



**Report on  
Onondaga County Long-Term Debt  
By Onondaga County Comptroller Robert E. Antonacci, CPA, Esq.**

<b>Table of Contents</b>
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<b>Onondaga County Debt Summary</b>	<b>3</b>
<b>Debt Issuance</b>	<b>3</b>
<b>General Obligation Bonds Known as Serial Bonds (GOBs)</b>	<b>5</b>
<b>Environmental Financing Corporation Bonds (EFC)</b>	<b>7</b>
<b>County Debt Limit</b>	<b>9</b>
<b>Debt Defeasance</b>	<b>10</b>
<b>OTASC Bonds</b>	<b>10</b>
<b>Authorized and Unissued Debt</b>	<b>13</b>
<b>Exhibit A – 2016 Authorized/Unissued Debt</b>	<b>6 pages</b>
<b>Exhibit B – Onondaga County General Obligation Bonds Issuance Costs</b>	<b>2 pages</b>
<b>Exhibit C – EFC Administration Fees</b>	<b>1 page</b>
<b>Exhibit D – General Obligation Bonds Schedule of Principal Payments</b>	<b>7 pages</b>
<b>Exhibit E – General Obligation Bonds Schedule of Gross Interest Payments</b>	<b>8 pages</b>

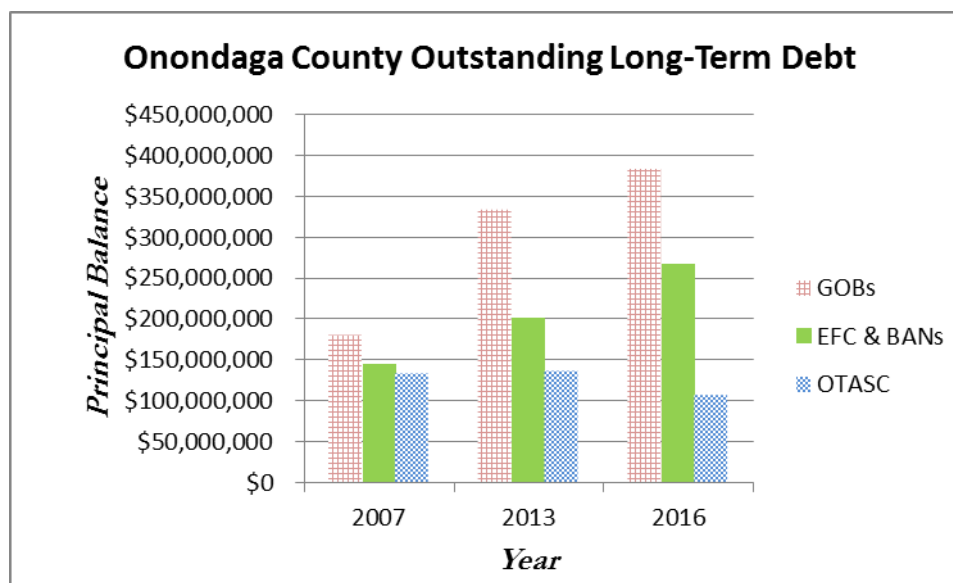
## **Table of Contents (continued)**

<b>Exhibit F – EFC Bonds Schedule of Principal Payments by Project</b>	<b>2 pages</b>
<b>Exhibit G – EFC Bonds Schedule of Gross Interest by Project</b>	<b>2 pages</b>
<b>Exhibit H – EFC Bonds Schedule of Net Interest by Project</b>	<b>2 pages</b>

## Onondaga County Debt Summary

Onondaga County issues several types of debt:

- General Obligation Bonds known as Serial Bonds (GOBs)
- Loans made through Environmental Facilities Corporation (EFC)
- Bond Anticipation Notes (BANs)
- Onondaga Tobacco Asset Securitization Corporation (OTASC) Debt Proceeds



## Debt Issuance

The State Legislature has granted the power and defined the procedure for Onondaga County (the County) to issue debt through the enactment of the Local Finance Law, Article 2, Title 1. The County authorizes the issuance of bonds by the adoption of a bond resolution. In order for a resolution to pass, it must be approved by at least two-thirds of the County Legislature. Through the bond resolution, the County Legislature delegates to the County Chief Fiscal Officer the power to authorize and sell Bond Anticipation Notes (BANs) in anticipation of authorized bonds.

BANs are short term borrowings, 12 months or less, and are used for two main reasons: 1. for projects that are small in amount or would otherwise be inappropriate for long term borrowing, 2. they allow the County the ability to capitalize on favorable interest rates for long-term debt. Each bond resolution authorizes the construction, acquisition or installation of the object or purpose to be financed, the plan of financing, the amount of money being borrowed, and the Period of Probable Usefulness. NYS law permits BANs to be renewed each year provided annual principal installments are made. If the principal

is not paid off after the fourth renewal (five years from original date of borrowing), the BAN must be converted to a Serial Bond, with exception for Special District Borrowing for Water Environment Protection Fund (WEP) and Water Fund. General Obligation or serial bonds can be issued for a period of time that is not greater than the Period of Probable Usefulness and are subject to legal restrictions. The County Legislature also has the ability to issue Revenue Anticipation Notes (RANs) and Tax Anticipation Notes (TANs), which would be paid off when the respective item is received; these are typically issued for short term cash shortages due to timing differences. We are not aware of the County issuing RANs or TANs from 2007 through 2016.

The Finance Department proposes a resolution to the Onondaga County Legislature to bond for projects. The resolution requires a two-thirds vote from the Onondaga County Legislature. Once it is authorized, the monies can be spent by the departments on their projects. Fiscal Advisors & Marketing, Inc. (Fiscal Advisors) assists the Finance Department in structuring the bond. Fiscal Advisors is a financial service firm that advises local governments on the timing, method, and amount of bond sales. They help prepare debt repayment maturity schedules and provide guidance in the debt structuring and sale of bonds. Once Fiscal Advisors structures the bond repayment schedule, the Finance Department adjusts it based on the knowledge they have of individual projects. For example, a project may be completed before the term of the bond, resulting in that project's principal amount being paid off earlier than other projects within the bond. Next, an official statement is assembled, with the aid of Fiscal Advisors and the County's bond counsel, Orrick, Herrington & Sutcliffe Law, for the proposed bonding for competitive bids in the bond market.

The official statement is sent to the rating agencies with the previous year's Onondaga County Comprehensive Annual Financial Report (CAFR) to provide them information with which to determine a bond issuance rate. As part of the process, representatives from the County Finance Department meet with the rating agencies to advocate for the strength of the County's financial position. Once the new bond rate is set, a sale date is chosen and sent out on the wire. The new bond issue is placed in the trade newspaper, Bond Buyer.

Investment companies may bid as one or as a group bond purchase. Onondaga County seeks to obtain a good "premium" on the sale of the bond and a good effective NIC (net interest cost) rate and/or effective TIC (true interest cost) rate. The effective NIC rate is the total amount of interest to accrue on the bonds from their inception date to their respective maturities, less the amount of any premium or plus the amount of any discount. The effective TIC rate takes into consideration the true cost of borrowing. It considers the time value of money while NIC does not. The bidding investment companies put down a deposit of "good faith" with their bid. The deposit of the investment company selected by Onondaga County to represent the sale of the bond becomes part of the bond value. For those companies not selected, the deposits are refunded.

The Finance Department completes all wire transfer payments on General Obligation serial bonds; for EFC bonds, the money is automatically withdrawn from the County's bank account.

There are costs associated with bond issuance. Bond issue costs include rating agency fees, attorney fees, publication fees, local accounting fees, printing fees, and bond advisory fees. See Exhibit B for General Obligation Bond issuance costs from 2005 through 2016.

## **General Obligation Bonds Known as Serial Bonds (GOBs)**

The County generally borrows funds on a long-term basis for the purpose of financing the acquisition of land, equipment, construction of buildings and improvements, and infrastructure. The County authorizes and issues GOB and EFC bonds for these purposes. Projects initiated through the Water Environment Protection (WEP) and Water Funds are supported by revenues raised within those individual funds and do not rely on financial support from the general property tax levy. County projects outside the WEP and Water Funds address basic operating services including public safety, finance, information technology, parks and recreation, highway, and other direct operating services. Debt service for borrowing associated with these capital projects is an operating budget expense supported primarily by the property tax levy and sales tax revenue.

