiduciary. To the extent permitted by law, any Fiduciary may act as depository for, and permit any of its officers or directors to act as a member of, or in any other capacity with respect to, any committee formed to protect the rights of Holders of the Bonds or to effect or aid in any reorganization growing out of the enforcement of the Bonds or the Resolution, whether or not any such committee shall represent the Holders of a majority in principal amount of the Bonds then Outstanding.

**SECTION 906. Merger or Consolidation.** Any company into which any Fiduciary may be merged or converted or with which it may be consolidated, or any company resulting from any merger, conversion or consolidation to which it shall be a party or any company to which any Fiduciary may sell or transfer all or substantially all of its corporate trust business, provided such company shall be a bank or trust company organized under the laws of any state of the United States or a national banking association and shall be authorized by law to perform all the duties imposed upon it by the Resolution, shall be the successor to such Fiduciary without the execution or filing of any paper or the performance of any further act.

**SECTION 907. Adoption of Authentication.** In case any of the Bonds shall have been authenticated but not delivered, any successor Bond Registrar may adopt the certificate of authentication of any predecessor Bond Registrar so authenticating such Bonds and deliver such Bonds so authenticated; and in case any of the said Bonds shall not have been authenticated, any successor Bond Registrar may authenticate such Bonds in the name of the predecessor Bond Registrar, or in the name of the successor Bond Registrar, and in all such cases such certificate shall have the full force which it is anywhere in said Bonds or in the Resolution provided that the certificate of the Bond Registrar shall have.

**ARTICLE X  
SUPPLEMENTAL RESOLUTIONS**

**SECTION 1001. Supplemental Resolutions Effective Without Delivery of Counsel's Opinion as to No Material Adverse Effect and Without Consent of Holders of the Bonds.** For any one or more of the following purposes and at any time or from time to time, a Supplemental Resolution of the Metropolitan Government may be adopted, which, upon its adoption and compliance with the provisions of Section 1004, shall be fully effective in accordance with its terms:

(a) to close the Resolution against, or provide limitations and restrictions in addition to the limitations and restrictions contained in the Resolution on, the authentication and delivery of Bonds or the issuance of other evidences of indebtedness;

(b) to add to the covenants and agreements of the Metropolitan Government in the Resolution other covenants and agreements to be observed by the Metropolitan Government which are not contrary to or inconsistent with the Resolution as theretofore in effect;

(c) to add to the limitations and restrictions in the Resolution other limitations and restrictions to be observed by the Metropolitan Government which are not contrary to or inconsistent with the Resolution as theretofore in effect;

(d) to authorize Bonds of a Series and, in connection therewith, specify and determine the matters and things referred to in Article II, and also any other matters and things relative to such Bonds which are not contrary to or inconsistent with the Resolution as theretofore in effect, or to amend, modify or rescind any such authorization, specification or determination at any time prior to the first authentication and delivery of such Bonds;

(e) to provide for the issuance, execution, delivery, authentication, payment, registration, transfer and exchange of Bonds in loan agreement form payable to the counterparty thereto, and, in connection therewith, to specify and determine any matters and things relative thereto;

(f) to confirm, as further assurance, any security interest or pledge under, and the subjection to any security interest or pledge created or to be created by, the Resolution of the Trust Estate;

(g) if and to the extent authorized in a Supplemental Resolution authorizing an Additionally Secured Series of Bonds, to specify the qualifications of any provider of a Reserve Fund Credit Facility and to establish the terms of reimbursement of such a provider of a Reserve Fund Credit Facility from amounts on deposit in the Debt Service Reserve Fund; and

(h) to modify any of the provisions of the Resolution in any other respect whatever, provided that (i) such modification shall be, and be expressed to be, effective only after all Bonds of each Series Outstanding at the date of the adoption of such Supplemental Resolution shall cease to be Outstanding, and (ii) such Supplemental Resolution shall be specifically referred to in the text of all Bonds of any Series authenticated and delivered after the date of the adoption of such Supplemental Resolution and of Bonds issued in exchange therefor or in place thereof.

**SECTION 1002. Supplemental Resolutions Effective Upon Delivery of Counsel's Opinion as to No Material Adverse Effect.** For any one or more of the following purposes and at any time or from time to time, a Supplemental Resolution may be adopted, which, upon delivery of a Counsel's Opinion to the effect that the provisions of such Supplemental Resolution will not have a material adverse effect on the interests of the Holders of Outstanding Bonds (in rendering such opinion, such counsel may rely on certifications of the Financial Adviser or a Consultant as to financial and economic matters, the Consulting Engineer, as to matters within its field of expertise and such other experts, as to matters within their fields of expertise as it, in its reasonable judgment, determines necessary or appropriate) and compliance with the provision of Section 1004, shall be fully effective in accordance with its terms:

(a) to cure any ambiguity, supply any omission, or cure or correct any defect or inconsistent provision in the Resolution;

(b) to insert such provisions clarifying matters or questions arising under the Resolution as are necessary or desirable and are not contrary to or inconsistent with the Resolution as theretofore in effect; or

(c) to make any other modification to or amendment of the Resolution which such counsel in its reasonable judgment shall determine will not have a material adverse effect on the interests of Holders of the Bonds.

Notwithstanding any other provision of the Resolution, in determining whether the interests of the Holders of Outstanding Bonds are materially adversely affected, such counsel shall consider the effect on the Holders of any Bonds for which a Credit Facility has been provided without regard to such Credit Facility.

**SECTION 1003. Supplemental Resolutions Effective with Consent of Holders of the Bonds.** At any time or from time to time, a Supplemental Resolution may be adopted subject to consent by Holders of the Bonds in accordance with and subject to the provisions of Article XI, which Supplemental Resolution, upon compliance with the provisions of said Article XI, shall become fully effective in accordance with its terms as provided in said Article XI.

**SECTION 1004. General Provisions.**

(a) The Resolution shall not be modified or amended in any respect except as provided in and in accordance with and subject to the provisions of this Article X and Article XI. Nothing in this Article X or Article XI contained shall affect or limit the right or obligation of the Metropolitan Government to adopt, make, do, execute, acknowledge or deliver any resolution, act or other instrument pursuant to the provisions of Section 704 or the right or obligation of the Metropolitan Government to execute and deliver to any Fiduciary any instrument which elsewhere in the Resolution it is provided shall be delivered to said Fiduciary.

(b) Any Supplemental Resolution referred to and permitted or authorized by Section 1001 or 1002 may be adopted by the Metropolitan Government without the consent of any of the Holders of the Bonds, but shall become effective only on the conditions, to the extent and at the time provided in said Sections, respectively. Prior to the effectiveness of any such Supplemental Resolution the Metropolitan Government shall secure a Counsel's Opinion stating that such Supplemental Resolution has been duly and lawfully adopted in accordance with the provisions of the Resolution, is authorized or permitted by the Resolution, and is valid and binding upon the Metropolitan Government in accordance with its terms.

(c) No Supplemental Resolution shall change or modify any of the rights or obligations of any Fiduciary without its written assent thereto.

(d) Promptly following the adoption thereof, the Metropolitan Government shall send to each Credit Issuer a copy of each Supplemental Resolution adopted pursuant to Section 1002 or Article XI of the Resolution, together with a full transcript of all proceedings relating to the adoption thereof.

**ARTICLE XI  
AMENDMENTS**

**SECTION 1101. Mailing.** Any provision in this Article for the mailing of a notice or other paper to Holders of the Bonds shall be fully complied with if it is mailed postage prepaid to each Holder of affected Bonds then Outstanding at its address, if any, appearing upon the registry books of the Metropolitan Government.

**SECTION 1102. Powers of Amendment.** Any modification or amendment of the Resolution and of the rights and obligations of the Metropolitan Government and of the Holders of the Bonds thereunder, in any particular, may be made by a Supplemental Resolution, with the written consent given as provided in Section 1103 of the Holders of not less than a majority in principal amount of the Bonds affected by such modification or amendment Outstanding at the time such consent is given; provided, however, that if such modification or amendment will, by its terms, not take effect so long as any Bonds of any specified like Series and maturity remain Outstanding, the consent of the Holders of such Bonds shall not be required and such Bonds shall not be deemed to be Outstanding for the purpose of any calculation of Outstanding Bonds under this Section. No such modification or amendment shall permit a change

in the terms of redemption or maturity of the principal of any Outstanding Bond or of any installment of interest thereon or a reduction in the principal amount or the Redemption Price thereof or in the rate of interest thereon without the consent of the Holder of such Bond, or shall reduce the percentages or otherwise affect the classes of Bonds the consent of the Holders of which is required to effect any such modification or amendment, or shall change or modify any of the rights or obligations of any Fiduciary without its written assent thereto. For the purpose of this Section, a Series shall be deemed to be affected by a modification or amendment of the Resolution if the same adversely affects or diminishes the rights of the Holders of Bonds of such Series. The Metropolitan Government may in its discretion determine whether or not in accordance with the foregoing powers of amendment Bonds of any particular Series or maturity would be affected by any modification or amendment of the Resolution and any such determination shall, absent manifest error, be binding and conclusive on the Metropolitan Government and all Holders of Bonds. For the purpose of this Section, a change in the terms of redemption of any Outstanding Bond shall be deemed only to affect such Bond, and shall be deemed not to affect any other Bond. For the purpose of this Section, the Holders of any Bonds may include the initial Holder or Holders thereof, which shall in all cases be deemed to include the underwriter of such Bonds, and the consent of such initial Holder shall be fully binding on all subsequent Holders of such Bonds.

**SECTION 1103. Consent of Holders of the Bonds.** The Metropolitan Government may at any time adopt a Supplemental Resolution making a modification or amendment permitted by the provisions of Section 1102 to take effect when and as provided in this Section. A copy of such Supplemental Resolution (or brief summary thereof or reference thereto), together with a request to affected Holders of the Bonds for their consent thereto, shall be mailed by the Metropolitan Government to affected Holders of the Bonds (but failure of any affected Holder of a Bond to receive such copy and request shall not affect the validity of the Supplemental Resolution when consented to as in this Section provided). Such Supplemental Resolution shall not be effective unless and until (i) there shall have been filed with the Metropolitan Government (a) the written consents of Holders of the percentages of affected Outstanding Bonds specified in Section 1102 and (b) a Counsel's Opinion stating that such Supplemental Resolution has been duly and lawfully adopted and filed by the Metropolitan Government in accordance with the provisions of the Resolution, is authorized or permitted by the Resolution, and is valid and binding upon the Metropolitan Government in accordance with its terms, and (ii) a notice shall have been mailed as hereinafter in this Section 1103 provided. It shall not be necessary that the consents of Holders of Bonds approve the particular form of wording of the proposed modification or amendment or of the proposed Supplemental Resolution effecting such modification or amendment, but it shall be sufficient if such consents approve the substance of the proposed amendment or modification. Each such consent shall be effective only if accompanied by proof of the holding, at the date of such consent, of the Bonds with respect to which such consent is given, which proof shall be such as is permitted by Section 1202. A certificate or certificates executed by an Authorized Finance Officer stating that such Officer has examined such proof and that such proof is sufficient in accordance with Section 1202 shall be prima facie evidence that the consents have been given by the Holders of the Bonds described in such certificate or certificates. Any such consent shall be binding upon the Holder of the affected Bonds giving such consent and, anything in Section 1202 to the contrary notwithstanding, upon any subsequent Holder of such affected Bonds and of any Bonds issued in exchange therefor (whether or not such subsequent Holder thereof has notice thereof) unless such consent is revoked in writing by the Holder of such Bonds giving such consent or a subsequent Holder thereof by filing with the Metropolitan Government, prior to the time when the written statement of the Metropolitan Government hereinafter in this Section 1103 provided for is filed, such revocation. The fact that a consent has not been revoked may likewise be proved by a certificate of an Authorized Finance Officer filed with the records of the Metropolitan Government to the effect that no revocation thereof is on file with the Metropolitan Government. At any time after the Holders of the required percentages of affected Bonds shall have filed their consents to the Supplemental Resolution, an Authorized Finance Officer shall make and file with the records of the Metropolitan Government a written statement that the Holders of such required percentages of affected Bonds have filed consents. Such written statements shall be prima facie evidence that such consents have been so filed. At any time thereafter, notice stating in substance that the Supplemental Resolution adopted by the Metropolitan Government on a stated date (a copy of which is on file with the Metropolitan Government) has been consented to by the Holders of the required percentages of affected Bonds and will be effective as provided in this Section 1103, may be given to affected Holders of the Bonds by the Metropolitan Government by mailing such notice to affected Holders of the Bonds (but failure of any affected Holder of a Bond to receive such notice shall not prevent such Supplemental Resolution from becoming effective and binding as in this Section 1103 provided) not more than 90 days after the Holders of the required percentages of affected Bonds shall have filed their consents to the Supplemental Resolution and the written statement of an Authorized Finance Officer hereinabove provided for is filed. The Metropolitan Government shall file with its records proof of the mailing of such notice. A record, consisting of the certificates or statements required or permitted by this Section 1103 to be made by the Metropolitan Government,

shall be proof of the matters therein stated. Such Supplemental Resolution making such amendment or modification shall be deemed conclusively binding upon the Metropolitan Government, the Fiduciaries and the Holders of all Bonds at the expiration of 40 days after the filing with the records of the Metropolitan Government of the proof of the mailing of such last mentioned notice, except in the event of a final decree of a court of competent jurisdiction setting aside such Supplemental Resolution in a legal action or equitable proceeding for such purpose commenced within such 40 day period; provided, however, that any Fiduciary and the Metropolitan Government during such 40 day period and any such further period during which any such action or proceeding may be pending shall be entitled in their absolute discretion to take such action, or to refrain from taking such action, with respect to such Supplemental Resolution as they may deem expedient.

**SECTION 1104. Modifications by Unanimous Consent.** The terms and provisions of the Resolution and the rights and obligations of the Metropolitan Government and of the Holders of the Bonds thereunder may be modified or amended in any respect upon the adoption by the Metropolitan Government of a Supplemental Resolution and the consent of the Holders of all of the affected Bonds then Outstanding, such consents to be given as provided in Section 1103 except that no notice to affected Holders of the Bonds by mailing shall be required; provided, however, that no such modification or amendment shall change or modify any of the rights or obligations of any Fiduciary without the filing with the records of the Metropolitan Government of the written assent thereto of such Fiduciary in addition to the consent of the affected Holders of the Bonds.

**SECTION 1105. Exclusion of Bonds.** Bonds owned or held by or for the account of the Metropolitan Government shall not be deemed Outstanding for the purpose of consent or other action or any calculation of affected Outstanding Bonds provided for in this Article XI, and the Metropolitan Government shall not be entitled with respect to such Bonds to give any consent or take any other action provided for in this Article. At the time of any consent or other action taken under this Article, an Authorized Finance Officer shall file with the records of the Metropolitan Government a certificate as to all Bonds so to be excluded.

**SECTION 1106. Notation on Bonds.** Bonds authenticated and delivered after the effective date of any action taken as in Article X or this Article XI provided may, if the Metropolitan Government so determines, bear a notation by endorsement or otherwise in form approved by the Metropolitan Government as to such action, and in that case upon demand of the Holder of any Bond Outstanding at such effective date and presentation of its Bond for the purpose at the principal office of the Bond Registrar therefor or upon any transfer or exchange of any Bond Outstanding at such effective date, suitable notation shall be made on such Bond or upon any Bond issued upon any such transfer or exchange by such Bond Registrar as to any such action. If the Metropolitan Government shall so determine, new Bonds so modified as in the opinion of the Metropolitan Government to conform to such action shall be prepared, authenticated and delivered, and upon demand of the Holder of any Bond then Outstanding shall be exchanged, without cost to such Holder, for Bonds of the same Series, principal amount, maturity, interest rate and redemption provisions then Outstanding, upon surrender of such Bonds. Any action taken as in Article X or this Article XI provided shall be effective and binding upon all Holders of Bonds notwithstanding that the notation is not endorsed on all Bonds.