Bond principal and interest payments are subsidized in several ways. One source of subsidy is the Reserve for Bonded Debt (RBD). RBD is an escrow account of bond premiums, bond monies unused from projects, and interest earned. As of December 31, 2016, the Reserve for Bonded Debt account had a balance of \$23,805,167. Of this balance, \$14,399,015 is restricted to pay specific debt; \$9,406,152 is unrestricted, meaning there are no restrictions on what debt balances can be paid off. The Onondaga County Department of Management and Budget determines the manner in which RBD funds are utilized.

Another source of payment or subsidy of the General Obligation Bond principal and interest is the Build America Bonds (BABs) and Recovery Zone (RZ) bond issue. BABs provide state and local governments with a direct federal payment subsidy for a portion of their borrowing costs on taxable bonds. The BABs subsidy was initially 35% of the taxable borrowing costs. The BABs capital projects generally encompass work on public buildings, courthouses, schools, transportation infrastructure, government hospitals, public safety facilities, and government housing projects and public utilities. RZ bonds were intended to stimulate economic recovery. These bonds allowed the County to borrow at a lower cost than traditional tax-exempt financing. The RZ bonds had an initial 45% interest subsidy. They were issued for purposes of promoting development or other economic activity, including public infrastructure. The BABs and RZ bond issues are subject to sequestration by the IRS. This means that subsidy refund payments processed each federal fiscal year are reduced by an annual rate established by the federal government. Sequestration began on these bonds in 2013 and has been in the range of 6.8% to 8.7%. Currently, the sequestration order is scheduled to last through 2023. In 2016, there was a total BABs and RZ bond interest subsidy of \$388,435.

E911 surcharges are used to pay down General Obligation Bonds for E911 projects. In 2016, a total of \$3,458,738 in surcharge revenue was appropriated in the budget to offset debt service of E911 projects.

Onondaga Community College (OCC) debt service was partially funded with college chargeback collections of \$600,000 in 2016. Chargeback revenue is generated by payments made by the sponsoring county for non-resident OCC students. The rates vary by college and are set annually by the State University of New York based on the sponsoring county's contribution to the college divided by the number of county residents enrolled. The rates are comprised of a capital and operating component; the capital component is applied to debt service.

WEP pays principal and interest via an annual sewer fee that is described in detail on page 7. The annual sewer fee is used to pay WEP operations and any available excess could be used to pay General Obligation WEP debt and Environmental Funding Corporation (EFC) debt.

Onondaga County had a one-time opportunity to pay down a large portion of Serial Bond debt, \$95 million in 2001 and \$18 million in 2005, due to the sale of OTASC bonds funded from a Tobacco Master Settlement. In 2016 there was refunding and exchanging of older issue bonds at negotiated prices. See page 10 - OTASC Bonds.

The total General Obligation Serial Bond principal and interest outstanding as of December 31, 2007, 2013, and 2016 are as follows:

	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
12/31/07	\$ 181,057,700	\$ 56,691,430	<b>\$ 237,749,130</b>
12/31/13	333,656,000	101,481,928	<b>435,137,928</b>
12/31/16	384,795,000	120,334,332	<b>505,129,332</b>

The principal amounts are detailed by Onondaga County department as follows:

Department	Principal Balance			Principal Inc (Dec)
	12/31/2007	12/31/2013	12/31/2016	2007 to 2016
<b>BOE</b>	\$ -	\$ 364,000	\$ 237,151	<b>\$ 237,151</b>
<b>Corrections</b>	150,000	2,039,100	1,588,122	<b>1,438,122</b>
<b>E911</b>	8,385,000	26,405,000	17,581,653	<b>9,196,653</b>
<b>Facilities</b>	49,717,310	36,987,179	37,408,401	<b>(12,308,909)</b>
<b>General Fund</b>	3,920,000	-	-	<b>(3,920,000)</b>
<b>Hillbrook</b>	6,000,000	4,350,000	3,227,166	<b>(2,772,834)</b>
<b>IT</b>	-	12,224,812	8,982,214	<b>8,982,214</b>
<b>Metro Water Board</b>	4,225,000	24,358,131	31,959,800	<b>27,734,800</b>
<b>OCC</b>	11,873,000	35,308,409	34,567,845	<b>22,694,845</b>
<b>On Comm Pub Lib</b>	662,000	4,927,936	6,395,073	<b>5,733,073</b>
<b>OnCenter</b>	1,775,000	12,918,461	11,638,204	<b>9,863,204</b>
<b>Parks</b>	5,994,000	19,227,340	68,691,475	<b>62,697,475</b>
<b>Sheriff</b>	11,973,200	1,996,000	470,000	<b>(11,503,200)</b>
<b>Transportation</b>	36,856,190	75,109,595	77,935,200	<b>41,079,010</b>
<b>Van Duyn</b>	-	3,460,000	2,050,000	<b>2,050,000</b>
<b>WEP</b>	39,527,000	73,980,037	82,062,696	<b>42,535,696</b>
<b>Total</b>	<b>\$ 181,057,700</b>	<b>\$ 333,656,000</b>	<b>\$ 384,795,000</b>	<b>\$ 203,737,300</b>

<b>% Increase in Serial Bonds Principal from 12/31/07-12/31/16</b>	<b>112.53%</b>
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Exhibits D and E display General Obligation Bonds principal and interest as of 12/31/2016.

## Environmental Financing Corporation Bonds (EFC)

The New York State Environmental Facilities Corporation, (EFC), provides low-cost capital and expert technical assistance for environmental projects in New York State. EFC extends financial and technical assistance to municipalities, non-profits, and small businesses, ensuring they meet water and air quality regulations. Onondaga County EFC interest on bonds is subsidized at approximately 50% of total interest by NYS Environmental Facilities Corporation. See page 8 for a detail of EFC bonds outstanding.

Onondaga County pays yearly administrative fees to EFC for the loans. For the period of 2017 thru 2043 for the loans outstanding, Onondaga County will pay administrative fees in the amount of \$6,717,414. See Exhibit C – EFC Administration Fees for yearly breakdown of payments.

The Onondaga County EFC bonds are funded by sanitary sewer system charges. Sewer rents are allocated and charged annually on County property tax bills on the basis of “units” (one unit = an estimated 137,000 gallons annual usage) as defined in the schedule below as per Onondaga County Legislative Resolution 2017-46 adopted on April 4, 2017.

- a. Single family structure, mobile home, townhouse, and condominium – one unit each.
- b. All other multi-family residential structures – three-fourths unit per family.
- c. Mixed use properties having both residential and commercial use – three-fourths unit per family plus one unit assigned for the total commercial space, or, alternatively, in the event that the actual water usage exceeds the calculation of gallons per unit within this subsection (c) for the residential and commercial portions of the property, the number of units to be assigned to such property shall be based on water bills, as follows:
  1. Up to 137,000 gallons per year – one unit.
  2. One unit and fraction thereof for each 137,000 gallons per year.
- d. Commercial, industrial and institutional properties – units assigned based on water bills, or where property is metered, or sufficient verification exists of wastewater discharged, as follows:
  1. Up to 137,000 gallons per year – one unit.
  2. One unit and fraction thereof for each 137,000 gallons per year.

Unit charge rates are adjusted annually to account for fluctuations in costs of operating the sewer system.

### Annual Consolidated Districts Sewer Charges

Year	Unit Charge	Number of Units	Total Sewer Charge
2017 <sup>1</sup>	\$ 404.99	183,511	\$74,318,867
2016	\$ 411.11	180,777	\$74,319,488
2015	\$ 411.19	180,741	\$74,318,921
2014	\$ 388.80	180,765	\$70,281,472
2013	\$ 362.55	180,326	\$65,376,983
2012	\$ 358.68	180,967	\$64,909,147
2011	\$ 338.33	179,863	\$60,851,332
2010	\$ 325.71	181,269	\$59,040,837

<sup>1</sup> 2017 figures are from the Onondaga County 2017 Adopted Budget, calculated prior to Legislative Resolution 2017-46.

Total EFC bond principal (including BANs) and interest outstanding as of December 31, 2007, 2013, and 2016:

	Principal	Interest	Total
12/31/07	\$ 145,537,938	\$ 81,812,725	\$ 227,350,663
12/31/13	200,942,657	57,132,444	258,075,101
12/31/16	267,290,296	112,353,953	379,644,249

The principal amounts are detailed by capital project as follows:

Project	EFC Project Description	Principal Balance			Principal Inc(Dec) 2007 to 2016
		12/31/07	12/31/13	12/31/16	
587301	TRUNK SEWER IMP	\$ 7,407,050	\$ 5,732,300	\$ 4,811,100	\$ (2,595,950)
587341	PUMP STATIONS IMP	1,127,950	877,700	718,900	(409,050)
587351	BREWERTON/ROT SL DRUM THICK	1,110,000	665,000	425,000	(685,000)
587354	ACJ METRO IMPR PH PHOS REM/CHE	3,605,000	2,040,000	1,200,000	(2,405,000)
587372	SYR & GEDDES CONV SYS IMP BR 1	3,440,000	2,165,000	1,485,000	(1,955,000)
587373	WETZEL RD WWTP UPGRADE BR 300	41,713,628	34,425,000	30,510,000	(11,203,628)
587383	ENVIRON LAB & FLOW CONTROL	4,775,000	3,260,000	2,435,000	(2,340,000)
587384	L'POOL PUMP STATIONS IMPROVEME	5,045,439	3,560,000	2,735,000	(2,310,439)
587398	ACJ BIOSOLIDS HANDLING IMP BR	14,924,894	11,105,000	8,985,000	(5,939,894)
587584	ELECTRONICS PARK TRUNK SEWER	-	-	2,830,000	2,830,000
587944	MCP-AERATION SYS ENG BR 61-98	715,000	400,000	235,000	(480,000)
587947	MCP-COMP BASED PROC CONTR SYS	210,000	120,000	75,000	(135,000)
587948	ACJ MIDLAND AVE CONV ENG	24,896,449	31,940,177	28,938,898	4,042,449
587949	ACJ MALTBIE ST/TEALL & HARBOR	430,000	280,000	190,000	(240,000)
587951	ACJ FRANKLIN ST FCF	875,000	489,436	315,308	(559,692)
587953	ACJ KIRKPATRICK ST PS	3,580,000	2,355,000	1,695,000	(1,885,000)
587954	ACJ METRO IMPR PH PHOS REM/CHE	575,000	335,000	215,000	(360,000)
587955	ACJ SIPHON CROSSINGS	70,000	35,000	20,000	(50,000)
587956	ACJ WEST STREET SEWER SEPARATI	280,000	160,000	100,000	(180,000)
587958	ACJ ERIE BLVD STORAGE SYSTEM U	730,000	460,000	310,000	(420,000)
587959	ACJ HARBOR BROOK IN WATER TRMT	-	-	59,106,000	59,106,000
587960	ACJ CLINTON ST CONVEYANCES	-	14,320,000	75,446,817	75,446,817
587961	ACJ FULL SCALE AMMONIA/PHOS RE	15,309,284	10,495,000	7,845,000	(7,464,284)
587963	ACJ SEWER SEPARATION	2,573,244	9,550,953	8,025,000	5,451,756
587968	SANITARY DISTRICT IMP BR 18 2/	2,030,000	1,375,000	1,020,000	(1,010,000)
588491	METRO STP PHASE 1 CONSENT ORD	2,070,000	-	-	(2,070,000)
588510	HIAWATHA/SPRING ST CSO	1,880,000	1,060,000	620,000	(1,260,000)
588525	METRO ODOR CONTROL SYSTEM IMP	4,580,000	2,280,000	1,030,000	(3,550,000)
588609	J'VILLE PEN PUMP STA & CONV SY	1,585,000	1,070,000	795,000	(790,000)
	<b>EFC Subtotal</b>	<b>145,537,938</b>	<b>140,555,566</b>	<b>242,117,023</b>	<b>96,579,085</b>
<b>BANS</b>					
3/27/08	32	-	25,810,710	-	-
8/16/09	33	-	34,576,381	-	-
9/24/15	35, 36, 37			25,173,273	25,173,273
	<b>EFC Total</b>	<b>\$ 145,537,938</b>	<b>\$ 200,942,657</b>	<b>\$ 267,290,296</b>	<b>\$ 121,752,358</b>

<b>% Increase in EFC Bonds Principal from 12/31/07-12/31/16 (incl. BANs)</b>	<b>83.66%</b>
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Exhibits F, G, and H display EFC bonds principal and interest by project as of 12/31/2016.



## County Debt Limit

Local Finance Law permits Onondaga County to issue General Obligation debt up to a statutory debt limit. The statutory debt limit is 7% of the 5 year average full valuation of Taxable Real Property within the County. Total Net Indebtedness is calculated by adding the County's short and long-term debt and subtracting the legal exclusions. The percentage of debt contracting power exhausted is the total net indebtedness divided by the 7% Debt Limit.

### Calculation of Total Net Indebtedness

5 year average full valuation of taxable real property	\$ 26,303,372,702
Debt Limit (7% of 5 year average)	\$ 1,841,236,089
<b>Scheduled Debt as of December 31, 2016</b>	
General Obligation Bonds	\$ 384,795,000
EFC Bonds	242,117,323
Bond Anticipation Notes (BANS)	25,173,272
Outstanding Gross Indebtedness	652,085,595
<u>Less Exclusions:</u>	
EFC Bonds	(242,117,323)
BANS	(25,173,272)
Sewer Debt	(52,073,811)
Water Debt	(31,959,800)
Approp. Serial Bonds 2016	(25,771,739)
	<u>(377,095,945)</u>
Total Net Indebtedness	\$ 274,989,650
<i>divided by</i>	
Net Debt-Contracting Margin	<u>\$ 1,566,246,439</u>
Percentage of Debt contracting Power Exhausted	<u><u>14.94%</u></u>

Finance Law allows that some debt can be exempt from the Constitutional Debt Limit. This is the limit put on government to prevent over borrowing. Defeased debt, defined as when the borrower has set aside sufficient assets to cover the debt, does not have to be recorded on the balance sheet. General Obligation principal debt payments appropriated in the adopted budget are excludable. All Water bonds are exempt. Sewer debt is also excludable provided an exclusion has been filed with the NYS Office of the State Comptroller. Drainage district bonds are exempt. All Serial Bonds and BANS for sewer and water and EFC bonds/notes for Sewer are exempt/excludable debt.

## **Debt Defeasance**

Defeasance of debt can be either legal or in substance. A legal defeasance occurs when debt is legally satisfied based on certain provisions in the debt instrument even though the debt is not actually paid. An in substance defeasance occurs when debt is considered defeased for accounting and financial reporting purposes even though a legal defeasance has not occurred. When debt is defeased, it is no longer reported as a liability on the balance sheet; only the new debt, if any, is reported as a liability.

Debt is considered defeased in substance for accounting and financial reporting purposes if the debtor irrevocably places cash or other assets with an escrow agent in a trust to be used solely for satisfying scheduled payments of both interest and principal of the defeased debt, and the possibility the debtor will be required to make future payments on that debt is remote. The trust is restricted to owning only monetary assets that are essentially risk-free as to the amount, timing, and collection of interest and principal.

In a defeasance, the escrow agent purchases government securities for deposit in an escrow account. The escrow account is held by a bank or trust company that serves as escrow agent. Under the terms of an escrow agreement, the government securities are irrevocably pledged for the payment of the outstanding bonds. The government securities are in a principal amount such that the principal and interest earned are sufficient to retire the principal and interest of the outstanding bonds as they come due. The government securities and all costs related to the defeasance are paid with funds accumulated in the various accounts established for the outstanding bonds or with other available funds.