## ARTICLE XII MISCELLANEOUS

### **SECTION 1201. Defeasance.**

(a) Except as otherwise set forth in a Supplemental Resolution authorizing Bonds, all or any portion of the Bonds for the payment, prepayment or redemption of which sufficient moneys or sufficient Defeasance Securities shall have been deposited with the Paying Agent or an Escrow Agent (whether upon or prior to the maturity or the redemption date of such Bonds) shall be deemed to be paid and no longer Outstanding under the Resolution; provided, however, that if such Bonds are to be redeemed prior to the maturity thereof, notice of such redemption shall have been duly given as provided in Article IV or firm and irrevocable arrangements shall have been made for the giving of such notice. Defeasance Securities shall be considered sufficient for purposes of this Section 1201 only: (i) if such Defeasance Securities are not callable by the issuer of the Defeasance Securities prior to their stated maturity, and (ii) if such Defeasance Securities fall due and bear interest in such amounts and at such times as will assure sufficient cash (whether or not such Defeasance Securities are redeemed by the Metropolitan Government pursuant to any right of redemption) to pay currently maturing interest and to pay principal and redemption premiums, if any, when due on



the Bonds without rendering the interest on any tax-exempt Bonds includable in gross income of any owner thereof for federal income tax purposes.

(b) For purposes of determining whether Bonds bearing interest at Variable Rates shall be deemed to have been paid prior to the maturity or redemption date thereof, as the case may be, in accordance with subsection (a) above, the interest to come due on such Bonds on or prior to the maturity date or redemption date thereof, as the case may be, shall be calculated at the maximum rate permitted by the terms thereof; provided, however, that if on any date, as a result of such Bonds having borne interest at less than such maximum rate for any period, the total amount of moneys and Defeasance Securities on deposit with the Escrow Agent for the payment of interest on such Bonds is in excess of the total amount which would have been required to be deposited with the Escrow Agent on such date in respect of such Bonds in order to satisfy subsection (a) above, the Escrow Agent shall, if requested by the Metropolitan Government, pay the amount of such excess to the Metropolitan Government free and clear of any trust, lien or pledge securing the Bonds or otherwise existing under the Resolution.

(c) The Metropolitan Government may at any time surrender to the Bond Registrar for cancellation by it any Bonds previously authenticated and delivered under the Resolution which the Metropolitan Government may have acquired in any manner whatsoever. All such Bonds, upon such surrender and cancellation, shall be deemed to be paid and retired.

(d) If all Bonds and related obligations secured by a lien on the Trust Estate have been paid or provision for payment thereof made pursuant to this Section 1201 and related Supplemental Resolution(s), then at the option of the Metropolitan Government, the terms and provisions of the Resolution may be determined as void and of no further force or effect.

#### **SECTION 1202. Evidence of Signatures of Holders of the Bonds and Ownership of Bonds.**

(a) Any request, consent, revocation of consent or other instrument which the Resolution may require or permit to be signed and executed by the Holders of the Bonds may be in one or more instruments of similar tenor, and shall be signed or executed by such Holders or by their attorneys appointed in writing. Proof of the execution of any such instrument, or of an instrument appointing any such attorney, shall be sufficient for any purpose of the Resolution (except as otherwise therein expressly provided) if made in the following manner, or in any other manner satisfactory to the Metropolitan Government, which may nevertheless in its discretion require further or other proof in cases where it deems the same desirable:

The fact and date of the execution by any Holder of a Bond or its attorney of such instrument may be proved by a guarantee of the signature thereon by a bank or trust company or by the certificate of any notary public or other officer authorized to take acknowledgements of deeds, that the person signing such request or other instrument acknowledged to such person the execution thereof, or by an affidavit of a witness of such execution, duly sworn to before such notary public or other officer. Where such execution is by an officer of a corporation or association or a member of a partnership, on behalf of such corporation, association or partnership, such signature, guarantee, certificate or affidavit shall also constitute sufficient proof of the authority of such officer or member.

(b) The ownership of Bonds and the amount, numbers and other identification, and date of holding the same shall be proved by the registry books.

(c) Any request or consent by the owner of any Bond shall bind all future owners of such Bond in respect of anything done or suffered to be done by the Metropolitan Government or any Fiduciary in accordance therewith.

**SECTION 1203. Moneys Held for Particular Bonds.** The amounts held by any Fiduciary for the payment of the interest, principal or Redemption Price due on any date with respect to particular Bonds shall, on and after such

date and pending such payment, be set aside on its books and held in trust by it for the Holders of the Bonds entitled thereto.

**SECTION 1204. Preservation and Inspection of Documents.** All documents received by any Fiduciary under the provisions of the Resolution shall be retained in its possession and shall be subject at all reasonable times to the inspection of the Metropolitan Government, any other Fiduciary, and by Holders of the Bonds and their agents and their representatives, any of whom may make copies thereof.

**SECTION 1205. Parties Interested Herein.** Nothing in the Resolution expressed or implied is intended or shall be construed to confer upon, or to give to, any person or corporation, other than the Metropolitan Government, the Fiduciaries, the Holders of the Bonds and any Credit Issuers and Qualified Hedge Providers, any right, remedy or claim under or by reason of the Resolution or any covenant, condition or stipulation thereof; and all the covenants, stipulations, promises and agreements in the Resolution contained by and on behalf of the Metropolitan Government shall be for the sole and exclusive benefit of the Metropolitan Government, the Fiduciaries, the Holders of the Bonds and any Credit Issuers and Qualified Hedge Providers; provided, however, that the foregoing shall not be construed so as to limit or restrict the Metropolitan Government's right to covenant in any other instrument for the benefit of any other entity that the Metropolitan Government will comply with any or all of such covenants, stipulations, promises or agreements, and that the Metropolitan Government will not amend, modify, supplement or change the same.

**SECTION 1206. No Recourse on the Bonds.** No recourse shall be had for the payment of the principal of or interest on the Bonds or for any claim based thereon or on the Resolution against any present or former member or officer of the Metropolitan Government or any person executing the Bonds.

**SECTION 1207. Publication of Notice; Suspension of Publication; Notice to Credit Enhancers.**

(a) Any publication to be made under the provisions of the Resolution in successive weeks or on successive dates may be made in each instance upon any business day of the week and need not be made in the same Authorized Newspaper for any or all of the successive publications but may be made in a different Authorized Newspaper.

(b) If, because of the temporary or permanent suspension of the publication or general circulation of any Authorized Newspaper or for any other reason, it is impossible or impractical to publish any notice pursuant to the Resolution in the manner herein provided, then such publication in lieu thereof shall constitute a sufficient publication of such notice.

(c) All notices and other documents required or permitted to be given to Holders of Bonds also shall be given to each Credit Issuer and Qualified Hedge Provider, at the address to be specified by it by notice in writing to the Metropolitan Government.

**SECTION 1208. Action by Credit Issuer When Action by Holders of the Bonds Required.** Except as otherwise provided in a Supplemental Resolution authorizing Bonds for which a Credit Facility is being provided, if not in default in respect of any of its obligations with respect to the Credit Facility for the Bonds of a Series, or a maturity within a Series, the Credit Issuer for, and not the actual Holders of, the Bonds of a Series, or a maturity within a Series, for which such Credit Facility is being provided, shall be deemed to be the Holder of Bonds of any Series, or maturity within a Series, as to which it is the Credit Issuer at all times for the purpose of (a) giving any approval or consent to the effectiveness of any Supplemental Resolution or any amendment, change or modification of the Resolution as specified in Sections 1003, 1102, 1103 and 1104 or any other provision hereof, which requires the written approval or consent of Holders; provided, however, that the provisions of this Section shall not apply to any change in the terms of redemption or maturity of the principal of any Outstanding Bond or of any installment of interest thereon or a reduction in the principal amount or the Redemption Price thereof or in the rate of interest thereon, or shall reduce the percentages or otherwise affect the classes of Bonds the consent of the Holders of which is required to effect any such modification or amendment, or shall change or modify any of the rights or obligations of any

Fiduciary without its written assent thereto, and (b) giving any approval or consent, exercising any remedies or taking any other action in accordance with the provisions of Article VIII hereof.

**SECTION 1209. Severability of Invalid Provisions.** If any one or more of the covenants or agreements provided in the Resolution on the part of the Metropolitan Government or any Fiduciary to be performed should be contrary to law, then such covenant or covenants or agreement or agreements shall be deemed severable from the remaining covenants and agreements, and shall in no way affect the validity of the other provisions of the Resolution.

**SECTION 1210. Holidays.** Except as may be provided otherwise in a Supplemental Resolution, if the date for making any payment or the last date for performance of any act or the exercising of any right, as provided in the Resolution, shall be a legal holiday or a day on which banking institutions in the cities in which are located the principal offices of the Paying Agents are authorized by law to remain closed, such payment may be made or act performed or right exercised on the next succeeding day not a legal holiday or a day on which such banking institutions are authorized by law to remain closed, with the same force and effect as if done on the nominal date provided in the Resolution, and no interest shall accrue for the period after such nominal date.

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**APPENDIX B**

**WATER AND SEWER SYSTEM AUDITED FINANCIAL INFORMATION FOR THE FISCAL YEAR ENDED JUNE 30, 2019**

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Audited Financial Statements of the Metropolitan Government and supplementary information as of and for the fiscal year ending June 30, 2019, together with the independent auditor's report from Crosslin & Associates, P.C., and Audited Financial Statements of the Department of Water and Sewerage Services and other financial information, together with the independent auditor's report from Crosslin & Associates, P.C. as of and for the fiscal year ending June 30, 2019 are available through the website of the Metropolitan Government's Department of Finance at <http://www.nashville.gov/Finance/Office-of-the-Treasurer/Debt/Investor-Relations.aspx> and are hereby incorporated by reference as part of this Appendix B. The incorporated Audited Financial Statements include audited financial statements and supplementary information regarding the Department of Water and Sewerage Services. To the extent there are any differences between the electronically posted financial statements of the Metropolitan Government and the printed financial statements of the Metropolitan Government, the printed version shall control.

Crosslin & Associates, P.C. has not been engaged to perform and has not performed, since the date of its reports included herein, any procedure on the financial statements addressed in those reports and has not performed any procedures relating to this Official Statement.

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**APPENDIX C**

**FINANCIAL AND OPERATING INFORMATION REGARDING THE WATER AND SEWER SYSTEM**

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**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY**  
**DEPARTMENT OF WATER AND SEWERAGE SERVICES**  
**HISTORICAL STATEMENT OF REVENUES, OPERATING EXPENSES, DEBT SERVICE AND**  
**UNRESTRICTED FUND BALANCES**

For the Fiscal Years Ending June 30

The following table presents a summary of the revenues, operating expenses, debt service and unrestricted fund balances for the System for the 2015-2019 Fiscal Years. The following table is not necessarily indicative of the future financial performance of the System.

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Operating Revenues (1)	214,336,054	217,358,507	218,400,714	223,840,989	227,648,685
Non-Operating Revenues	1,184,697	1,664,320	1,563,447	2,963,497	6,301,910
Total Revenues	<u>215,520,751</u>	<u>219,022,827</u>	<u>219,964,161</u>	<u>226,804,486</u>	<u>233,950,595</u>
Operating Expenses:					
Less Depreciation and Amortization	<u>100,824,504</u>	<u>112,207,776</u>	<u>112,654,492</u>	<u>113,857,694</u>	<u>111,335,275</u>
Net Revenues (2)	114,696,247	106,815,051	107,309,669	112,946,792	122,615,320
Debt Service on Prior First Lien Bonds	19,275,713	16,716,413	15,927,469	15,095,013	15,024,438
Debt Service on Outstanding (3)(4) Second Lien Bonds (Series 2010,2013 &2017)	30,289,290	30,168,768	32,430,176	42,539,399	50,301,108
Debt Service on SRF Loans/Subordinate Series 2012 Bonds (5)	<u>5,925,250</u>	<u>15,967,750</u>	<u>22,789,625</u>	<u>21,742,375</u>	<u>20,766,500</u>
Total Debt Service	55,490,253	62,852,930	71,147,269	79,376,786	86,092,046
Undesignated Fund Balance	50,293,536	46,344,242	42,627,873	53,674,825	57,426,839
<b><u>Debt Service Coverage Ratio</u></b>					
for First and Second Liens Bonds (6)	2.31	2.28	2.22	1.96	1.88
Total Debt Service Coverage (7)	2.07	1.70	1.51	1.42	1.42

(1) Beginning in 2011, Operating Revenue include sewer surcharge fees previously dedicated solely to the payment of the System's Tennessee Local Development Authority Loans

(2) As defined by the Bond Resolution

(3) Debt Service on Outstanding Second Lien Bonds reflects in part the refunding of the Tennessee Local Development Authority Loans previously paid solely from sewer surcharge fees

(4) Net of federal subsidy on direct payment bonds

(5) The System's outstanding State Revolving Loans were refunded by the Subordinate Series 2012 Bonds in February 2012

(6) Net Revenue divided by debt service on the Prior First Lien Bonds and the Outstanding Second Lien Bonds

(7) Net Revenue divided by the debt service on all debt

## **THE WATER AND SEWER SYSTEM**

### **General**

The formation of the Metropolitan Government of Nashville and Davidson County (“Metropolitan Government”) effective on April 1, 1963 resulted in the combination and consolidation of (1) the water and sewage system formerly maintained by the City of Nashville, and (2) the sewage system formerly maintained by the Davidson County Improvement District No. 1 into the Department of Water and Sewerage Services (the “Department”). The Department, established under Section 8.501 of the Charter of the Metropolitan Government, is charged with the responsibility for construction, operation and maintenance of all water and sanitary sewer facilities for the Metropolitan Government as well as the collection of all charges for the services of such utilities.

In addition to the facilities thus combined and consolidated, the Water System (as defined herein) and the Sewer System (as defined herein) have gradually been expanded and include: improvements financed by revenues; improvements resulting from capital contributions in aid of construction by private developers; all improvements, additions and extensions financed with the proceeds of outstanding bonds and governmental grants; and facilities acquired from the Nashville Suburban Utility District, the First Suburban Water Utility District of Davidson County, Tennessee, the sewerage service of the Parkwood Service Company, the Joelton Water Utility District, the City of Lakewood water and sewerage system, Rayon City Water Company, the Cumberland Utility District, the sewerage service of the Nolensville/College Grove Utility District in Williamson County, and the Old Hickory Utility District of Davidson County.

Under the Charter and Tennessee Code Annotated §7-3-302, the Metropolitan Government can assume and take over any water and/or sewer utility district located within its boundaries through ordinances adopted by the Metropolitan Council. Several such systems currently operate inside Davidson County and if a decision is made to consolidate these operations into the Department, the Metropolitan Government will take subject to or retire all debts and liabilities of the systems. The economic impact of such an assumption or takeover would be evaluated prior to the submission of any legislation to the Metropolitan Council. By contract dated February 1996, the Metropolitan Government has agreed not to take over the Harpeth Valley Utility District before February 2026.