## **OTASC Bonds**

In November 1998 the Tobacco Master Settlement Agreement (MSA) was entered into originally between the four largest US tobacco companies and the attorneys general of 46 states, including New York. The states settled their Medicaid lawsuits against the tobacco industry for recovery of their tobacco-related health-care costs, and also exempted the companies from private tort liability regarding harm caused by tobacco use. In exchange, the companies agreed to stop certain tobacco marketing practices, as well as to pay, in perpetuity, various annual payments to the states to compensate them for some of the medical costs of caring for persons with smoking-related illnesses. The tobacco companies agreed to pay a minimum of \$206 billion over the first 25 years of the agreement to the 46 states.

In 2001, Onondaga County formed the Onondaga Tobacco Asset Securitization Corporation (OTASC), a local development corporation, for the special purpose of the sale of Onondaga County's allocable share of tobacco assets to be received from New York State. OTASC is legally separate from the County of Onondaga; however, it is a blended component unit of the County, and therefore is included in the County's financial statements. On July 3, 2001, Onondaga County sold to OTASC all of its future rights, title and interest in the Tobacco Settlement Revenues.

The purchase price of the County's future rights, title, and interest in the Tobacco Settlement Revenues was financed by the issuance of serial bonds to investors which will be paid back with the money that OTASC expects to receive annually from tobacco companies from the master settlement agreement.

The 2001 OTASC bond had an original issue of \$111,470,000 and a portion of the proceeds from the sale (\$95.8 million) was placed into an irrevocable escrow account maintained by a party independent of the County, and was subsequently used to purchase securities to provide debt service payments for bonds that were removed from the General Long-Term Debt Account Group.

In 2005, OTASC issued bonds, of which a portion of the net proceeds of \$31.4 million was used by the County to advance refund \$6,975,000 of outstanding 2002 General Obligation Bonds and \$12,944,754 of 2005 Public Improvement Bonds. Proceeds in the amount of \$18,990,501 were deposited in an irrevocable trust with an escrow agent to provide for all future debt service payments on the 2002 and 2005 bonds. The remaining \$11.6 million was deposited into the Capital Projects Fund to support future improvements and acquisitions.

In 2016, OTASC issued Series VI 2001 A-1 Bonds, payable from pledged Tobacco Settlement Rights and investment earnings. The \$95,590,000 proceeds from these bonds was used as follows:

- The proceeds of \$55,005,000 in Series VI 2016 A-1 Bonds were used to currently refund \$55,005,000 of OTASC Series II 2001 Bonds. This was accomplished pursuant to a Purchase and Exchange Agreement between OTASC and the 2001 bond holders.
- The proceeds of \$40,585,000 in Series VI 2016 A-2 Bonds, were used in addition to certain other funds to currently refund \$19,685,000 in OTASC Series II 2001 Bonds and currently refund \$11,674,474 in principal and accreted interest of the OTASC Series V 2005 Bonds. Additionally, \$33,371,407 (including Series VI 2016 Bond proceeds in addition to other funds) was used to completely defease the S1, S2, and S4A of the Series V 2005 Bonds (\$35,142,650, comprised of \$17,434,106 in principal and \$17,708,544 in accreted interest) and purchase, at negotiated prices pursuant to a Purchase and Exchange Agreement between OTASC and the 2005 bond holders, all of the Series V 2005 S-2 and S-4A Bonds.

The 2016 OTASC activity is summarized as follow:

NYCTT II Series 2001 bonds exchanged	\$55,005,000
NYCTT II Series 2001 bonds refunded	\$19,685,000
NYCTT V Series 2005 (S1, S2, S4A) bonds refunded	\$11,674,474
NYCTT V Series 2005 (S1, S2, S4A) bonds repurchased	\$35,142,650

The total OTASC bond principal and interest outstanding as of December 31, 2016 is as follows:

<b>OTASC Series 2005</b>			
<b>Year</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
<b>2054</b>	\$ 10,478,246	\$ 128,841,754	\$ 139,320,000
<b>Total</b>	<u>\$ 10,478,246</u>	<u>\$ 128,841,754</u>	<u>\$ 139,320,000</u>

<b>OTASC Series 2016</b>			
<b>Year</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
<b>2017</b>	\$ 420,000	\$ 5,536,171	5,956,171
<b>2018</b>	985,000	5,107,716	6,092,716
<b>2019</b>	960,000	5,053,013	6,013,013
<b>2020</b>	1,245,000	4,990,997	6,235,997
<b>2021</b>	1,320,000	4,918,856	6,238,856
<b>2022-2026</b>	7,860,000	23,353,406	31,213,406
<b>2027-2031</b>	10,380,000	20,800,219	31,180,219
<b>2032-2036</b>	12,965,000	17,494,122	30,459,122
<b>2037-2041</b>	16,080,000	13,341,525	29,421,525
<b>2042-2046</b>	19,705,000	8,471,336	28,176,336
<b>2047-2051</b>	23,670,000	3,070,750	26,740,750
<b>Total</b>	<u>\$ 95,590,000</u>	<u>\$ 112,138,111</u>	<u>\$ 207,728,111</u>

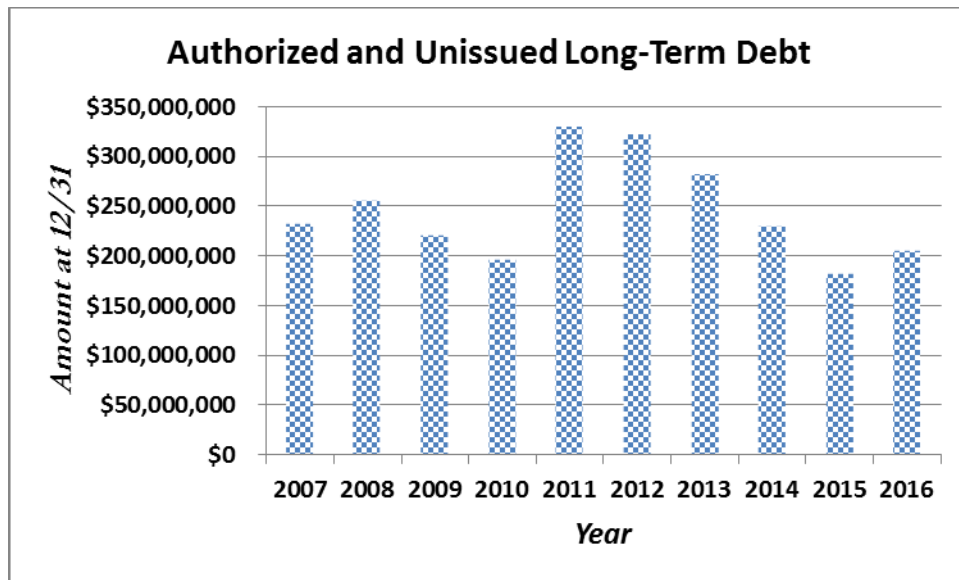
<b>Total OTASC Series 2005 &amp; 2016 as of 12/31/16</b>	<u>\$ 106,068,246</u>	<u>\$ 240,979,865</u>	<u>\$ 347,048,111</u>
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OTASC has a Reserve for Bonded Debt (RBD) balance of \$6,502,561 as of December 31, 2016, restricted to subsidize future payment of the bond principal and interest.

In the Analysis of Overall Financial Position on page 8 of the 2016 OTASC Financial Statements, it states that there is an increase to the Corporation's net position. This increase resulted from the settlement upon termination of the Forward Delivery Agreement (FDA) that was in place for funds held in reserve for the NYCTT II Series 2001 debt. The settlement resulted in a payment of \$5,069,500 to the Corporation, representing the present value of the projected interest that would have been earned had the agreement not been terminated at the refunding of the senior Series 2001 bonds.

## Authorized and Unissued Debt

As of December 31, 2016, the authorized, unissued debt amount for Onondaga County was \$205,092,364, with \$144,041,922 attributed to Water Environment Protection. Authorized, unissued bonds are those authorized by the Onondaga County Legislature, but not yet issued for their respective projects. See Exhibit A for 2016 detail.