Historically, the Department managed and partially funded the Stormwater operations of the Metropolitan Government. In 2009, the Metropolitan Government established a Stormwater Division of the Department as a stand-alone enterprise fund with its own set of service fees, which are now an itemized part of the water bill. Further funding of Stormwater operations will not be required of the Department.

### **The Water System**

The water provided by the Department’s water system (the “Water System”) currently meets all physical, chemical, and bacteriological water quality standards established by the United States Environmental Protection Agency (the “EPA”) under the Safe Drinking Water Act, as amended, by the Tennessee Department of Environment and Conservation (“TDEC”) and under the Tennessee Safe Drinking Water Act of 1983, as amended.

The Water System draws water from the Cumberland River and processes it through modern filtration plants for delivery into the distribution system. Raw water is treated by chemical coagulation, flocculation, clarification, filtration, and disinfection. The existing water treatment plants and pumping facilities have a total delivery capacity of 180 million gallons per day. In Fiscal Year 2019, net sales to retail customers were 22.7 billion gallons. The peak demand for water from the system during Fiscal Year 2019 was 115.07 million gallons on May 29, 2019.

The Omohundro Water Treatment Plant, originally placed in service in 1889, has been extensively expanded and modernized over the years. This campus includes the George Reyer Pumping Station, the Robert L. Lawrence Jr. Filtration Plant, and the Boiler House and a recently built electrical substation. The substation includes (4) 2.5 megawatt backup electrical generators that can run the entire Omohundro Campus at its rated maximum capacity of 90 million gallons per day. The central control room located at this plant provides constant monitoring of the status of all water pumping stations and reservoirs.

The K. R. Harrington Water Treatment Plant was completed and placed into operation in 1977. This facility provided an additional capacity of 90 million gallons per day to the Metropolitan Government’s water treatment capabilities. In 1999, as a precaution against prolonged power outages caused by ice storms, tornadoes, or other

disasters, the Harrington Plant was equipped with four emergency generators with a capacity of 1,750 kW each. In 2014, these generators were moved to a new electrical building and all electrical gear was modernized. These generators allow the Department to operate the plant at a capacity of 72 million gallons per day.

The water from the existing treatment plants is delivered into the water distribution system via six major transmission mains. The distribution system contains approximately 3,086 miles of mains ranging in diameter from 2 inches to 60 inches. Storage is provided by the 51 million gallon capacity Eighth Avenue Reservoir and various other reservoirs with a combined additional capacity of 37.3 million gallons and by tanks and stand pipes, many of which are utilized to provide water service in areas of higher elevation than the central urbanized area. At this time only half of the Eighth Avenue Reservoir is in service, thus reducing its capacity to 25.5 million gallons. The Water System has 54 booster-pumping stations to deliver water to these higher regions.

As an extension of Nashville’s recent economic boom, the Water System has experienced continuous growth over the past decade, and as of Fiscal Year 2019, has provided direct service to 209,048 customers. In Fiscal Year 2019, 60% of the water provided by the Water System was consumed by commercial and industrial customers (including residential apartment complexes), and 40% by residential customers. The following table illustrates growth of the Water System over the past 10 years.

#### Water System Facts in Brief

	Fiscal Years Ended June 30		
	<u>FY 2019</u>	<u>FY 2009</u>	<u>(2009-2019) Ten Year History</u>
Use of Water			
Water Customers <sup>(1)</sup>	209,048	175,121	19.4%
Average Daily Finished (MGD)	91.6	92.3	-0.8%
Water Sales for Fiscal Year <sup>(2)</sup> (billions of gallons)	23.2	23.8	-2.4%
Maximum Daily Demand (millions of gallons)	115.1	124.9	-7.9%
Growth of System			
Utility Plant Value <sup>(3)</sup> Millions	2,091	1,544	35.4%
Reservoirs	37	40	-7.5%
Storage Capacity of Reservoirs (millions of gallons)	62.8	92.6	-32.2%
Water Pumping Stations	56	57	-1.8%
Miles of Distribution Lines	3,086	2,873	7.4%
Fire Hydrants	21,561	19,752	9.2%

(1) As per billing records

(2) Excludes wholesale customers

(3) Property, Plant & Equipment of the Combined Water and Sewer System, net of depreciation

The Department has a contract with Water Systems Optimization to perform an independent water audit annually. The audit for Fiscal Year 2019 is complete. During the audit, the system input volume is categorized as revenue water or non-revenue water. Non-revenue water is further broken down into real losses (leakage) and apparent losses (meter error). For Fiscal Year 2019, the real losses were 28.3% of system input volume and the apparent losses were 1.3% of system input volume.

#### **The Sewer System**

The existing sewerage system (the “Sewer System”) comprises 3,013 miles of gravity sewers, 119 pumping stations, 167.0 miles of force main and four treatment plants, of which the three most significant are the Central Wastewater Treatment Plant, the Dry Creek Wastewater Treatment Plant, and the Whites Creek Wastewater Treatment Plant. The Central Wastewater Treatment Plant has a design capacity of 125 million gallons per day (mgd), and a peak hydraulic capacity of 250 mgd plus an additional 80 mgd excess flow treatment for a total capacity of 330

mgd. The Dry Creek Wastewater Treatment Plant has a design capacity of 24 mgd of secondary treatment and a maximum hydraulic capacity of 62 mgd, while the Whites Creek Wastewater Treatment Plant has a design capacity of 37.5 mgd of secondary treatment and a peak hydraulic capacity of 120 mgd.

The Department properly treats and disposes of sludge produced at its treatment plants consistent with State and Federal regulations, and has constructed a \$132 million biosolids facility which stabilizes and anaerobically digests treatment plant residuals. The heat dryers at the facility run on the methane produced by the digesters, and produce a Class A Exceptional Quality biosolid that is marketed as a soil amendment and fertilizer. The facility has significantly reduced the need to landfill the residuals, and decreased the plant carbon footprint by reducing greenhouse gas emissions and truck traffic.

The following table provides data on the use and facilities of the Sewer System over the last ten years. The number of customers served has increased 13.0% since Fiscal Year 2009. Over the last ten years, there has been an 8.1% increase in the number of sewerage pumping stations and a concurrent 4.6% increase in the miles of sewer lines. Wastewater treatment has increased by approximately 19.7%.

Sewer System Facts in Brief

	Fiscal Years Ended June 30		
	<u>FY 2019</u>	<u>FY 2009</u>	<u>(2009-2019)</u> <u>Ten Year History</u>
Sewer Customers	212,061	187,655	13.0%
Annual Sewage Treatment (billions of gallons)	66.1	55.2	19.7%
Average Daily Treatment (millions of gallons)	180.98	151.20	19.7%
Growth of System			
Utility Plant Value <sup>(1)</sup> (millions)	2,091	1,544	35.4%
Total Miles of Sewer Lines	3,180	3,039	4.6%
Treatment Plants	4	4	0.0%
No. of Sewer Pumping Stations	119	110	8.1%

<sup>(1)</sup> Property, Plant & Equipment of the Combined Water and Sewer System, net of depreciation

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## Major Customers

The following list shows the largest customers of the Department for water and sewer services for the fiscal year ended June 30, 2019, ranked according to billings.

### WATER SERVICES LARGEST CUSTOMERS (In 1,000's)

Vanderbilt	\$1,980
City of Brentwood	742
RHP Operations OH, LLC	531
Metro District Energy Systems	399
MWS – Biosolids Treatment Plant	289
Wometco Coca Cola	280
Bridgestone Tire & RC	277
David Lipscomb University	275
NCG Utility District	273
Purity Dairies, Inc.	231

### SEWER SERVICES LARGEST CUSTOMERS (In 1,000's)

Aramark Uniform Services	\$8,110
Hendersonville Utility District	3,939
Vanderbilt	3,185
Brentwood Lift Station	3,044
City of Mt. Juliet	3,028
City of Goodlettsville	2,964
City of Lavergne	1,925
RHP Operations OH, LLC	975
MWS – Biosolids Treatment Plant	513
Bridgestone Tire & RC	465

## Management and Personnel

SCOTT A. POTTER, P.E., Director, graduated from Vanderbilt University with a Bachelor of Engineering Degree in Electrical Engineering in 1986 and was commissioned as an Ensign in the United States Navy. While serving in the Navy Mr. Potter received a Master's Degree in Mechanical Engineering from the Naval Postgraduate School in Monterey, California, in 1991. Mr. Potter served on two destroyers: USS COCHRANE (DDG 21) and USS CALLAGHAN (DDG 994). While stationed at the United States Naval Academy, he earned the academic rank of Master Instructor, teaching courses in Statics, Materials Science, Applied Fluid Mechanics, Thermodynamics, and Applied Thermodynamics. The Louisville Water Company, in Louisville, Kentucky, employed Mr. Potter as Manager of Distribution Operations from 1998 to 2001. He was also an adjunct member of the faculty of the Mechanical Engineering Department in the Speed Scientific School at the University of Louisville, and is presently an adjunct instructor at Belmont University in the Mathematics Department.

DAVID M. TUCKER, Deputy Director (Operations), graduated from Tennessee State University with a Bachelor of Science Degree in Biological Sciences. He has thirty-two years of experience in water and wastewater treatment plant operations and maintenance. Mr. Tucker holds a State of Tennessee Grade IV Operator's Certification in both water and wastewater treatment. The Operations division is responsible for the operation and maintenance of all water and wastewater treatment facilities, all associated pumping stations and reservoirs, Laboratory Services and Security. He joined the Department in 1987 as an Assistant Plant Manager and has progressed to his present position. He is a member of the Water Environmental Federation and the American Water Works Association.

CYRUS Q. TOOSI, P.E., Assistant Director (Engineering), graduated from the University of Texas at Austin, in 1988, with a Bachelor of Science Degree in Civil Engineering. Mr. Toosi held a position with the City of Houston for two years prior to coming to Nashville. In 1990 he joined the Department as a hydraulic modeler, and as a flow monitoring, and planning specialist. He has since advanced to his present position. He has twenty years of experience in the engineering of water and wastewater systems. He has created MWS' Master Water Growth Plan, Asset Management Program, and Water Infrastructure Rehabilitation Program. He also currently serves as the Chief Engineer for the Department and also oversees the Overflow Abatement- Clean Water Nashville Program. He holds a Professional Engineering License in the State of Tennessee and is a member of the American Water Works Association and Water Environment Federation.

LEANNE B. SCOTT, P.E., Assistant Director (Repair and Maintenance of Distribution and Collection Systems), holds a Bachelor of Science degree in Chemical Engineering from Tennessee Technological University and a Master of Science degree in Engineering Management from the University of Tennessee. She has over thirty years of experience in water and wastewater systems, working across the department in treatment, distribution/collection systems, engineering planning. Leanne is a registered professional engineer in the State of Tennessee and holds Grade 4 Water Treatment Operator, Grade 2 Water Distribution Operator and Grade 2 Wastewater Collection Operator licenses. She is a member of the Water Environment Federation, served as President of the KY-TN Section in 2011-12 and 2013-14 and currently serves as the Tennessee Delegate. She is also a member of the American Waterworks Association and serves on the section's Nonrevenue Water Committee.

BRENT R. FREEMAN, P.E., Assistant Director (Operations - Wastewater), holds a Bachelor of Science Degree in Civil Engineering from Tennessee Technological University. He is a licensed Professional Engineer, holds state operator certifications in Wastewater Operations, Collection, and Distribution, and is a Certified Energy Manager. He is a member of the Water Environment Federation, Association of Energy Engineers, and the American Water Works Association. Prior to joining the Department in 2002, Mr. Freeman worked as a consulting engineer; and he has over 25 years of professional experience in municipal operations and engineering.

GLEN K. DOSS, Assistant Director (Water Operations), holds an Associate's Degree in Electrical Engineering Technology and a Bachelor's Degree in Business Administration. He has 27 years of experience in water and wastewater treatment plant operations and maintenance. Mr. Doss holds a State of Tennessee Grade IV Operator's Certification in both water and wastewater treatment. He joined the Department in 1992 as a helper in the electric shop at the Central Wastewater Treatment and has progressed to his present position. He is the licensed operator in direct charge of the water treatment system as per TDEC rules and regulations.

HAL BALTHROP, P.E., Assistant Director (Development Services), holds a Bachelor of Science Degree in Civil Engineering from Tennessee Technological University. He is a licensed Professional Engineer and the Department's State Licensed Collection System Manager and Water Distribution Manager. Mr. Balthrop also serves on the Tennessee Board of Architectural and Engineering Examiners, serves as State Chair of the Tennessee Water and Wastewater Agency Response Network, serves as Chair of the KY/TN AWWA Water Utility Committee on Legislative Issues and is a member of WEF, AWWA, TWWA, and TAUD.

MARTHA SEGAL, Assistant Director (Customer Services & Information Services), graduated from Old Dominion University with a Bachelor of Science in Business Administration Degree and a Master of Business Administration Degree. She worked with the Department of Utilities in Norfolk, Virginia for 14 years prior to being recruited to Metro Water Services in 2000. She served for many years on the AWWA Virginia Section Customer Service Committee. She is a member of the American Water Works Association Board of Directors serving as a Director At Large. She is also a member of the DMIC (Diversity & Member Inclusion Committee) for AWWA. She is a Past Chair of the KY/TN Section AWWA.



AMANDA K. DEATON-MOYER, Assistant Director (Business & Finance), holds a Bachelors of Arts Degree in Political Science and a Master of Public Administration degree from the University of Georgia. She is a Certified Municipal Financial Officer for the State of Tennessee and is a member of the Association of Government Accounts, the Government Financial Officers Association. Prior to joining the Department in 2017, she served as the City Manager for the City of Forest Hills, Tennessee and the Assistant Chief Administrative Officer for Budget and Strategic Planning for the City of Macon, Georgia. She has over 10 years of professional experience in financial planning and management in the government sector.

At the end of Fiscal Year 2019, the Department employed 667 persons.

## **Pension Plans and Other Post-Employment Benefits**

### **Overview**

Employees of the Department participate in one of two main pension plan groups:

1. Metro Active Plans
2. Closed Plans maintained under the Guaranteed Payment Program

The Department's expenses for the various pension plans are determined by the contribution rate established by the Metro Employee Benefit Board and totaled \$4,801,699 for the year ended June 30, 2019.

The Metro Active Plans consist of two divisions – A and B. Division A was established at the inception of the Metropolitan Government on April 1, 1963 and implemented on November 4, 1964. At that time, all employees of the former city and county governments were given the option of continuing as participants of the pension plans of those organizations or transferring to the Metro Plan Division A. Division A of the Metro Plan was closed to new members on July 1, 1995.

On July 1, 1995, Division B of the Metro Active Plans was established for all non-certified employees of the Metropolitan Nashville Public Schools and all other Metropolitan Government employees. Metropolitan Government employees who were members of Division A were given the option to transfer to Division B as of January 1, 1996. At that time, 95% of the approximately 11,300 employees elected to transfer to Division B.

The Metro Active Plan Division B is a non-contributory, defined benefit plan, covering approximately 13,000 current employees and 10,300 retired and deferred vested employees. The Active Plan covers all employees of the Metropolitan Government other than teachers. Contributions attributable to employees of the general government (approximately 75% of total) are funded from the Metropolitan Government's operating fund and revenues. The balance of contributions (approximately 25%) is attributable to the Metropolitan Government employees at enterprise funds and other non-operating funded agencies of the Metropolitan Government (e.g. contributions for water and sewer department employees and funded from water and sewer revenues).