**Exhibit A - 2016 Authorized/Unissued Debt**

COUNTY OF ONONDAGA

7/17/2017

**G/L 188 - AUTHORIZED/UNISSUED Long Term Debt Group of Accounts**

Subsid Acct	Subsidiary Account Title	Department	Auth Reso Number and Date	12/31/2015 Balance	2016 Borrowings	St & Fed Aid/ other funds EFC, Adjs. & Closed Proj	2016 Authorizations	Current 2016 Balance
510001	Tax Collect & Deliq Software	Finance	BR-212 12/14	-				0.00
512558	New Criminal Courthouse	Fac Mgmt	224/98, 333/98, 117/00, 227&229/00, 118/01	0.00				0.00
512575	Energy Performance Contract	Fac Mgmt	283-12/03, 170-8/04, 116 6/05, 225-11/1/05	0.00				0.00
512578	Courthouse Exterior Rehab.	Fac Mgmt	204-10/06	0.00				0.00
512581	Oncenter Complex Rehab/Renov	Fac Mgmt	BR-207-9/08, 043-4/09	0.00				0.00
512585	BOE Office Building Purch/Renov	Fac Mgmt	BR-197-9/10	0.00				0.00
512588	Justice Center Roof Replacement	Fac Mgmt	BR-506 10/11	0.00				0.00
512589	CC Windows Systems Replacement	Fac Mgmt	BR-506 10/11	0.00				0.00
512590	Ed Kochian COB Rehab & Renov	Fac Mgmt	BR-506 '11 BR-217 '12 BR221 '14	637,469.00		(44,366.00)		593,103.00
512591	CC Office & Masonry Improvements	Fac Mgmt	BR-506 '11 217 '12 221 '14 97 '16	554,974.00			801,000.00	1,355,974.00
512592	Downtown Campus Various Imp	Fac Mgmt	BR-506 '11 BR-217 '12 221 '14 97 '16	695,000.00			1,100,000.00	1,795,000.00
512593	Community Plaza & Walks Renov	Fac Mgmt	BR-506 10/11	0.00				0.00
512594	Courthouse Sidewall Copper Flashing	Fac Mgmt	BR-506 10/11	424,821.00				424,821.00
512595	Community Plaza Garage	Fac Mgmt	BR-217 12/12	0.00				0.00
512596	Remodeling TA Intake	Fac Mgmt	BR-217 12/12	189,000.00				189,000.00
512597	OnCenter Rehabilitation	Fac Mgmt	BR-217 12/12 97 '16	500,000.00	500,000.00		1,500,000.00	1,500,000.00
512598	Civic Center Re-Roof	Fac Mgmt	BR-97 6/16	0.00			1,383,000.00	1,383,000.00
512599	CFS Rehab/Renov	Fac Mgmt	BR-97 6/16	0.00			335,000.00	335,000.00
512600	Courthouse HVAC Renov	Fac Mgmt	BR-97 6/16	0.00			400,000.00	400,000.00
591743	Document Management System	County Clerk	BR-87 '16	0.00			600,000.00	600,000.00
592661	Land Purchase for Hotel	Fac Mgmt	117/2001	1,286,924.00	1,286,924.00			0.00
592674	PeopleSoft	IT	BR-127 6/10	0.00				0.00
592675	VOIP Assessment	IT	BR-485 10/11	0.00				0.00
592676	IT Project	IT	BR-510 10/11	0.00				0.00
592678	Enterprise Resource Plan Financials Up	IT	BR-012 2/16	0.00		(775,000.00)	775,000.00	0.00
514002	Van Duyn Capital Projects	Van Duyn	BR-64 4/09	1,630,732.00				1,630,732.00
514004	Demolition of S1 Building	Van Duyn	BR-251 12/18/12	1,500,000.00				1,500,000.00
522692	Pratts Falls Recovery	Parks & Rec	BR-245 & BR-247 12/07	0.00				0.00
522695	Bank Stadium Natural Grass	Parks & Rec	BR-120 7/07	0.00				0.00
522696	PFT 2 - OLP Marina	Parks & Rec	BR-247 12/07	2,000.00				2,000.00
522697	PFT 2 - New Elephant Exhibit	Parks & Rec	BR-238 12/07	0.00				0.00
522698	PFT 2 - Primate Island Exhibit	Parks & Rec	BR-238 12/07	0.00				0.00
522699	PFT 2 - Zoo Improvements	Parks & Rec	BR-238 12/07	0.00				0.00
522701	PFT 2 - OS Improvements	Parks & Rec	BR-247 12/07	0.00				0.00
522702	PFT 2 - OS Playground	Parks & Rec	BR-247 12/07	0.00				0.00
522703	PFT 2 - Oneida Boat Launch Imp	Parks & Rec	BR-247 12/07	0.00				0.00
522704	PFT 2 - Pratts Falls Masonry	Parks & Rec	BR-247 12/07	0.00				0.00
522706	PFT 2 - Project Manager	Parks & Rec	BR-238 & BR-247 12/07	0.00				0.00
522707	PFT 2 - Onondaga Lake Park	Parks & Rec	BR-247 12/07	0.00				0.00
522719	2010 Parks Roofs	Parks & Rec	BR-199 9/10	0.00				0.00
522721	Parks Improvement & Maintenance	Parks & Rec	BR-507 10/11	0.00				0.00
522722	Parks Roads/Parking/Trail Paving	Parks & Rec	BR-507 10/11 BR-174 11/12	1,210,699.36	700,000.00			510,699.36
522723	Parks Main Office Environ Imp	Parks & Rec	BR-507 10/11	0.00				0.00
522724	Zoo Preventive Maintenance	Parks & Rec	BR-507 10/11	0.00				0.00