The Closed Plans are defined benefit plans collectively covering one active employee and approximately 1,400 retired employees. Contributions to the Closed Plans are funded from the Metropolitan Government's operating fund through the Guaranteed Payment Plan.

### **Metro Active Plan**

#### *Benefits*

Normal retirement for employees other than police officers and fire fighters occurs at the unreduced retirement age which is the earlier of (a) the date when the employee's age plus the completed years of credited employee service equals 85, but not before age 60; and (b) the date when the employee reaches age 65 and completes 5 years of credited employee service. The lifetime annual benefit is calculated as 1.75% X final average earnings X years of credited service. Final average earnings are the highest 60 consecutive months of credited service divided by 5. Benefits fully vest on completing 5 years of service. Employees with a date of hire on or after July 1, 2013 will become fully vested on completing 10 years of service.

Normal retirement for police officers and fire fighters occurs any time after attaining the unreduced retirement age which is the date when the employee's age plus completed years of credited police and fire service equals 75, but not before age 53 nor after age 60. The lifetime annual benefit is the sum of 2% of final average earnings X years of credited police and fire service up to 25 years; plus 1.75% of final average earnings X year of credited police and fire service over 25 years. Final average earnings is the highest 60 consecutive months of credited service divided by 5. Benefits fully vest upon completing 5 years of service. Employees with a date of hire on or after July 1, 2013 will become fully vested on completing 10 years of service.

An early retirement pension is available for retired employees if the retirement occurs prior to the eligibility of normal retirement but after age 50 (45 for police and fire) and after the completion of 10 years credited employee service. Benefits are reduced by 4% for each of the first 5 years by which the retirement date precedes the normal retirement age, and by 8% for each additional year by which the retirement date precedes the normal retirement age.

Any employee who terminates after completion of required years of service to be vested and before eligibility for normal or early retirement is eligible to receive a monthly deferred pension commencing on the first day of the month following the attainment of unreduced retirement age computed and payable in accordance with the plan.

### *Funding*

Minimum Required Employer Contribution. The Metropolitan Code of Ordinance requires the Metropolitan Government to contribute to the Metro Active Plans each fiscal year an amount equal to a percentage of the annual payroll of members who are eligible employees and who are covered for pension benefits the percentage to be known as the "employer contribution rate." The employer contribution rate applicable for any fiscal year is determined by resolution of the benefit board at a public meeting held at least four months prior to the beginning date of such fiscal year and filed with the Metropolitan Clerk and must be no less than the smaller of (1) three-tenths of one percent plus the employer contribution rate applicable to the prior fiscal year, or (2) an employer contribution rate, which shall be the ratio of the actuarially determined contribution level to the amount of the valuation payroll, on the basis of an actuarial valuation of the system made as of the last day of the fiscal year preceding the adoption of the contribution rate. The actuarially determined contribution level equals the sum of normal cost and a percentage of unfunded past service liabilities, such percentage to be determined by the board at a level at least equal to the actuarial valuation interest rate. The actuarial valuation must be made by a qualified or accredited actuary according to accepted and sound actuarial principles and methods and based on actuarial assumptions which have been recommended by the actuary and approved by the Benefit Board.

Historic Employer Contribution. Metro has historically made employer contributions at a rate higher than the minimum required contribution. Metro's policy has been to make annual contributions to the Active Plans equal to the actuary's recommended rate, sufficient to amortize the unfunded liability over the 40 year period commencing in 1978. Beginning with the plan year ended June 30, 2006, the Benefit Board adopted a level unfunded liability amortization period of 15 years. The level amortization period is designed to reduce contribution volatility compared with a continuing decline in the amortization period. The chart below shows the annual employer contribution rate (in both percentage of employee salary and aggregate dollar terms) for the past 10 years. The employer contribution rate for fiscal year 2018-2019 is 12.340%. The contribution rate for 2019-2020 is 12.340%. Factors affecting the reduction in the contribution rate are investment returns, compensation increases were less than expected, and COLA adjustments were less than projected.

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**Historical Metro Contributions  
Metro Active Plan**

<b>Fiscal Year Ending June 30</b>	<b>Contribution Rate</b>	<b>Contribution Amount</b>
2019	12.340%	\$77,242,171
2018	12.340	76,539,373
2017	12.340	73,868,818
2016	15.510	85,676,490
2015	17.987	94,045,896
2014	17.117	87,643,045
2013	15.938	82,653,128
2012	15.416	81,636,995
2011	15.416	81,502,645
2010	13.012	72,253,372
2009	13.012	72,561,790

Key Actuarial Assumptions. Current actuarial assumptions include a discount rate of 7.25%, cost-of-living adjustments (COLA) of 2.50% for Division A and 1.25% for Division B, salary increases averaging 4.0% annually and five year smoothing of gains and losses, and an inflation rate of 2.50%.

*Schedule of Funding Progress*

Effective June 30, 2014, the Metropolitan Government adopted GASB Statement No. 68, which revised the calculation and financial statement disclosure regarding the liability related to pensions. The table below provides a history of funding progress based on the Metropolitan Government's net pension liability.

**Metropolitan Government of Nashville and Davidson County Open Pension Plan  
Schedule Funding Progress  
June 30, 2019  
(dollars expressed in thousands)**

<b>Fiscal Year Ending</b>	<b>Total Pension Liability</b>	<b>Plan Fiduciary Net Position</b>	<b>Net Pension Liability</b>	<b>Plan Fiduciary Net Position as a Percentage of Total Pension Liability</b>	<b>Covered Payroll</b>	<b>Net Pension Liability as a Percentage of Covered Payroll</b>
June 30, 2014	\$2,797,807	\$2,697,364	\$100,443	96.41%	\$556,220	18.06%
June 30, 2015	2,832,405	2,763,496	68,909	97.57%	513,759	13.41%
June 30, 2016	2,909,545	2,688,227	221,318	92.39%	531,267	41.66%
June 30, 2017	3,009,103	2,968,259	40,844	98.64%	538,699	7.58%
June 30, 2018	3,198,180	3,116,572	81,608	97.45%	577,129	14.14%
June 30, 2019	3,377,509	3,254,984	122,525	96.37%	623,435	19.65%

## Benefits

Employees hired on or after July 1, 2014 became members of a new plan that consists of two components, a defined benefit plan and a defined contribution plan. TCRS members in the defined benefit plan are eligible to retire either at the age of 65 and vested with five years of service or under the rule of 90 where a combination of age and service credit totals 90. An actuarial reduced benefit is available at age 60 or the rule of 80. Disability benefits are available after five years of service for those who become disabled and cannot engage in gainful employment. Benefits are determined by a formula using the member's high five-year average salary and years of service. TCRS members in the defined contribution plan elect to participate in the Optional Retirement Program. Members are immediately vested in employer and employee contributions. Members make the determination as to how the employer contributions made on their behalf are invested. Members can choose among a variety of investment products. Benefit provisions are established in state statute found in Title 8, Chapter 34-37 of the Tennessee Code Annotated (TCA). State statutes are amended by the Tennessee General Assembly.

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**Closed Plans – Guaranteed Payment Plan**

The Metro Council created the Guaranteed Payment Plan effective July 1, 2000 to ensure actuarially sound funding for a group of five closed plans supervised by the Metro Benefit Board and the Board of Education. Under the Guaranteed Payment Plan, unfunded liabilities of the aggregate plan are amortized over a period of no more than thirty years beginning with the effective date. Payments for each constituent plan are transferred to a payment account from which distributions are disbursed to the constituent plans as necessary to satisfy current benefit needs and funding objectives of the Guaranteed Payment Plan. Appropriations made by Metro and the Board of Education to fund obligations of the aggregate plan may not be reduced until all plan obligations are fully amortized. Plan improvements adopted subsequent to inception are to be funded over a period ending June 30, 2030.

The five plans included in the Guaranteed Payment Plan are:

- Metropolitan Board of Education Teacher Retirement Plan
- Davidson County Board of Education Retirement Plan
- Nashville City Teachers Retirement Plan
- Former Davidson County Pension System
- Former City of Nashville Pension System

*Current Funded Status*

The table below provides a description of the status of the funding of the Metropolitan Government’s Closed Plans. This information was previously presented on an actuarial basis. As a result of GASB Statement No. 68, this table is now and will in the future be presented on the basis of the plan’s net position and net pension liability.

**Metropolitan Government of Nashville and Davidson County Closed Pension Plans  
Schedule Funding Progress  
June 30, 2019  
(amounts expressed in thousands)**

<b><u>Plan</u></b>	<b><u>Total Pension Liability</u></b>	<b><u>Plan Fiduciary Net Position</u></b>	<b><u>Net Pension Liability</u></b>	<b><u>Plan Fiduciary Net Position as a Percentage of Total Pension Liability</u></b>
Metro Teachers	\$224,478	\$109,009	\$115,469	48.56%
County Teachers	25,491	1,177	24,314	4.62%
City Teachers	12,162	963	11,199	7.91%
City Employees	27,002	-	27,002	0.00%
County Employees	5,338	-	5,338	0.00%

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*Historical Contributions*

**Contributions  
Metro Closed Plans**

<b><u>Fiscal Year Ending June 30</u></b>	<b><u>Metro Contributions</u></b>	<b><u>State Contributions</u></b>
2019	\$33,577,399	\$14,096,974
2018	33,486,419	14,782,460
2017	33,490,352	15,484,346
2016	33,493,456	16,200,749
2015	33,524,016	16,902,423
2014	33,512,358	17,593,670
2013	33,521,052	18,130,962
2012	33,520,844	18,769,087
2011	33,529,553	19,333,186
2010	33,519,574	19,643,816

Additional statistical information for the Closed Plans can be found in the Metropolitan Government's CAFR, a link to which is included in this Official Statement.

**Other Post-Employment Benefits**

The Metropolitan Government currently provides various other post-employment benefits ("OPEB") other than pensions, with healthcare representing the most significant portion of the OPEB cost. For any retiree in the Metro, City or County Plan who elects to participate in the Metro Medical Benefit Plan, the Metropolitan Government contributes 75% of all premium payments, and the retiree contributes 25%. For employees hired July 1, 2013 or later, the Metropolitan Government contribution is based on years of service and ranges from 25% for a retiree with less than 15 years of service to 75% for a retiree with 20 or more years of service. July 1, 2014, Metro implemented a Medicare Part D or Employer Group Waiver Plan for eligible retirees that are expected to reduce OPEB liability. Funding is on a pay-as-you-go basis under which payments are made in amounts sufficient to cover benefits paid, administrative costs and anticipated inflationary increases. The Metropolitan Government also provides a matching contribution on dental insurance for any retiree who elects to participate and provides life insurance at no charge. During the year ended June 30, 2019, contributions totaled \$58,469,575.

For any retiree in the Metro, City or County Education Plans who elects to participate in the medical and dental insurance plans of the Metropolitan Nashville Public Schools; Schools contribute 75% of all premium payments with the retiree contributing the remaining 25%. Funding is on a pay-as-you-go basis under which payments are made in amounts sufficient to cover benefits paid. During the year ended June 30, 2019, contributions totaled \$23,963,636.

The Metropolitan Government adopted GASB Statement No. 75, Accounting and Financial Reporting for Post-Employment Benefits Other Than Pensions, in Fiscal Year 2018. This Statement addresses how governments should account for and report their costs and obligations related to post-employment healthcare and other non-pension benefits; it does not require that the liability be funded. No assets are set aside in a trust to fund the OPEB liability.

For June 30, 2019, amounts related to OPEB were (all amounts in thousands):

	<u><b>Metro Plan</b></u>		<u><b>School Plan</b></u>
Total OPEB Liability	\$	3,478,754	\$ 1,084,070
Covered Payroll		563,034	317,262
Total OPEB Liability as a % of Covered Payroll		617.86%	341.70%

The key assumptions used in developing these amounts include:

- Current level of benefits provided
- June 30, 2019 valuation and measurement date
- Discount rate: 2.79%
- Administrative fees: 5.00% per annum
- Health care cost trend rate: 8% graded to 5% for medical expenses and prescription drugs, 4% each year for dental and vision expenses

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## **Rate Setting Process**

The Charter of the Metropolitan Government provides that the Metropolitan Mayor and the Metropolitan Council have the authority and are directed to establish the rates for water and sewerage services and to provide methods of changes in such rates. Acting in accordance with this authority, the Metropolitan Council adopted Ordinance BL2019-045, which beginning January 1, 2020, implemented a five-year plan of increases for both water and wastewater rates. Both water and sewer rates were restructured in accordance with a cost of services study. In addition to the restructuring, rates were increased equivalent to 26.4% to meet planned capital needs. Water and Sewer Rate increases are 4% for calendar year 2021; and 3% for the calendar years 2022, 2023, and 2024. Beginning in calendar year 2025, annual rate increases based on the Consumer Price Index for All Urban Consumers occur in perpetuity. The Ordinance requires a cost of services study to be completed at least every seven years to review and realign rates.

The Metropolitan Council also adopted Ordinance BL2010-790 on December 7, 2010, imposing a 10% sewer surcharge in lieu of the surcharge which had previously been imposed to secure the payment of the TLDA Loans. Therefore, the sewer surcharge had not been included as part of Revenues, and such funds were not available to pay System operating expenses or System debt service (other than the TLDA Loans). Ordinance BL2019-045 renames the 10% Sewer Surcharge the Sewer Infrastructure Replacement fee and adds a 10% charge on water rates called the Water Infrastructure Replacement Fee. Revenue from the surcharges is available for payment of System operating expenses and debt service. In addition to rate adjustments, Ordinance BL2019-045 increased water capacity fees by 450%, sewer capacity fees by 207%.

Any change in the water and sewerage service rates established under the above ordinances must be adopted by the Metropolitan Council by ordinance. As stated in Section 3.05 of the Charter of the Metropolitan Government of Nashville and Davidson County: "No ordinance shall become effective unless it shall have passed by a majority vote on three (3) different days, on the final passage of which it shall have received a majority vote of all the members to which the council is entitled and until it shall have been signed by the Metropolitan County Mayor or become a law without his signature...."

An ordinance will become law without the signature of the Metropolitan Mayor if the Mayor fails to approve or disapprove the ordinance and does not return it to the Metropolitan Council at or prior to the next regular meeting of the Metropolitan Council occurring ten days or more after the ordinance is delivered to the Mayor. If the Mayor vetoes the ordinance, it will become law if subsequently adopted by a two-thirds vote of all the members of the Metropolitan Council to which it is entitled.

Under the Charter of the Metropolitan Government, the Mayor is obligated to submit an operating budget to the Metropolitan Council no later than May 1<sup>st</sup> of each year. Before the beginning of each Fiscal Year, and in no event later than June 30<sup>th</sup>, the Metropolitan Council is obligated to adopt a budget, which must provide for all expenditures required by law or the Charter and for the payment of all debt service requirements for the ensuing year and a tax rate to fully fund the budget. If the Metropolitan Council fails to adopt a budget, the budget submitted by the Mayor becomes law and the Metropolitan Council must adopt a tax rate to fund that budget.

Monthly service charges for water and sewerage services are generally based, in each case, upon a rate schedule consisting of a minimum charge and a quantity charge. The minimum charges vary according to meter size and account class, i.e. residential, nonresidential/commercial. The quantity charge is dependent on account class.