 2016 Debt  
 Stmt 2016 GL188

**Exhibit A - 2016 Authorized/Unissued Debt**
**COUNTY OF ONONDAGA**

7/17/2017

**G/L 188 - AUTHORIZED/UNISSUED Long Term Debt Group of Accounts**

Subsid Acct	Subsidiary Account Title	Department	Auth Reso Number and Date	12/31/2015 Balance	2016 Borrowings	St & Fed Aid/ other funds EFC, Adj. & Closed Proj	2016 Authorizations	Current 2016 Balance
522726	Zoo HVAC Rehabilitation	Parks & Rec	BR-174 11/12	0.00				0.00
522733	Onondaga Lake W. Shore Revitalization	Parks & Rec	BR-172 11/14	0.00				0.00
522735	Parks Various Improvements	Parks & Rec	BR-009 2/16	0.00	2,921,000.00		2,921,000.00	0.00
522737	Zoo Boardwalk Replacement	Parks & Rec	BR-132 8/16	0.00			1,005,000.00	1,005,000.00
522738	Salt Museum Improvements	Parks & Rec	BR-133 8/16	0.00			290,000.00	290,000.00
522739	Parks Shoreline Stabilization	Parks & Rec	BR-250 12/16	0.00			756,000.00	756,000.00
522740	Parks Roof Replacement	Parks & Rec	BR-251 12/16	0.00			569,000.00	569,000.00
531556	Corrections-Phys Plant Imp	Corrections	289-12/16/02	0.00				0.00
535010	Various Co Rd Imp	Highway	163-5/00, 97-01,111-03,114-04 81-5/12	0.00				0.00
535011	Syr-Cedarvale Rd. Phase 2	Highway	71-5/06 less sb rev from 535070-008	0.00				0.00
535012	Thompson Rd.	Highway	71-5/06, 111-5/08, 80 5/14	440,000.00				440,000.00
535013	Fly Rd. Phase 1 Design	Highway	79-5/07, 111-5/08	0.00				0.00
535020	County Bridges	Highway	164-00,99-01,111-03,113-04,97-05	0.00				0.00
535021	Bridges '06	Highway	71-5/06	0.00				0.00
535024	Warners Rd Bridge-Construction	Highway	BR-77 & 78 5/5/09	0.00				0.00
535025	Various Co Rd Imp	Highway	163-5/00, 97-01,111-03,114-04,98-05	0.00				0.00
535026	Fed Aid Local Match	Highway	71-5/06	500,000.00				500,000.00
535028	Bridges '07	Highway	78-5/07	0.00				0.00
535029	Various Co Rd Imp	Highway	79-5/07	307,000.00				307,000.00
535030	Various Co Rd Imp	Highway	163-5/00, 97-01,111-03,114-04	0.00				0.00
535031	Traffic Systems Mgmt '06	Highway	71-5/06	0.00				0.00
535032	Traffic Systems Mgmt '06	Highway	79-5/07	0.00				0.00
535033	Fed Aid Local Match '09	Highway	BR-78 5/09	0.00				0.00
535034	2010 Fed Aid Local Match (Temp)	Highway	BR-88 5/10	0.00				0.00
535035	2011 Fed Aid Local Match (Temp)	Highway	BR-401 5/11	0.00				0.00
535036	2012 Fed Aid Local Match (Temp)	Highway	BR-81 5/12	0.00				0.00
535039	Camillus Highway Facility Imp	Highway	BR-249 12/16	0.00			8,500,000.00	8,500,000.00
535040	Various Co Rd Imp	Highway	163-5/00, 97-01,111-03,114-04,98-05	0.00				0.00
535041	Paving '06	Highway	71-5/06	0.00				0.00
535042	Paving '07	Highway	79-5/07	0.00				0.00
535055	Various Co Rd Imp	Highway	163-5/00, 97-01,111-03,114-04,98-05	0.00				0.00
535056	Cold Mix -Mulch '06	Highway	71-5/06	0.00				0.00
535057	Cold Mix -Mulch '07	Highway	79-5/07	0.00				0.00
535060	Various Co Rd Imp	Highway	95-5/6/96,111-03	0.00				0.00
535070	Various Co Rd Imp	Highway	163-5/00, 97-01,111-03,114-04,111-08	400,000.00				400,000.00
535100	Green Design	Highway	BR-81 5/12	0.00				0.00
535101	Electronics Pky Green Design	Highway	BR-81 5/12	200,000.00				200,000.00
535103	Caughdenoy-Ec.Dev.-Design	Highway	BR-165 10/9/12	530,000.00				530,000.00
535104	2015 Sign Replacement Project	Highway	BR-72 5/15	200,000.00	100,000.00			100,000.00
535150	Velasko Rd-Construction	Highway	111-5/08, 401-5/11- 81 5/12	30,000.00				30,000.00
535151	Old Rte 5 Repaving Ph 1	Highway	111-5/08, 401-5/11- 81 5/12	25,000.00				25,000.00
535152	Buckley Rd CSX RR Design	Highway	BR111-5/08, 88 -5/10, 401-5/11, 65-5/13	125,000.00	125,000.00			0.00
535153	Civic Strip	Highway	100-6/09	68,000.00				68,000.00
535154	Jamesville Rd Paving	Highway	BR100-6/09, 88-5/10	0.00				0.00

2016 Debt  
Stmt 2016 GL188

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COUNTY OF ONONDAGA

7/17/2017

**G/L 188 - AUTHORIZED/UNISSUED Long Term Debt Group of Accounts**

Subsid Acct	Subsidiary Account Title	Department	Auth Reso Number and Date	12/31/2015 Balance	2016 Borrowings	St & Fed Aid/ other funds EFC, Adjs. & Closed Proj	2016 Authorizations	Current 2016 Balance
535155	2010 Bridge Painting	Highway	BR100-6/09, 88-5/10	0.00				0.00
535156	Fremont Rd Bridge/CSX-Design	Highway	BR100-6/09, 88-5/10, 401-5/11	0.00				0.00
535157	Northern Blvd Safety/Paving	Highway	BR-88 5/10-BR-65 5/13	50,000.00				50,000.00
535158	2010 Traffic Signals	Highway	BR-88 5/10, 401-5/11, 65 5/13, 80 6/14	0.00				0.00
535159	Fly Rd Paving-Design	Highway	BR-88 5/10- 81 5/12 ,65 5/13	0.00				0.00
535160	South Bay Rd Paving-Design	Highway	BR-88 5/10-BR-65 5/13	0.00				0.00
535161	Allen Rd Paving-Design	Highway	38 5/10, 401-5/11, 65 5/13, 80 6/14, 72 5/15, 78 5/16	190,000.00	190,000.00		25,000.00	25,000.00
535162	Old Liverpool/Elec Pky Design	Highway	BR-88 5/10- 81 5/12 ,65 5/13, 72 5/15	5,000.00				5,000.00
535163	Jordan RD Bridge Proj Design	Highway	BR-88 5/10- BR-65 5/13, 72 5/15	11,500.00	11,500.00			0.00
535164	Rural paving - Construction	Highway	BR-401 5/11	0.00				0.00
535165	Costello Pky/ CSX Construction	Highway	BR-401 5/11	0.00				0.00
535166	Bridge Maint Ph I-Design	Highway	BR-65 5/13 BR-72 5/15	76,000.00	20,000.00			56,000.00
535167	Oran Delphi Rd Bridge Design	Highway	BR-65 5/13, 78 5/16	30,000.00	30,000.00		67,500.00	67,500.00
535168	John Glenn Blvd Bridge-Design	Highway	BR-65 5/13 BR-72 5/15, 78 5/16	366,500.00			87,500.00	454,000.00
535169	ElecPkyw Signal Interco	Highway	BR-65 5/13 BR-72 5/15	75,000.00	20,000.00			55,000.00
535170	Willis Ave over CSX	Highway	BR-65 5/13	150,000.00	150,000.00			0.00
535171	Otisco Valley Rd Bridge	Highway	BR-80 5/14, 78 5/16	25,000.00	25,000.00		68,000.00	68,000.00
535172	Old Rte 5 & Warners Paving Design	Highway	BR-80 5/14	50,000.00	50,000.00			0.00
535173	Fremont Butternut Creek-Design	Highway	BR-80 5/14, 78 5/16	60,000.00	60,000.00	(4,000.00)	4,000.00	0.00
535174	Electronics Pky Paving Design	Highway	BR-80 5/14	63,000.00	63,000.00			0.00
535175	John Glenn & Kirkville Rd Paving	Highway	BR-80 5/14, 78 5/16	90,000.00			175,000.00	265,000.00
535176	Morgan @ Ver Plank Safety Design	Highway	BR-80 5/14	40,000.00				40,000.00
535177	Taft Rd 2R Paving Design	Highway	BR-80 5/14, 78 5/16	75,000.00	75,000.00		8,000.00	8,000.00
535178	Bridge Maint Ph II-Design	Highway	BR-80 5/14 BR-72 5/15	69,000.00				69,000.00
535179	Old Rt 57 2R Paving Design	Highway	BR-80 5/14 BR-72 5/15	104,000.00	104,000.00			0.00
535180	Tully Farms Rd Bridge Design	Highway	BR-80 5/14	25,000.00	25,000.00			0.00
535181	Benson Road Bridge	Highway	BR-72 5/15, 78 5/16	64,000.00	64,000.00		65,000.00	65,000.00
535182	Bridge Painting Project	Highway	BR-72 5/15	37,000.00	37,000.00			0.00
535183	Buckley Road Paving (1R)	Highway	BR-72 5/15	34,000.00	34,000.00			0.00
535184	West Taft Rd Paving (1R)	Highway	BR-72 5/15	60,000.00	60,000.00			0.00
535185	Old Rt 57 1R Paving Design	Highway	BR-78 5/16	0.00			80,000.00	80,000.00
535188	Canalway Trail Extension	Highway	BR-78 5/16	0.00		(600,000.00)	600,000.00	0.00
535250	Morgan Rd/E. Waterhouse RD	Highway	111-5/08	0.00				0.00
535253	TSM '09-Traffic Signal Upgrades	Highway	BR-77 & 78 5/5/09	0.00				0.00
535254	TSM '09-Hopkins Rd @ Buckley	Highway	BR-77 & 78 5/5/09	0.00				0.00
535255	TSM '09-Carrier Site Access	Highway	BR-77 & 78 5/5/09	50,000.00				50,000.00
535256	TSM '10-Traffic Signal Upgrades	Highway	BR-88 5/10	0.00				0.00
535257	TSM-Allen/Bear Rd Traffic Study	Highway	BR-88 5/10- 81 5/12	0.00				0.00
535258	TSM '12-Traffic Design	Highway	BR-81 5/12	50,000.00	50,000.00			0.00
535260	Traffic Engineering & Traffic Counts	Highway	BR-80 5/14	0.00				0.00
535261	TSM '15 Traffic Signal Upgrade	Highway	BR-72 5/15	310,000.00	310,000.00			0.00
535262	TSM '16 Traffic Signal Upgrade	Highway	BR-78 5/16	0.00			320,000.00	320,000.00
535275	Cold Mix-Mulch '08	Highway	111-5/08	0.00				0.00
535276	Cold Mix-Mulch '09	Highway	Br-77 & 78 5/5/09	0.00				0.00