Water revenues from the Department's customers include a fixed minimum charge per customer connection and a quantity charge per 100 cubic feet (cf) based upon the meter size and number of connections, and a 10% Water Infrastructure Replacement fee. The quantity charge is applied to all consumption in excess of 200 cf per month. The rates listed below were in effect as of January 1, 2020.

### **WATER AND SEWERAGE RATE SCHEDULE BY CUSTOMER CLASS**

Monthly rates for water sold are based on meter measurement. Monthly sewerage service charges for the use of the public sanitary sewerage system are set by water consumption as determined by meter measurement. Minimum charges per month are based on size of meter and customer class.



## CLASS DETERMINATION

<u>CLASS</u> Residential Non-residential	<u>ANTICIPATED OR HISTORICAL USAGE</u> Up to two housing units on a common meter All others
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## WATER AND SEWER CHARGES AND RATES

Minimum Charges per Month (Including 200 Cubic Feet Usage)

On January 1, 2020, the following rates went into effect as a result of the passage of Ordinance BL2019-045:

Water and Sewer Rates by Meter Size			Volumetric Rates		
Meter Size	Water	Sewer	Residential Volumetric Rate	Water	Sewer
5/8-inch	\$5.09	\$8.14	0-2 CCF	\$0	\$0
3/4-inch	\$12.12	\$36.00	3-6 CCF	\$3.50	\$5.85
1-inch	\$15.28	\$46.58	7-10 CCF	\$4.20	\$5.85
1.5-inch	\$26.85	\$90.67	11+ CCF	\$5.25	\$5.85
2-inch	\$37.91	\$127.38	Commercial Water and Sewer Rates by Volume		
3-inch	\$60.58	\$158.59	Commercial Volumetric Rate	Water	Sewer
4-inch	\$137.72	\$449.98	All usage	\$2.75	\$5.85
6-inch	\$171.93	\$536.44			
8 and 10-inch	\$223.72	\$686.89	<b>10% Water and Sewer Infrastructure Replacement Fee</b>		

## Billing and Collection Procedures

With certain limited exceptions, the Department is required to charge for all water and sewerage services provided by it and consumed by, or, in the case of sewerage services, made available to each customer. Charges for water and sewerage services are generally based on metered measurement of water consumption. The Department reads meters and renders bills to customers monthly. The charges for water and sewerage services are included in a single, combined bill in terms of a “net billing,” which is the charge calculated at established rates, and a “gross billing,” which is the current net billing increased by 5% or by \$2.50, whichever is greater. This addition to the net billing is a form of penalty for the customer’s failure to promptly pay the monthly bill for services. The gross billing amount becomes applicable 20 days after the billing is mailed to the customer. If a customer fails to pay a bill, a delinquency notice is included in the subsequent month’s bill. If the customer fails to pay the bill for a second time, the customer is notified of potential disconnect by letter and/or phone call advising that service will be discontinued if payment is not received in five days. If the customer does not pay the delinquent account within five days following the visit, the account is subject to immediate discontinuation of water and sewer service. To have service restored the customer must then pay the total delinquent amount plus a reconnection fee. If the Department is unable to collect the amount owed, the account is then turned over to a commercial collection agency.

The foregoing billing and collection procedures have resulted in the collection of approximately 99.56% of all amounts billed during the past five Fiscal Years.

The Department has approximately 200,000 meters across Davidson County, Tennessee. Of those, nearly 75,000 are AMI (“Advanced Meter Infrastructure”), meaning readings and other vital data can be sent and received remotely through the cellular network. Beginning in 2018, the Department plans to replace about 12,000 meters with this technology annually until the entire system is upgraded. Currently, the AMI system uses nine antennae to receive data; this system will be expanded as the network needs grow. Customer service has experienced a less than 1% failure rate with data reception from AMI meters.

## Wholesale Customers

The Department provides sewage treatment services for the Cities of Brentwood, Goodlettsville, Millersville, Belle Meade, Lavergne, Ridgetop, Mount Juliet, Hendersonville Utility District, and White House Utility District (the “Wholesale Sewer Customers”), pursuant to contracts between the Department and each of the Wholesale Sewer Customers. Revenues from Wholesale Sewer Customers represented 6.2% (\$14.1M) of revenue received in Fiscal

Year 2019. Wholesale contracts have been updated to include annual escalation based on the consumer price index. Under the wholesale contracts, the Department is obligated to treat sewage (subject to volume limitations) from the Wholesale Sewer Customers, and the Wholesale Sewer Customers are required to pay a volumetric rate for sewage delivered to the Department. Capital costs incurred by the Department to maintain capacity for the Wholesale Sewer Customers are recoverable under the contracts. None of the Wholesale Sewer Customers has ready access to other sewage treatment facilities. A cost of services study was conducted in Fiscal Year 2018 and rates were increased in October 2019 by 6% accordingly.

Wholesale Sewer Customer flows were approximately 12.67% of total treated flows for Fiscal Year 2019.

The following represents a summary of the effective dates and terms of the wholesale contracts:

<b>CUSTOMER</b>	<b>EFFECTIVE DATE</b>	<b>AMENDMENT DATE</b>	<b>TERM OF CONTRACT</b>
City of Belle Meade	October 1, 2014	NA	10 years
City of LaVergne	December 1, 2009	October 1, 2014	10 years
City of Millersville	February 16, 2010	October 1, 2014	10 years
City of Brentwood	November 19, 2009	October 1, 2014	10 years
City of Goodlettsville	September 27, 2010	October 1, 2014	10 years
Hendersonville Utility District	October 20, 2011	May 6, 2015	20 years
City of Ridgetop	May 6, 2015	NA	9 years
City of Mount Juliet	June 22, 1999	NA	30 years
White House Utility District	May 6, 2015	NA	9 Years

### **Operations and Maintenance**

The Department has implemented operation and maintenance procedures with respect to the System and has undertaken several programs to upgrade performance, including a water quality testing program. Water quality within the water treatment facilities is tested on site on an hourly basis. Additional testing is conducted at a central laboratory maintained by the Department and certified by the State of Tennessee. Water discharged from the plants into the distribution system is monitored in accordance with the Federal Safe Drinking Water Act (42 U.S.C. 300f et seq.). Water discharged from the three wastewater treatment plants is tested to ensure compliance with the National Pollutant Discharge Elimination System as administered by the EPA and TDEC.

The Department takes every precaution to ensure that the water delivered to each customer is of the highest quality possible and meets all Federal and State drinking water standards. Drinking water does not contain lead when it leaves the treatment plants but tap water can accumulate trace amounts of lead through the corrosion of plumbing materials containing lead. The Department has had an intense corrosion control program since 1992 to prevent the possibility of lead leaching into the water. Following EPA and State guidelines, the Department regularly monitors drinking water in the distribution system for lead to determine the effectiveness of our corrosion control program. The Department replaces its portion of lead service lines prior to public works paving projects, during water main replacement projects, and when a lead service line is leaking and repair would be required.

The Department performs regular maintenance and repair of equipment with outside contractors performing major repairs. To facilitate maintenance and repairs, the Department has established several inspection programs for the different areas of operation. Inspection programs include pumping station inspection, cross-connection protection testing, smoke testing for collection system integrity, water leak detection, fire hydrant testing and valve testing

programs. Vans are equipped with closed circuit television cameras that can be maneuvered through the sewer mains to inspect the sewer system.

Comprehensive training programs have been developed for employees, from unskilled to supervisory and management positions, covering many aspects of the operation and maintenance of the Systems. Although participation in the programs is not mandatory, employees who wish to be promoted to a higher job classification must demonstrate that they have the knowledge and skills that such programs provide.

### **Environmental Regulation**

The Federal Water Pollution Control Act of 1972 (“FWPCA”), as amended by the Clean Water Act of 1977, and the Water Quality Act of 1987 (collectively, the “CWA”), provides for the restoration and maintenance of the chemical, physical and biological integrity of the nation’s waters. To achieve that end, the FWPCA established the National Pollution Discharge Elimination System (“NPDES”), a permit system administered by the US Environmental Protection Agency (“EPA”) in conjunction with the states. The EPA has delegated the NPDES program for Tennessee to the Tennessee Department of Environment and Conservation (“TDEC”). The Tennessee General Assembly enacted the Tennessee Water Quality Control Act of 1977 to obtain the primary objectives of the CWA and to qualify for full participation in the NPDES program established under Section 402 of the FWPCA. Pursuant to the authority granted to it, the Tennessee Water Quality Control Board has enacted regulations consistent with the CWA.

In 1990, TDEC issued Order 88-3364 (the “1990 Order”) as a result of violations by the Metropolitan government of the Tennessee CWA from January 1987 through June 1989. The 1990 Order was, among other things, a result of the discharge of improperly treated wastewater into the waterways by the Metropolitan Government’s collection system and various wastewater treatment plants, leading to pollution in violation of the CWA. The 1990 Order also stated that the Metropolitan Government’s failure to comply with certain agreed upon orders entered by the Tennessee Water Quality Control Board in 1985 and 1987 was also a basis for the 1990 Order.

The 1990 Order identified specific problems regarding the Metropolitan Government’s collection system and wastewater treatment, and required the Metropolitan Government to correct them. In response, the Department developed a detailed program, referred to as the “Overflow Abatement Program” (“OAP”), for making system improvements to correct the problems identified in the 1990 Order. This program was approved by the TDEC. Although the Department substantially complied with the 1990 Order, it was not in full compliance with the CWA as of 1999.

On September 17, 1999, the TDEC issued Order 99-0390 (the “1999 Order”) replacing the 1990 Order and citing the Metropolitan Government in violation of state law. Effective July 1, 2001, the Metropolitan Government was to immediately not permit or allow any overflows of bypasses from its combined sewer system (wastewater and storm water) during dry weather to any waters of the State, nor was it to allow any discharge from the sanitary sewerage system to any tributary of the Cumberland River. The current flow limits that the tie-in points from all contributing satellite sewage systems were to be maintained.

The Metropolitan Government has substantially addressed the issues raised in the 1999 Order and continues to make capital improvements to its Sewer System in response thereto. TDEC has not assessed monetary penalties against the Metropolitan Government for failing to meet a schedule compliance date, and the Metropolitan Government is currently in compliance with the requirement of the 1999 Order.

### **EPA Consent Decree**

In December 2005, the Department received an inquiry from the U.S. Environmental Protection Agency’s Region IV (USEPA) headquarters. This inquiry requested certain documents and records pertaining to the Department’s Operations, Capital Plan, and Stormwater Management. The Department’s response was submitted in January 2006. The Department, the State of Tennessee Department of Environment and Conservation (TDEC), and USEPA agreed on a recommended consent decree to address and correct deficiencies within the Department’s sewer system that have caused violations of the Clean Water Act (CWA). The consent decree originally required that MWS fully develop, by March 12, 2011, a Corrective Action Plan/Engineering Report (CAP/ER) for its sanitary sewer system and a Long Term Control Plan (LTCP) for its combined sewer system to achieve the goals of the CWA. Upon

submittal and approval of the plans, MWS was originally obligated to complete the work as developed by the plans in nine years.

On May 14, 2010, The Metropolitan Government petitioned the USEPA and TDEC for a 6 month time extension for the delivery of both plans and the two years for the final compliance with the Consent Decree based on the flood of May 2010. The USEPA and TDEC granted the requested time extension to the Department. Both the CAP/ER and LTCP were submitted on time based on the time extension to EPA and TDEC on September of 2011. On August 10, 2017, the EPA approved the CAP/ER and the timeline (11 years) to complete the work has now officially commenced. All three parties have had discussions of potential changes with respect to the LTCP but little would be considered drastic or material to what was submitted. The LTCP has not yet been officially approved. The deadline for final compliance of the Consent Decree is eleven years after final formal approval of the two plans.

Among other requirements, the Consent Decree will require capital expenditures to the System in a total amount between \$1.0 billion and \$1.5 billion. See “The Water and Sewer Capital Improvement Plan,” which follows. Failure to comply with the Consent Decree and meet future established deadlines could result in penalties up to \$3,000 per incident, and up to \$5,000 per day for failure to implement work in a timely manner. The Department has spent just over \$340 million dollars on program projects through December of 2019.

The Department has thus far been successful in meeting all the deadlines established by the Consent Decree, and is currently in compliance with the Decree in all respects.

### **Payments in Lieu of Taxes, the Local Cost Allocation Plan, and Shared Government Services**

Tennessee law, Tennessee Code Annotated 7-34-115(a)(9), provides that a municipality may require a municipally owned utility to make payments in lieu of ad valorem property taxes, for which the utility is exempt as a governmental entity, in an amount not to exceed the taxes payable on privately owned property of a similar nature. This payment is intended to help reimburse the municipality for the municipal services and support provided to the public works. In 1996, the Metropolitan Council adopted Substitute Resolution Number R96-177, which requires the Department to make an annual payment to the Metropolitan Government of \$4,000,000. In 2020 the Metropolitan Council adopted Resolution Number R20-154, which requires the Department to make an annual payment to the Metropolitan Government of \$10,000,000. This total \$14,000,000 represents a payment in lieu of ad valorem taxes. This payment, made in monthly installments, is made after payments of debt service on the Metropolitan Government’s water revenue bonds.

The Local Cost Allocation Plan (LOCAP) for the Metropolitan Government is a method by which central service costs are distributed across the Metro departments. In Fiscal Years 2018 and 2019, the Department was charged \$5,452,900 and \$5,802,000 respectively. In Fiscal Year 2020 this plan will cost the Department \$6,292,700. The Metropolitan Government charges the Department for additional Shared Government Services such as Fleet Management, Information Systems, Legal Fees, Insurance, and Property Services. These charges totaled \$5,990,600 million in Fiscal Year 2019, and in Fiscal Year 2020 Shared Government Services charges will be approximately the same.

Payments in Lieu of Taxes, the Local Cost Allocation Plan payments, as well as all Shared Services charges have been included in the historical and forecasted Expenses of the Department in the Forecast Statement.

## **The Water and Sewer System Capital Improvement Plan**

### The Water System

The Metropolitan Government’s Water System dates back to the late 1800’s. Over sixty five percent of the water system is at least forty years old. More than 150 miles of water main are over 80 years old. The Water Infrastructure Rehabilitation (WIR) program provides for the rehabilitation and/or replacement of old water distribution infrastructure. The 12<sup>th</sup> Ave South project is a phased construction project that will replace 52,720 linear feet of water mains at a cost of \$23 million. The Castleman Drive water main replacement project will replace 8,400 feet of unlined, cast iron pipe with new 8 and 12 inch main at a cost of \$3.2 million. Other WIR projects, similar in

scope and size, including phased projects in the Sylvan Park and East Nashville areas, will account for \$100 million over the next six years.

The Metropolitan Government's Master Water Improvement Plan, which sets out projected water needs based on population forecasting and hydraulic modeling, was updated in 2016. To prepare for anticipated growth across the service area, the master plan has identified several projects, totaling over \$65 million in the next six years to provide both capacity and redundancy in the overall system. In 2019, the department completed the Cumberland City Low project, installing 24,000 feet of 36 inch to 60 inch water mains, at a cost of \$32.9 million, to support distribution of water in the event that one of the water treatment plants comes off line. Future identified projects include installation of 11,000 linear feet of 24 inch water main along Central Pike; installation of a redundant 24 inch water main for the Airport Pressure zone; and installation of redundant 60-inch water main from the Omohundro Water Treatment Plant.