 2016 Debt  
 Stmt 2016 GL188



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COUNTY OF ONONDAGA

7/17/2017

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535277	Cold Mix-Mulch '10	Highway	BR-88 5/10	0.00				0.00
535278	Cold Mix-Mulch '11	Highway	BR-401 5/11	0.00				0.00
535279	Cold Mix-Mulch '12	Highway	BR-81 5/12	0.00				0.00
535280	Cold Mix-Mulch '13	Highway	BR-65 5/13	0.00				0.00
535281	Cold Mix Bituminous Reconstruction	Highway	BR-80 5/14	0.00				0.00
535282	2015 Cold Mix Bituminous Reco	Highway	BR-72 5/15	1,240,000.00	1,240,000.00			0.00
535283	2016 Cold Mix Bituminous Reco	Highway	BR-78 5/16	0.00			1,250,000.00	1,250,000.00
535290	Misc 2013 Paving	Highway	BR-65 5/13	0.00				0.00
535325	Bridges '08	Highway	110-5/08	0.00				0.00
535326	Bridges '09	Highway	BR-77 5/5/09	0.00				0.00
535327	Bridges '10	Highway	BR-88 5/10	0.00				0.00
535328	Bridges '11	Highway	BR-400 5/11	0.00				0.00
535329	Bridges '12	Highway	BR-80 5/12	0.00				0.00
535330	Bridges '13	Highway	BR-65 5/13	0.00				0.00
535331	Bridges '14	Highway	BR-80 5/14	800,000.00	800,000.00			0.00
535332	Bridges '15	Highway	BR-73 5/15	840,000.00				840,000.00
535533	Bridges 2016-Bond	Highway	BR-077 5/16	0.00			880,000.00	880,000.00
535350	Repaving '08	Highway	111-5/08	0.00				0.00
535351	Repaving '09	Highway	BR-77 & 78 5/5/09	0.00				0.00
535352	Repaving '10	Highway	BR-88 5/10	0.00				0.00
535353	Repaving '11	Highway	BR-401 5/11	0.00				0.00
535354	Repaving '12	Highway	BR-81 5/12	0.00				0.00
535355	Repaving '13	Highway	BR-65 5/13	0.00				0.00
535356	Hot Mix Bituminous Paving	Highway	BR-80 5/14	0.00				0.00
535357	2015 Hot Mix Bituminous Paving	Highway	BR-72 5/15	3,385,000.00	3,385,000.00			0.00
535358	2016 Hot Mix Bituminous Paving	Highway	BR-78 5/16	0.00			3,170,000.00	3,170,000.00
535476	Facilities Environ Improvements	Highway	09-2/09	0.00				0.00
535478	Buckley Morgan Land Acq&Dsgn	Highway	BR-175 9/09	0.00				0.00
535481	Heavy Equipment Purchase	Highway	BR-234 10/10	0.00				0.00
535484	Replace No Area & Camillus Mtce. Facil.	Highway	BR-035 3/13	0.00				0.00
536031	EAB Strategic Implementation	Environment	BR-015 2/16	0.00	750,000.00		1,500,000.00	750,000.00
536238	Jamesville Bldg Const	Highway	363-12/4/00, 310-12/3/01	0.00				0.00
536245	North Area Salt Shed '06	Highway	114-3/06	0.00				0.00
536506	Velasko Rd-Safety Design	Highway	BR-80 5/14	0.00				0.00
536509	Factory@Lemoyne-Construction	Highway	BR88-5/10- 81 5/12	0.00				0.00
536511	E. Taft Rd. Construction	Highway	111-5/08	0.00				0.00
536513	Morgan/Liverpool Bypass	Highway	111-5/08	0.00				0.00
536514	Patcher Truck	Highway	BR-508 10/11	0.00				0.00
551518	E-911 Upgrades	Emer Comm	125-6/7/05	0.00				0.00
551519	E-911 Microwave Trans Net	Emer Comm	37-3/06	0.00				0.00
551520	Interoperable Communication Sys	Emer Comm	248-12/07	0.00				0.00
551521	Computer Aided Dispatch Refresh	Emer Comm	BR-509 10/11	0.00				0.00
551525	Furniture Consoles & Carpeting	Emer Comm	BR-91 6/4/13	0.00				0.00
551526	Main Center HVAC System Replace	Emer Comm	BR-217 12/14	0.00			1,788,852.00	1,788,852.00

 2016 Debt  
 Stmt 2016 GL188

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COUNTY OF ONONDAGA

7/17/2017

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551527	E-911 Center Facility Rehabilitation	Emer Comm	BR-033 2/16	0.00				0.00
551528	Replace MDCN Infrastructure	Emer Comm	BR-034 2/16	0.00		(100,000.00)	100,000.00	0.00
551529	E-911 Center Roof Replacement	Emer Comm	BR-245 12/16	0.00		(245,000.00)	245,000.00	0.00
551560	Correctional Facility Various Imp	Corrections	BR-63 3/08	0.00			303,000.00	303,000.00
552343	Hillbrook Renovation	Hillbrook	143-7/5/05	0.00				0.00
552498	Special Opertions Facility Replacement	Sheriff	BR-185 11/12	0.00				0.00
552499	Behavioral Health Unit @ Justice Center	Sheriff	BR-173 11/12	100,000.00				100,000.00
782211	Thoreck Judgment	Sheriff	BR-152 10/14	0.00				0.00
561848	Applied Tech Center	OCC	148-06/06/94	0.00				0.00
561860	OCC Master Plan	OCC	04-1/5/04	0.00				0.00
561861	OCC facilities Master Plan	OCC	215-11/1/05	0.00				0.00
561862	OCC Indoor Sports Arena	OCC	172-8/08	0.00				0.00
561863	OCC Mawhinney Hall	OCC	172-8/08	0.00				0.00
561864	OCC All Purpose Field	OCC	172-8/08	0.00				0.00
561865	OCC HPE Building Renov & Exp	OCC	172-8/08	0.00				0.00
561866	OCC Site Improvements	OCC	172-8/08	0.00				0.00
561867	OCC Science Labs	OCC	172-8/08	0.00				0.00
561868	OCC Other Improvements	OCC	172-8/08	0.00				0.00
561870	Ferrante Hall Add & Renov	OCC	171-9/09	0.00				0.00
561871	Site Improvements	OCC	105-6/12	205.00				205.00
561872	Technology Improvements	OCC	105-6/12	0.00				0.00
561873	Campus Wide Energy Projects	OCC	105-6/12	0.00				0.00
561874	Athletic Fields	OCC	105-6/12	0.00				0.00
561875	W. Quad Renov:Ferrante/Coulter	OCC	BR92-6/15	8,800,000.00	5,000,000.00			3,800,000.00
562130	OCPL Int. Library System	Library	321-12/19/06	0.00				0.00
562133	OCPL Galleries Roof	Library	233-10/14/08	0.00				0.00
562136	Branches Comp Infrastructure	Library	198-10/09	0.00				0.00
562137	Central Library Reconfiguration	Library	BR-494-10/11	0.00				0.00
575086	Eastern Branch Pipeline	MWB	190-9/2/2003, 104-5/3/05	0.00				0.00
575090	Terminal Reservoir Tanks	MWB	BR412-5/11	8,871,287.00	1,060,000.00	(231,731.00)		7,579,556.00
575104	Comp Energy & Asset Renewal	MWB	BR590 12/11	7,500,000.00				7,500,000.00
575107	Water Treatment Assurance Program	MWB	BR214 12/15	5,472,000.00				5,472,000.00
587301	Trunk Sewer Imp	WEP	103-5/2/1994	0.00				0.00
587354	Oak Orchard	WEP	147-6/1/98	0.00				0.00
587372	Syr & Geddes Conv Sys Imp	WEP	160-06/04/01	0.00				0.00
587373	Wetzel Rd WWTP	WEP	300-11/05/01, br146-8/1/06, 78-5/13	302.00		(302.00)		0.00
587375	Metro Screen Eval & Repair	WEP	BR 81 4/5/2005	0.00				0.00
587383	Env Lab & Flow Control	WEP	BR 75 4/1/02, BR 292 12/6/02	0.00				0.00
587384	L'pool Pump Station Imp	WEP	Budget letter 5/7/02	0.00				0.00
587385	B'ville/Seneca Knolls WWTP	WEP	Budget letter 5/7/02	0.00				0.00
587390	M'Brook Limestone WTP Imp	WEP	BR 48 & 49 3/1/05	0.00				0.00
587394	Metro LLPS Replacement	WEP	BR 247 11/8/06	0.00				0.00
587398	Biosolids Handling Imp	WEP	BR144-07/2004	0.00				0.00
587510	M'Brook Drainage District	WEP	BR 286 - 12/20/05	0.00				0.00