Improvements at the water plants are also critical to meeting the needs of the service area. The Department recently completed a yearlong pilot study to identify the best technologies for both current and potential future regulations based on the Cumberland River source water. A new raw water intake and additional clearwell capacity at the Omohundro Water Treatment Plant have been identified as needed improvements. Additional processes for improved water quality have also been identified that will position the Department to best meet current and future regulations for the growing service area. Work at both the Omohundro and KR Harrington Water Plants is anticipated to cost \$300 million over the next six years.

### **Capital Plan- The Sewer System**

In September of 2011, the CAP/ER and the LTCP studies were submitted to EPA and TDEC. A schedule was developed to pursue those projects to meet the compliance date of the Consent Decree, which is eleven years following the approval of the plan. While waiting for approval of these plans, Water Services continued to implement projects related to the CAP/ER taking advantage of the additional time for completion. EPA recently approved the CAP/ER, setting a deadline for compliance of April 2028. The LTCP has not been approved.

Sewer System Rehabilitation continues for the elimination of inflow and infiltration from the separated sanitary sewer system. Projects identified in the CAP/ER recently completed include Shelby Park – Virginia Ave at \$4.8 million; Shelby Park – Brush Hill Road, \$3.3 million; Neely's Bend Rehabilitation, \$2.5 million; Smith Springs – Priest Lake Meadows, \$4 million; Davidson and Brook Hollow, \$1.1 million; 28th Ave – Clifton Avenue, \$3.8 million; Cowan Riverside – West Trinity, \$4 million; Smith Springs Area 2, \$4.7 million; Cowan Area 4/5, \$6.0 million; Shelby Area 5, \$5.0 million; Loves Branch Rehab, \$4.5 million; and Hidden Acres Rehab, \$1.3 million. Design has been completed on Smith Springs Area 3 Rehab, Shelby Park Area 6 – Trunk Line Rehab, Seven Mile Creek Rehab, Shepherd Hills Rehab, and Dry Creek Rehab. These projects are awaiting bidding.

Equalization (EQ) Projects are included in the CAP/ER to temporarily store excess flow during heavy rainfall events, before returning the stored flow to the collection system for treatment. Construction has been completed on the West Park EQ project, \$15 million, and the Ewing Creek EQ project, \$9.4 million. Design has been completed for the Davidson Branch Pump Station and EQ, and for the Gibson Creek EQ projects. These projects are awaiting bidding. Solicitation for design services and for construction manager-at-risk (CMAR) services has been initiated for the Mill Creek Trunk and EQ project and is estimated to cost \$300 million making it the second largest project under the Consent Decree Program.

The largest project under the Consent Decree Program is the Central Wastewater Treatment Capacity Improvements and CSO Reduction project which will both reduce CSOs and make necessary process improvements. At an estimated cost of \$400 million, this construction project includes increasing capacity for the Central Pumping Station, adding additional treatment capacity for peak flows by 40 percent, upgrading the aeration system, and replacing chlorine disinfection with ultraviolet light. Design has been completed, and under a CMAR delivery method, and bidding for construction is underway.

The following table depicts the proposed spending for capital improvements by the Department during the Fiscal Years ending June 30, 2017 through 2023. Capital projects in the forecast period will be funded from the revenues of the Department, proceeds from Commercial Paper, issuance of new revenue bonds, or a combination of these. The plan as shown assumes additional funding will be available from an increase in water and sewer rates, thus increasing the amount of operating revenues available to the Department and/or issuance of new revenue bonds, with the resultant change to debt service requirements.

## Water and Sewer Capital Improvement Plan

	2021	2022	2023	2024	2025	TOTAL
<b>Consent Decree Program</b>						
Program Management and Water Quality	11,900,000	16,200,000	17,100,000	18,600,000	14,800,000	\$78,600,000
Combined Sewer Improvements	162,000,000	53,500,000	62,000,000	30,000,000	16,000,000	\$323,500,000
Sanitary Sewer Rehabilitation	41,000,000	60,000,000	100,000,000	100,000,000	100,000,000	\$401,000,000
<b>Total Consent Decree Program</b>	<b>\$214,900,000</b>	<b>\$129,700,000</b>	<b>\$179,100,000</b>	<b>\$148,600,000</b>	<b>\$130,800,000</b>	<b>\$803,100,000</b>
<b>Other</b>						
Water Distribution System Improvements	26,050,000	47,480,000	48,700,000	49,925,000	50,350,000	\$222,505,000
Water Pump Station Improvements	2,175,000	1,375,000	1,310,000	1,435,000	1,670,000	\$7,965,000
Water Plant Improvements	23,250,000	42,060,000	86,600,000	80,500,000	102,000,000	\$334,410,000
Water Reservoir Improvements	2,700,000	16,550,000	2,600,000	8,450,000	2,950,000	\$33,250,000
Development Assistance	11,830,000	12,270,000	12,280,000	12,875,000	13,030,000	\$62,285,000
Customer Services/ Information Services	6,675,000	20,825,000	5,325,000	7,125,000	5,920,000	\$45,870,000
Vehicles and Equipment	3,715,000	4,500,000	4,000,000	3,500,000	3,500,000	\$19,215,000
Wastewater Collection System Improvements	500,000	1,500,000	4,000,000	0	0	\$6,000,000
Wastewater Plant Improvements	55,865,000	47,695,000	28,035,000	20,545,000	20,760,000	\$172,900,000
Wastewater Pump Station Improvements	1,720,000	2,050,000	1,950,000	2,025,000	2,150,000	\$9,895,000
Other	4,115,000	4,875,000	8,900,000	10,720,000	3,570,000	\$32,180,000
<b>Total Other Capital Projects</b>	<b>\$138,595,000</b>	<b>\$201,180,000</b>	<b>\$203,700,000</b>	<b>\$197,100,000</b>	<b>\$205,900,000</b>	<b>\$946,475,000</b>
<b>TOTAL</b>	<b>\$353,495,000</b>	<b>\$330,880,000</b>	<b>\$382,800,000</b>	<b>\$345,700,000</b>	<b>\$336,700,000</b>	<b>\$1,749,575,000</b>
<b>Sources of Funds</b>						
Extension and Replacement Fund	87,000,000	82,280,000	82,000,000	82,000,000	82,000,000	415,280,000
WIR & SIR Funded	25,400,000	26,600,000	27,500,000	28,700,000	29,400,000	137,600,000
Commercial Paper Program	226,200,000	207,000,000	220,000,000	220,000,000	210,000,000	1,083,200,000
Water Impact Fees	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	25,000,000
Sewer Impact Fees	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	50,000,000
<b>TOTAL</b>	<b>\$353,600,000</b>	<b>\$330,880,000</b>	<b>\$344,500,000</b>	<b>\$345,700,000</b>	<b>\$336,400,000</b>	<b>\$1,711,080,000</b>

**APPENDIX D**

**DEMOGRAPHIC INFORMATION REGARDING THE METROPOLITAN GOVERNMENT**

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**Introduction**

The Metropolitan Government of Nashville and Davidson County (“The Metropolitan Government”), as created in 1963, is in the north central part of Tennessee and covers 533 square miles. Nashville is the capital of the State of Tennessee and is situated in the Nashville Basin, between the Tennessee River on the west and the Eastern Highland Rim on the east.

**Fiscal Year**

The Metropolitan Government operates on a fiscal year, which commences July 1 and ends June 30.

**Population Growth**

The following table sets forth information concerning population growth in the Metropolitan Government. A comparison with the Nashville Metropolitan Statistical Area (“MSA”), the State and the United States serves to illustrate relative growth.

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY  
DEMOGRAPHIC STATISTICS - POPULATION GROWTH**

<u>Area</u>	<u>2000</u>	<u>2010</u>	<u>Change 2000 - 2010</u>	<u>2018 Estimates</u>
Nashville/Davidson	569,891	601,222	10.0%	669,053
MSA	1,311,789	1,670,900	27.4%	1,903,961
State	5,689,283	6,346,105	11.5%	6,770,010
United States	281,421,906	308,745,538	9.7%	327,167,434

Source - Census Bureau  
(census.gov)

Growth within the MSA has occurred to the greatest extent in surrounding communities, which, although suburbs of Nashville, are in themselves residential, manufacturing and agricultural communities.

**Per Capita Personal Income**

<u>Area</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Davidson, TN	45,459	47,041	48,989	50,328	49,699	53,525	55,966	59,135	62,876	66,060
MSA	39,949	41,763	43,992	46,461	46,620	49,208	51,805	53,704	55,382	57,953
Tennessee	32,950	35,646	37,613	39,313	39,417	40,791	42,582	43,711	44,945	46,894
United States	38,144	40,541	42,728	44,590	44,841	47,047	48,969	49,867	51,877	54,440

Source - Bureau of Economic Analysis (bea.gov)

## Economy of the Metropolitan Area

Nashville has a diverse economy, having considerable involvement in commerce and industry, education and government. Agriculture is also a major factor in the economy of the surrounding counties. Insurance, finance, publishing, banking, health care, music, tourism, manufacturing and distribution are all mainstays of the economy. Lack of dependency on one industry has helped to insulate Nashville from the impact of product business cycles. Businesses have been attracted to Nashville because of its location, work force, services and taxes. The central location of Nashville, approximately halfway between Houston and New York, has contributed to its emergence as an important wholesale and retail center.

## Employment

The following table shows the labor force segments of the eight-county Nashville Metropolitan Statistical Area for calendar years 2014 through 2018.

<b>NASHVILLE MSA EMPLOYMENT BY INDUSTRY <sup>(1)</sup></b>					
	<b><u>2018</u></b>	<b><u>2017</u></b>	<b><u>2016</u></b>	<b><u>2015</u></b>	<b><u>2014</u></b>
Total Employed All Industries <sup>1</sup>	1,012	980	950	915	880
<i>In Percentages:</i>					
Education & Health Services	15.09%	15.22%	15.33%	15.39%	15.44%
Financial Activities	6.74%	6.74%	6.61%	6.52%	6.43%
Government	11.73%	11.91%	12.09%	12.40%	12.72%
Information	2.31%	2.39%	2.40%	2.36%	2.34%
Leisure & Hospitality	11.50%	11.30%	11.11%	10.98%	10.87%
Manufacturing	8.31%	8.62%	8.67%	8.66%	8.85%
Professional & Business Services	16.40%	16.34%	16.35%	16.06%	15.52%
Trade, Transportation, Utilities	19.19%	19.10%	19.11%	19.25%	19.61%
Other	8.73%	8.38%	8.32%	8.38%	8.22%

<sup>(1)</sup> Employment numbers in thousands.

Source—Bureau of Labor Statistics (bls.gov)

**THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY**  
**PRINCIPAL EMPLOYERS**  
**CURRENT YEAR AND NINE YEARS AGO**  
 Unaudited - See Accompanying Accountants' Report

Employer	June 30, 2019			June 30, 2010		
	Employees	Rank	% of Total Employment	Employees	Rank	% of Total Employment
Vanderbilt University <sup>(2)</sup>	34,370	1	3.45%	20,968	1	2.86%
State of Tennessee	26,795	2	2.69	20,000	2	2.73
Metro Nashville-Davidson Co. Government and Public Schools	19,700	3	1.98	20,162	3	2.75
U.S. Government	13,253	4	1.33	11,496	4	1.57
Nissan North America Inc.	12,000	5	1.20	5,850	6	0.80
HCA Healthcare Inc	10,600	6	1.06	5,447	7	0.74
St. Thomas Health	8,335	7	0.84	6,500	5	0.89
Randstad	4,550	8	0.46	-	-	- (1)
Asurion	4,170	9	0.42	-	-	- (1)
Community Health Systems Inc.	3,878	10	0.39	-	-	- (1)
Wal-Mart Stores Inc.	-	-	- (1)	4,500	8	0.61
CBRL Group Inc.	-	-	- (1)	4,189	9	0.57
Dell	-	-	- (1)	3,200	10	0.44
	<u>137,651</u>		<u>13.80%</u>	<u>102,312</u>		<u>13.96%</u>

Sources:

Principal Employers and Number of Employees – Nashville Area Chamber of Commerce, Nashville Business Journal  
 Total Employment – TN Department of Labor & Workforce Development

Note: The schedule reflects employers and number of employees within the Metropolitan Statistical Area.

- (1) Values for employers that are outside the top ten ranking are excluded
- (2) The variance in employees for Vanderbilt University is due to the consolidation of the university, medical center and other entities

## Unemployment Rates

The following table sets forth the unemployment percentage rates in the Metropolitan Government, the MSA, the State and the United States for the calendar years 2009-2018.

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Nashville/Davidson	8.9%	8.2%	7.5%	6.2%	5.9%	5.0%	4.4%	3.6%	2.8%	2.6%
MSA	9.5	8.6	7.8	6.4	6.2	5.2	4.5	3.7	2.9	2.7
State of Tennessee	10.5	9.7	9.0	7.8	7.8	6.5	5.6	4.7	3.8	3.5
United States	9.3	9.6	8.9	8.1	7.4	6.2	5.3	4.9	4.4	3.9

Source: Bureau of Labor Statistics (bls.gov)

## Private-Sector Investment and Job Creation

### Whole Region Numbers:

Since July 1, 2019, the Nashville Area Chamber of Commerce announced 34 business relocations or expansions into the Nashville MSA, bringing 1,039 new jobs to the region.

### Davidson County Numbers:

Business Investment and Job Creation:

Since July 1, 2019, the Nashville Area Chamber of Commerce announced 21 business relocations or expansions into Davidson County, collectively bringing 393 new jobs into Metro Davidson County. Continued expansion has occurred in recent years in corporate and regional headquarters, the technology industry, manufacturing, health care management and many areas where the local economy has established strength and growth potential.

Over the past several years, many sizable headquarters, shared service operations, and manufacturing operations have relocated and/or expanded in Nashville. So far in the 2019-2020 Fiscal Year, iHeartmedia announced it will be establishing its second digital headquarters in Nashville. Allegiant announced in October 2019 that it will establish a base of operations at Nashville International Airport (BNA). The Las Vegas-based company will house two Airbus aircraft at BNA, which will become the airline's 19<sup>th</sup> aircraft base. Global Shares, a fast-growing Irish financial services technology software company, announced an opening of a Nashville office, set to yield more than 50 new jobs in 2020 and 200 jobs by 2022. Health care services company, Briye, is relocating its headquarters from Jackson, Mississippi to Nashville. The company plans to slowly transition the majority of its 20 employees to Nashville.

Other successes in Davidson County include Asurion moving nearly 100 product development jobs to Nashville from its San Mateo, California office. Citizens Bank is also expanding in Nashville, looking to divide 200 software engineers between Boston, Charlotte, Nashville, and Providence. Moreover, Chicago-based Shore Capital Partners' decided to open an investment office focused on health care in Nashville. The company hopes to invest in as many as six Nashville-area companies over the next 3-4 years.

## **Manufacturing**

As of December 2018, an average of 84,100 persons were employed in the manufacturing industries in the MSA, engaging in a wide range of activities and producing a variety of products, including food, tobacco, textiles and furnishings, lumber and paper, printing and publishing, chemical and plastics, leather, concrete, glass, stone, primary metals, machinery and electronics, motor vehicle equipment, measuring and controlling devices, and consumer products.

Nashville MSA's largest manufacturing employers include Nissan North America, Bridgestone Americas, Electrolux Home Products, A.O. Smith Water Products and Vought Aircraft Industries.

## **Trade**

Nashville is the major wholesale and retail trade center for the MSA and some 50 counties in the central region of the State, southern Kentucky and northern Alabama, a retail trade area of more than 2.3 million people with consumer spending by Nashville MSA residents exceeding \$32.0 billion. Nashville is one of the top 50 retail markets in the country. In the Nashville region there are 245 shopping centers with 37.3 million square feet of gross leasable area. Nine of these centers are super-regional and 15 are regional.

## **Agriculture**

Nashville is surrounded by agricultural-based economies. The area encompassing middle Tennessee produces livestock, dairy products, soybeans, small grain, feed lot cattle, strawberries, hay and tobacco. Additionally, the area surrounding Nashville is the home of the Tennessee Walking Horse.

## **Transportation**

Nashville serves as a conduit or trans-shipment point for much of the traffic between the northeast and southeast United States. Three interstate highways extending in six directions intersect in Nashville in addition to nine Federal highways and four State highways. Barge service on the Cumberland River, together with good rail and air services, give Nashville an excellent four-way transportation network.

The Cumberland River, connecting Nashville and the surrounding area to the Gulf of Mexico and intermediate points on the Ohio and Mississippi Rivers, is used by 51 commercial operators, 18 of which serve Nashville. With the completion of the Tennessee-Tombigbee Waterway in 1985, Cumberland River freight is able to reach the Port of Mobile, thereby eliminating approximately 600 miles of the distance from Nashville to the open sea and contributing to the development of foreign trade in Nashville. In addition, the Federal Government in 1982 approved Nashville as a Foreign Trade Zone, a secured area supervised by the United States Customs Service, which provides for the storing of foreign merchandise without duty payments.

The CSX System, a major national railroad, serves Nashville. In addition, five major rail lines link Nashville to all major markets in the nation. Rail carriers interchange freight and cooperate in providing and extending transit privileges covering both dry and cold storage and the processing or conversion of materials.

A commuter rail service from Lebanon, Tennessee to Nashville, approximately 32 miles, known as the Music City Star, commenced transportation services in the September of 2006. It is operated under the direction of the Regional Transportation Authority, a multi-county agency. The ticket price includes Metropolitan Transportation Authority ("MTA") bus service on circulator routes in the downtown area.

In 1973, the Metropolitan Government acquired the net assets of the Nashville Transit Company and the Metropolitan Transit Authority was established. MTA provides a comprehensive public transportation system covering the entire metropolitan area. In addition to regularly scheduled bus routes, MTA provides special transportation services for the handicapped and operates bus service in the downtown area for shoppers, tourists and downtown workers. The revenues derived from the transit system are not sufficient to pay the expenses incurred in the operation of the system. The Metropolitan Government and the State of Tennessee contributed in the fiscal year ending June 30, 2019 approximately \$48.636 million and \$4.904 million, respectively, to pay approximately 63.5% of the Authority's operating expenses. The State directs revenues from a two cent per gallon gasoline tax, which it imposes on local governments that may be applied to mass transit. The contribution of the Metropolitan Government was paid from its general revenues.

The Metropolitan Nashville Airport Authority (the “Airport Authority”) owns Nashville International and John C. Tune airports. Funding for the Airport Authority’s capital and operating expenses is provided exclusively from Airport Authority revenues. Nashville International Airport (BNA) (the “Airport”) is situated approximately eight miles from downtown Nashville. It served over 18.2 million passengers last year on 14 airlines with 540 total daily flights to 75 nonstop destinations.

The Airport Authority also operates the John C. Tune Airport in the Cockrill Bend Industrial area west of Nashville. It serves the needs of regional corporate and private aircraft and allows Nashville International’s air carrier traffic to flow with fewer constraints. Tune Airport also provides a pilot training environment and modern facilities for the transient and corporate operator.

### **Construction**

Construction in Nashville is illustrated by the following table describing the number and value of building permits issued by the Department of Codes Administration of the Metropolitan Government. Construction has grown through most of the 2000’s.

Several high-profile corporate relocations, the completion of new office buildings, and robust leasing activity all contributed to an active market in 2019. Nashville closed 2019 with a positive net absorption totaling 900,000 square feet, with the Central Business District (CBD) submarket accounting for most of the market activity. In the largest lease of the year, Amazon signed 500,000 square feet in the Nashville Yards development. Over 3.8 million square feet of office space is under construction and set to deliver over the next 3 years (70% in CBD). Year to date office sales volume reached a new record for the city, totaling \$1.1 billion (up 20% from last year). Furthermore, Nashville is ranked No.3 in the nation for overall real estate prospects in 2020 (source: Urban Land Institutes and PwC’s Emerging Trends in Real Estate Report). This marks the 5<sup>th</sup> year Nashville has been in the top 10. In 2019, 5.4 million square feet of industrial space was delivered to the Nashville market, and 30 plus tower cranes continue to line Nashville’s skyline.

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**NUMBER AND VALUE OF BUILDING PERMITS IN  
THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY  
NUMBER AND VALUE OF BUILDING PERMITS IN  
THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY**

Calendar Year	Residential		Non-Residential		Repairs, Alterations and		Other <sup>(1)</sup>		Total	
	Construction		Construction		Installations				Permit	
	Number of Permits	Value	Number of Permits	Value	Number of Permits	Value	Number of Permits	Value	Number of Permits	Value
2010	2,067	294,470,986	528	647,479,914	6,722	424,461,986	1,663	15,189,625	10,980	1,381,602,481
2011	2,166	372,440,931	444	382,483,854	3,163	377,053,306	1,840	18,738,180	7,613	1,150,716,271
2012	2,656	526,206,509	735	621,590,087	4,850	431,579,639	2,047	34,340,897	10,288	1,613,717,132
2013	3,406	737,396,336	762	493,330,146	3,405	455,745,450	2,135	23,344,644	9,708	1,709,816,576
2014	4,579	1,163,334,572	696	692,801,880	3,244	397,757,642	2,522	23,934,719	11,041	2,277,828,813
2015	5,774	1,428,091,853	762	937,747,113	2,988	441,598,956	2,862	38,771,613	12,386	2,846,209,535
2016	5,858	1,751,681,098	1,136	1,607,184,808	2,737	562,151,606	2,694	21,911,674	12,425	3,942,929,186
2017	5,537	1,084,398,438	1,196	1,996,276,985	2,342	572,053,980	2,642	24,394,733	11,717	3,677,124,136
2018	5,336	989,334,771	866	1,931,789,059	2,458	639,160,352	2,771	39,140,876	11,447	3,599,424,999
2019	5,195	968,600,069	1,056	2,598,254,537	2,374	607,178,804	2,388	26,243,063	11,429	4,212,060,640

<sup>(1)</sup> Includes moved residential buildings, house trailers, and the demolition of residential and non-residential buildings and signs & billboard permits Metropolitan Government Department of Code Administration

## **Healthcare**

Nashville is one of the nation's leaders in the healthcare field. HCA Healthcare has its headquarters and operates several hospitals in the surrounding area. Vanderbilt University Medical Center and St. Thomas Hospital are the city's other primary hospitals.

The Metropolitan Government relocated the city-owned hospital, the Metropolitan Nashville General Hospital, to Hubbard Hospital of Meharry Medical College in 1998. In addition, Meharry provides medical staff to the Metropolitan Nashville General Hospital. The arrangement provides the city with a renovated facility staffed with residents from Meharry Medical College.

## **Higher Education**

The Nashville Metropolitan Statistical Area has 15 colleges and universities, including Vanderbilt University, Belmont University, Tennessee State University, David Lipscomb University, Meharry Medical College, Nashville State Technical Institute and Fisk University. Total higher education enrollment exceeds 65,000 students annually.

Seven of Nashville's institutions of higher education offer graduate programs. Nashville is also a leading center for medical research and education with Vanderbilt University emphasizing medical research in addition to its programs in other disciplines and with Meharry Medical College specializing in health care delivery.

## **Professional Sports**

The Metropolitan Government is home to four professional sports franchises, all of which are located in or near downtown Nashville. The National Hockey League's Nashville Predators has played their hockey games in the Bridgestone Arena for the past 21 years. Nashville hosted the NHL All-Star game in 2017. The National Football League's Tennessee Titans have played their football games in Nissan Stadium since 1999. Nashville hosted the NFL draft in 2019. The Nashville Sounds – the AAA affiliate of the Texas Rangers – play their baseball games in First Horizon Ballpark. Nashville Soccer Club – a member of the United Soccer League – plays its soccer games at First Horizon Ballpark. In 2020, Nashville Soccer Club became a member of Major League Soccer, and plays its games at Nissan Stadium until 2022, at which time it is expected to play its games at a stadium to be constructed on the Metropolitan Government's Fairgrounds Property, located just south of downtown Nashville.

## **Cultural Facilities**

### *Library System*

The Nashville Public Library system includes a 300,000 square foot downtown main library and 20 community branches located across the county. In addition, an extensive online offering of books and resources has extended its reach beyond the traditional branch system. The library facilities host numerous in-house programs and community events throughout the year.

### *Performing Arts*

The Tennessee Performing Arts Center is the first state-funded facility of its kind in the nation and is home to the Nashville Ballet, the Nashville Opera Association, and the Tennessee Repertory Theatre. The arts center occupies an entire city block, and its venues include Andrew Jackson Hall (2,472 seats), the James Polk Theater (1,075 seats), the Andrew Jackson Theater (256 seats), and the War Memorial Auditorium (1,661 seats). The center plays host to numerous events each year, including an annual series of Broadway plays. The Nashville Children's Theater is home to the oldest professional theater for children in the county. Thousands of school age children and adults are treated to a variety of productions each year. The Schermerhorn Symphony Center is an 1,844-seat concert hall located in downtown Nashville, which hosts the Nashville Symphony.

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Andrew Jackson Theater (256 seats), and the War Memorial Auditorium (1,661 seats). The center plays host to numerous events each year, including an annual series of Broadway plays.

#### *Museums and Visual Arts*

The Frist Art Museum occupies the former Nashville's historic downtown former post office building. A public-private partnership between the Metropolitan Government, the Frist Foundation and the Dr. Thomas F. Frist, Jr. family, the Frist Center contains more than 24,000 square feet of gallery space capable of showcasing major national and international visual arts exhibitions.

The Parthenon, located in Nashville's Centennial Park, is a full-scale replica of the original building in Athens, Greece. The reproduction was built to honor Nashville's reputation for education and has attracted visitors since 1897. The recently restored building serves as Nashville's permanent art museum, holding a collection of paintings by 19<sup>th</sup> and 20<sup>th</sup> century American artists.

Cheekwood Botanical Garden and Art Museum is a fifty-five acre site that includes the original Cheek gardens, with pools, fountains, statuary, extensive boxwood plantings and breathtaking views of the rolling Tennessee hills. The Museum of Art is housed in a 30,000-square foot Georgian-style mansion, and contains world-class collections of American and contemporary painting and sculpture, English and American decorative arts and traveling exhibitions. Collections also include silver, and the most comprehensive collection of Worcester porcelain in America.

Vanderbilt University's Fine Arts Gallery showcases six exhibitions each year that represent Eastern and Western art and an international collection of works. The Van Vechten Gallery at Fisk University houses more than 100 pieces from artists like Picasso, Renoir, and O'Keeffe. For religious art, there's a wooden 8-foot-by-17-foot carving of "The Last Supper" based on Leonardo da Vinci's masterpiece at The Upper Room Chapel along with a striking 9,000-mosaic stained glass World Christian Fellowship Window. The museum at the Upper Room also has outstanding religious works, besides two annual displays of nearly 70 Ukrainian Easter eggs in April and more than 100 Nativity scenes in December.

The Country Music Hall of Fame and Museum is one of the world's largest and most active popular music research centers and the world's largest repository of country music artifacts. In May 2001, the Museum moved to a new 130,000 square foot facility in downtown Nashville. In 2014, the Museum expanded to 350,000 feet to connect to the new Omni headquarters hotel described below.

The Adventure Science Center features a state-of-the-art Planetarium as well as exhibits and programs which focus on geology, zoology, ecology, physics and other sciences. The Nashville Zoo at Grassmere is a zoological garden and historic plantation farmhouse located six miles from downtown. The Zoo contains over 6,000 individual animals and attracts approximately 950,000 visitors each year.

A new Tennessee State Museum located in downtown Nashville opened in October 2018. Highlights include six exhibitions, a children's gallery, interactive tables and screens, and documentary films.

The National Museum of African American Music is scheduled to open in Summer 2020 in downtown Nashville, directly across Broadway from the Bridgestone Arena.

#### *Music Concert Venues*

The Metropolitan Government hosts large concert events at either Bridgestone Arena or Nissan Stadium. Smaller indoor venues include the Ryman Auditorium – the 2,362-seat original home of the Grand Ole Opry – and the new Grand Ole Opry, a 4,372 seat theater venue located near Gaylord Opryland Resort & Convention Center that hosts America's longest running live radio show. The Metropolitan Government opened the Ascend Amphitheater in 2015, which maintains capacity of 6,800 and is located downtown, adjacent to the Cumberland River. The 4,500-seat Woods Amphitheatre at Fontanel is located nine miles north of downtown.

## Tourism

Tourism is a major industry in Nashville consistently ranking in the top 3 producers. The Nashville Convention and Visitors Corporation (NCVC) and U.S. Travel Data Center estimate more than 16.1 million tourists came to Nashville in 2019 and spent an estimated \$6.9 billion

The Nashville MSA has 412 hotels offering 47,962 rooms. Nashville has experienced hotel room sales growth 106 of the last 109 months (over 9 years).

### MSA HOTEL AND MOTEL ROOMS / OCCUPANCY RATE

Calendar Year	Rooms Available	Occupancy Rate
2008	34,921	62.50%
2009	35,662	57.00%
2010	35,639	59.50%
2011	35,727	63.50%
2012	36,263	66.80%
2013	37,124	69.80%
2014	37,824	72.50%
2015	38,721	73.70%
2016	40,558	75.10%
2017	41,733	74.10%
2018	44,335	73.30%
2019	47,676	73.50%

Source: Nashville Conventions and Visitors Corporation

#### *Conventions and Corporate Meetings*

Nashville's Music City Center opened in May 2013 and features a 350,000 square foot exhibit hall, 75,000 square feet of ballroom space (consisting of a 57,000 square foot grand ballroom and an 18,000 square foot junior ballroom), 90,000 square feet of meeting rooms, 31 loading docks and a parking garage with 1,800 spaces. The Center's location created a high demand for hotel rooms, particularly full-service properties. An 800-room full-service Omni headquarters hotel opened in September 2013 next to the Music City Center. In the fall of 2016, a 454-room full-service Westin Hotel opened adjacent to the Music City Center. A 533-room J W Marriott opened in 2018. Several smaller hotels have also opened near the Music City Center. The Music City Center and its adjacent hotels are located within walking distance of the downtown entertainment district described below.

Located approximately ten miles from downtown is the Gaylord Opryland Resort & Convention Center, the third largest hotel/convention center under one roof in the United States. The complex features 2,881 hotel rooms, 263,000 square feet of exhibit space and 300,000 square feet of meeting space. SoundWaves, a half-indoor-half-outdoor water park at Gaylord Opryland opened in May of 2019. SoundWaves spans four acres and 111,000 square feet of indoor attractions, dining and amenities, as well as 106,000 square feet of outdoor water attractions. Adjacent to the Gaylord Opryland Resort & Convention Center is the Grand Ole Opry, described above, and Opry Mills – a 1.1 million square foot megamall, which opened in May 2000. The mall contains 200 stores, theme restaurants, a 20 screen multi-theater complex and an IMAX theater.

### *Downtown Entertainment District*

The downtown entertainment district encompasses approximately 20 square blocks centered around historic Lower Broadway (or Lower Broad). Lower Broad consists primarily of historic brick restaurants and bars that feature live music with no cover charge. Many of the restaurants and bars are owned and/or sponsored by current and past music artists. Lower Broad is a short walk to the Music City Center and its adjacent hotels, Nissan Stadium, Bridgestone Arena, the Ryman, the Country Music Hall of Fame and Museum and most other downtown Nashville attractions.

The Convention Center, Omni, Westin and J W Marriott hotels are located downtown in the Metropolitan Government's Central Business District, and are within walking distance of many notable attractions, including, the Bridgestone Arena, the Ryman Auditorium, Frist Center for the Visual Arts, Schermerhorn Symphony Center, Musicians Hall of Fame and Museum and the Johnny Cash Museum.

### *Seasonal, Festival and Sporting Events*

Downtown Nashville annually hosts several seasonal, festival and sporting events. Downtown Nashville hosts one of the nation's largest New Year's Eve parties each year, with approximately 100,000 people coming to downtown for fireworks and live music. Nashville also hosts a four-day music festival each June known as CMA Music Fest. The event includes performances by more than 100 entertainers and groups, autograph sessions and activities directed at the attendees. Nissan Stadium hosts the college football Music City Bowl each December, and the Bridgestone Arena is a regular host for Southeastern Conference and NCAA men's and women's basketball tournaments.

## **Education**

The Nashville public schools make up the second largest school system in Tennessee. The following table summarizes the school system's enrollment and attendance trends.

### **SCHOOL SYSTEM**

#### **Public Schools Enrollment and Attendance**

School Year	Enrollment	Average Attendance
2008-2009	75,043	69,686
2009-2010	76,329	70,979
2010-2011	78,096	73,808
2011-2012	79,117	75,072
2012-2013	81,077	76,946
2013-2014	82,863	75,190
2014-2015	84,500	76,252
2015-2016	85,797	77,791
2016-2017	86,633	78,098
2017-2018	85,735	77,117
2018-2019	86,292	77,218

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**APPENDIX E**  
**FORM OF OPINION OF BOND COUNSEL**

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(Form of Opinion of Bond Counsel)

Bass, Berry & Sims PLC  
150 Third Avenue South, Suite 2800  
Nashville, Tennessee 37201

April 8, 2020

We have acted as bond counsel to The Metropolitan Government of Nashville and Davidson County (the “Issuer”) in connection with the issuance of \$169,575,000 Water and Sewer Revenue Bonds, Series 2020A and \$45,530,000 Water and Sewer Revenue Bonds, Series 2020B, dated the date hereof (collectively, the “Bonds”). We have examined the law and such certified proceedings and other papers as we deemed necessary to render this opinion.

As to questions of fact material to our opinion, we have relied upon the certified proceedings and other certifications of public officials furnished to us without undertaking to verify such facts by independent investigation.

Based on our examination, we are of the opinion, as of the date hereof, as follows:

1. The Bonds have been duly authorized, executed and issued in accordance with the constitution and laws of the State of Tennessee and constitute valid and binding obligations of the Issuer.

2. The resolution of the Metropolitan County Council of the Issuer authorizing the Bonds has been duly and lawfully adopted, is in full force and effect and is a valid and binding agreement of the Issuer enforceable in accordance with its terms.

3. The principal of, premium, if any, and interest on the Bonds are payable solely from, and secured solely by, a pledge of the revenues of the Issuer’s water and sewer system (the “System”), subject to the costs of operating the System, on a parity and equality of lien with the Issuer’s Water and Sewer Revenue Bonds, Series 2010A, Water and Sewer Revenue Bonds Federally Taxable, Series 2010B (Build America Bonds – Direct Payment), Water and Sewer Revenue Bonds Federally Taxable, Series 2010C (Recovery Zone Economic Development Bonds), Water and Sewer Revenue Refunding Bonds Federally Taxable, Series 2010D, Water and Sewer Revenue Bonds, Series 2013, Water and Sewer Revenue Bonds, Series 2017A (Green Bonds) and Water and Sewer Revenue Bonds, Series 2017B. We express no opinion as to the sufficiency of any of such revenues for the payment of principal of, premium, if any, or interest on the Bonds.

4. Interest on the Bonds is excluded from gross income for federal income tax purposes and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals and corporations; however, such interest is taken into account in determining adjusted current earnings of certain corporations for purposes of alternative minimum tax on corporations. The opinion set forth in the preceding sentence is subject to the condition that the Issuer comply with all requirements of the Internal Revenue Code of 1986, as amended, that must be satisfied subsequent to the issuance of the Bonds in order that interest thereon be, or continue to be, excluded from gross income for federal income tax purposes. Failure to comply with certain of such requirements could cause interest on the Bonds to be so included in gross income retroactive to the date of issuance of the Bonds. The Issuer has covenanted to comply with all such requirements. Except as set forth in this Paragraph 4, we express no opinion regarding other federal tax consequences arising with respect to the Bonds.

5. Under existing law, the Bonds and the income therefrom are exempt from all present state, county and municipal taxes in Tennessee except (a) Tennessee excise taxes on all or a portion of the interest on any of the Bonds during the period such Bonds are held or beneficially owned by any organization or entity, other than a sole proprietorship or general partnership, doing business in the State of Tennessee, and (b) Tennessee franchise taxes by reason of the inclusion of the book of the Bonds in the Tennessee franchise tax base of any organization or entity, other than a sole proprietorship or general partnership doing business in the State of Tennessee.

It is to be understood that the rights of the owners of the Bonds and the enforceability of the Bonds and the resolution authorizing the Bonds may be subject to bankruptcy, insolvency, reorganization, moratorium and other similar laws affecting creditors' rights heretofore or hereafter enacted and that their enforcement may be subject to the exercise of judicial discretion in accordance with general principles of equity.

We express no opinion herein as to the accuracy, adequacy or completeness of the Official Statement relating to the Bonds.

Yours truly,

Bass Berry & Sims PLC



**APPENDIX F**  
**FORM OF CONTINUING DISCLOSURE AGREEMENT**

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THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY

\$169,575,000 WATER AND SEWER REVENUE BONDS, SERIES 2020A  
\$45,530,000 WATER AND SEWER REVENUE BONDS, SERIES 2020B

CONTINUING DISCLOSURE AGREEMENT

This Continuing Disclosure Agreement (this “Disclosure Agreement”) is executed and delivered this 8th day of April, 2020 by The Metropolitan Government of Nashville and Davidson County (the “Issuer”) in connection with the issuance of its \$169,575,000 Water and Sewer Revenue Bonds, Series 2020A and its \$45,530,000 Water and Sewer Revenue Bonds, Series 2020B (together, the “Bonds”). The Issuer hereby covenants and agrees as follows:

SECTION 1. Purpose of and Authority for the Disclosure Agreement. This Disclosure Agreement is being executed and delivered by the Issuer for the benefit of the Registered Owners and the Beneficial Owners of the Bonds and in order to assist the Participating Underwriters in complying with Rule 15c2-12(b)(5) (the “Rule”) of the Securities and Exchange Commission (the “SEC”). This Disclosure Agreement is being executed and delivered by the Issuer under the authority of the Resolution.

SECTION 2. Definitions. In addition to the terms otherwise defined herein, the following capitalized terms shall have the following meanings:

“Beneficial Owner” shall mean any person who (a) has the power, directly or indirectly, to vote or consent with respect to, or to dispose of ownership of, any Bonds (including persons holding Bonds through nominees, depositories or other intermediaries) or (b) is treated as the owner of any Bonds for federal income tax purposes.

“Fiscal Year” shall mean any period of twelve consecutive months adopted by the Issuer as its fiscal year for financial reporting purposes, and shall initially mean the period beginning on July 1 of each calendar year and ending June 30 of the following calendar year.

“MSRB” shall mean the Municipal Securities Rulemaking Board.

“Official Statement” shall mean the Official Statement of the Issuer, dated April 2, 2020, relating to the Bonds.

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

“Registered Owner” means any person who is identified as a holder of Bonds on the registration records maintained by or on behalf of the Issuer with respect to the Bonds.

“Resolution” shall mean the bond resolution adopted by the Metropolitan County Council of the Issuer on March 17, 2020.

“State” shall mean the State of Tennessee.

“State Repository” shall mean any public or private repository or entity designated by the State as a state repository for the purpose of the Rule.

“System” means the water and wastewater system of the Issuer.

SECTION 3. Continuing Disclosure. The Issuer hereby agrees to provide or cause to be provided the information set forth below:

(a) *Annual Financial Information.* For Fiscal Years ending on or after June 30, 2020, the Issuer shall provide annual financial information and operating data within 12 months after the end of the Fiscal Year. The annual financial information and operating data shall include:

- (i) The audited financial statements for the System, prepared in accordance with generally accepted accounting principles, or, if the audited financial statements for the System are not available, then the unaudited financial statements for the System; and
- (ii) To the extent not included in the audited financial statements, operating data of the type included as part of Appendices C and D of the Official Statement, which data may be presented in a manner other than as set in the Official Statement.

(b) *Audited Financial Statements.* For Fiscal Years ending on or after June 30, 2020, the Issuer shall provide audited financial statements for the System, prepared in accordance with generally accepted accounting principles, if and when available, if such audited financial statements are not included with the annual financial information described in subsection (a) above.

(c) *Event Notices.* The Issuer will provide notice of the following events relating to the Bonds in a timely manner, not in excess of ten business days after the occurrence of the event:

- (i) Principal and interest payment delinquencies;
- (ii) Non-payment related defaults, if material;
- (iii) Unscheduled draws on debt service reserves reflecting financial difficulties;
- (iv) Unscheduled draws on credit enhancements reflecting financial difficulties;
- (v) Substitution of credit or liquidity providers, or their failure to perform;
- (vi) 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;
- (vii) Modifications to rights of Bondholders, if material;
- (viii) Bond calls, if material, and tender offers;
- (ix) Defeasances (including disclosure as to whether the Bonds have been defeased to their maturity or to a preceding call date);
- (x) Release, substitution, or sale of property securing repayment of the securities, if material;
- (xi) Rating changes;
- (xii) Bankruptcy, insolvency, receivership or similar event of the obligated person;
- (xiii) The consummation of a merger, consolidation or acquisition involving an obligated person or the sale of all or substantially all of the assets of the obligated person, 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;

- (xiv) Appointment of a successor or additional trustee or the change of name of a trustee, if material;
- (xv) Incurrence of a financial obligation\* of the Issuer, if material, or agreement to covenants, events of default, remedies, priority rights, or other similar terms of a financial obligation of the Issuer, any of which affect security holders, if material; and
- (xvi) Default, event of acceleration, termination event, modification of terms, or other similar events under the terms of a financial obligation of the Issuer, any of which reflect financial difficulties.

\* As used in subsections (xv) and (xvi), the term “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” does not include municipal securities as to which a final official statement has been provided to the MSRB consistent with the Rule.

(d) *Notice of Failure to File Annual Financial Information.* The Issuer will provide timely notice of its failure to provide the annual financial information described in subsection (a) above within the time frame prescribed by subsection (a).

(e) *Notice of Amendment of Disclosure Agreement.* The Issuer will provide timely notice of an amendment to this Disclosure Agreement pursuant to the terms of Section 5(a) below.

#### SECTION 4. Methods of Providing Information.

(a) All disclosures required by Section 3 shall be transmitted to the MSRB using the MSRB's Electronic Municipal Market Access System (“EMMA”) or by such other method as may be subsequently determined by the MSRB.

(b) Information shall be provided to the MSRB in an electronic format as prescribed by the MSRB, either directly, or indirectly through an indenture trustee or a designated dissemination agent.

(c) All transmissions to the MSRB shall be accompanied by identifying information as prescribed by the MSRB.

(d) Any required disclosure may be incorporated by reference to other documents filed with the MSRB in the manner required by subsection (a) above. The Issuer shall clearly identify each such other document so incorporated by reference.

(e) All disclosures transmitted to the MSRB hereunder shall be simultaneously transmitted to any State Repository.

#### SECTION 5. Amendment.

(a) This Disclosure Agreement may be amended or modified so long as: (i) any such amendments are not violative of any rule or regulation of the SEC or MSRB, or other federal or state regulatory body; (ii) 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 obligated person, or type of business conducted; (iii) this Disclosure Agreement, as amended, would have complied with the requirements of the Rule at the time of the primary offering of the Bonds, after taking into account any amendments or interpretations of the Rule, as well as any change in circumstances; and (iv) the amendment does not materially impair the interests of Beneficial Owners or Registered Owners, as determined either by parties unaffiliated with the Issuer (such as bond counsel), or

by approving vote of the Beneficial Owners and Registered Owners pursuant to the terms of the Resolution at the time of the amendment.

(b) In the event of any amendment or modification to the financial information or operating data required to be filed pursuant to Section 3(a) above, the Issuer shall describe such amendment in the next filing pursuant to Section 3(a), and shall include, as applicable, a narrative explanation of the reason for the amendment or waiver and its impact on the type (or, in the case of a change of accounting principles, on the presentation) of financial information or operating data being presented by the Issuer. In addition, if the amendment relates to the accounting principles to be followed in preparing financial statements, the next filing pursuant to Section 3(a) or 3(b), as applicable, shall present a comparison (in narrative form and also, if feasible, in quantitative form) between the financial statements as prepared on the basis of the new accounting principles and those prepared on the basis of the former accounting principles.

SECTION 6. Termination of Reporting Obligation. The Issuer's obligations under this Disclosure Agreement shall terminate upon the legal defeasance, prior redemption or payment in full of all of the Bonds.

SECTION 7. Additional Information. Nothing in this Disclosure Agreement shall be deemed to prevent the Issuer from disseminating any other information, using the means of dissemination set forth in this Disclosure Agreement or any other means of communication, in addition to that which is required by this Disclosure Agreement. If the Issuer chooses to include any information in any disclosure required hereunder, in addition to that which is specifically required by this Disclosure Agreement, the Issuer shall have no obligation under this Disclosure Agreement to update such information or include it in any future disclosure.

SECTION 8. Beneficiaries. This Disclosure Agreement shall inure solely to the benefit of the Registered Owners and Beneficial Owners from time to time of the Bonds, and shall create no rights in any other person or entity.

SECTION 9. Default. In the event of a failure of the Issuer to comply with any provision of this Disclosure Agreement, any Registered Owner or Beneficial Owner may take such actions as may be necessary and appropriate, including seeking specific performance by court order, to cause the Issuer to comply with its obligations under this Disclosure Agreement. A default under this Disclosure Agreement shall not be deemed a default under the Resolution, and the sole remedy under this Disclosure Agreement in the event of any failure of any party to comply with this Disclosure Agreement shall be an action to compel performance.

SECTION 10. Governing Law. This Disclosure Agreement shall be governed by and construed in accordance with the laws of the State.

SECTION 11. Severability. In case any one or more of the provisions of this Disclosure Agreement shall for any reason be held to be illegal or invalid, such illegality or invalidity shall not affect any other provision of this Disclosure Agreement, but this Disclosure Agreement shall be construed and enforced as if such illegal or invalid provision had not been contained herein.

THE METROPOLITAN GOVERNMENT OF NASHVILLE  
AND DAVIDSON COUNTY

By: \_\_\_\_\_  
Metropolitan Mayor