 2016 Debt  
 Stmt 2016 GL188

**Exhibit A - 2016 Authorized/Unissued Debt**

COUNTY OF ONONDAGA

7/17/2017

**G/L 188 - AUTHORIZED/UNISSUED Long Term Debt Group of Accounts**

Subsid Acct	Subsidiary Account Title	Department	Auth Reso Number and Date	12/31/2015 Balance	2016 Borrowings	St & Fed Aid/ other funds EFC, Adjs. & Closed Proj	2016 Authorizations	Current 2016 Balance
587521	Pump Station Improvements	WEP	BR 45 3/6/07	0.00				0.00
587532	Trunk Sewer Force Main Proj	WEP	BR 88 5/1/07	0.00				0.00
587539	Bear Trap Ley Creek Drainage	WEP	BR-93 5/10	0.00				0.00
587554	Digester Cleaning & Repairs	WEP	BR-51 3/10	0.00				0.00
587563	Westside Pumping Station Service Area	WEP	BR-230 12/14 97 '16	800,000.00	800,000.00		13,700,000.00	13,700,000.00
587583	Purchase of Heavy Equipment	WEP	BR-524 11/11	0.00				0.00
587584	Electronics Park Trunk Sewer	WEP	BR-526 11/11	4,653,764.00				4,653,764.00
587585	Metro WWTP Grit Handling	WEP	BR-528 11/11	526,558.80	300,000.00			226,558.80
587586	Oak Orchard	WEP	BR-530 11/11	10,905,000.00				10,905,000.00
587592	Ley Creek Pump Station	WEP	BR-230 12/14	4,980,000.00	103,000.00			4,877,000.00
587597	Suburban Green Infrastructure Imp	WEP	BR-115 7/12, BR-135 9/13, BR-127 8/15	2,980,000.00	1,488,531.00			1,491,469.00
587598	Oneida Lake PS	WEP	BR-230 12/12, BR212 12/15	9,020,000.00				9,020,000.00
587599	Metro WWTP Bypass Treatment	WEP	BR-227 12/12, 100-6/15	24,927,294.00				24,927,294.00
587600	Metro WWTP Primary Pump Replace	WEP	BR-225 12/12	1,100,000.00		(85,036.92)		1,014,963.08
587601	Metro WWTP Phos Treatment Sys	WEP	BR-223 12/12	2,438,000.00	1,026,693.00			1,411,307.00
587608	Hiawatha Trunk Sewer Service Area Imp	WEP	BR-286 12/14	2,500,000.00				2,500,000.00
587614	Baldwinsville Seneca Knolls WWTP	WEP	BR-226 12/14	3,400,000.00	265,000.00			3,135,000.00
587622	WEP Energy Projects (ESCO)	WEP	BR-58 4/16				10,300,000.00	10,300,000.00
587946	LP Newell St RTF	WEP	61-3/2/98	0.00				0.00
587947	LP Metro Digital	WEP	61-3/2/98	0.00				0.00
587948	LP ACJ Midland Ave	WEP	64-3/98, 354-12/00, 51-3/08, 248-12/13, 160-10/16	37,333,795.23	621,422.00	(111,527.36)	(3,700,000.00)	32,900,845.87
587949	LPACJ Maltbie/Teall/Harborbrook	WEP	64-3/2/98	0.00				0.00
587950	LP ACJ Onondaga Creek	WEP	64-3/2/98	0.00				0.00
587951	LP ACJ Franklin	WEP	64-3/2/98, 217-8/6/2001	0.00				0.00
587952	LP ACJ Oxygenation Demo	WEP	64-3/2/98	0.00				0.00
587953	LP ACJ Kirkpatrick	WEP	64-3/2/98, 103-5/6/02	0.00				0.00
587956	LPACJ West St	WEP	171-7/6/98, 29-3/1/99	0.00				0.00
587958	LP ACJ Erie Blvd	WEP	164-7/6/99	0.00				0.00
587959	LP ACJ Harbor Brook In Water	WEP	164-7/6/99, 114-6/09, 291-12/10, 388-4/11 181-11/16	1,143,802.59	100,226.00		3,700,000.00	4,743,576.59
587960	LP ACJ Clinton St RTF	WEP	231-9/7/99, 90 5/1/07, 387-4/11, 247-12/13	23,544,913.12	6,435,419.00			17,109,494.12
587961	LP ACJ Full Scale Amm/Phosp	WEP	370-12/20/99	0.00				0.00
587962	LP ACJ Phos Removal Pilot	WEP	370-12/20/99	0.00				0.00
587963	LP ACJ Sewer Separation	WEP	358-12/4/00, 116-6/09, 148-6/10	1,125,649.10				1,125,649.10
587964	LP Lake Partnership - Fed	WEP	358-12/4/01	0.00				0.00
587968	Sanitary Dist Imp	WEP	18-2/3/03	0.00				0.00
587979	Midland WWTP Mitigation Costs	WEP	BR-53 3/08	0.00				0.00
588609	J'ville Pen Sewer Pump Station	WEP	241-09/04/01	0.00				0.00
<b>TOTAL</b>				<u>182,004,190.20</u>	<u>30,386,715.00</u>	<u>(2,196,963.28)</u>	<u>55,671,852.00</u>	<u>205,092,363.92</u>
				Serial Bonds	26,500,000.00			
				EFC Loans	3,886,715.00			
					<u>30,386,715.00</u>			

 2016 Debt  
 Stmt 2016 GL188

**Exhibit B - Onondaga County General Obligation Bonds Issuance Costs**  
**2005 - 2016**

	2016 Refunding <sup>1</sup>	2016 GO	2015 QECB <sup>1</sup>	2015 Refunding <sup>1</sup>	2015 GO	2014 Refunding <sup>1</sup>	2014 GO	2013 GO	2012 Refunding	2012 GO
<b>Variable Costs:</b>										
<u>Rating Agencies</u>										
Moody's		\$25,000			\$38,000		\$16,593	\$28,000	\$7,552	\$26,500
Fitch		26,000			43,000		25,000	25,000	6,554	23,000
S&P		24,000			42,000		15,955	33,000	7,124	25,000
Orrick - attorney fee		29,275			58,915		35,405	44,825	32,000	42,230
Bond Buyer (Source Media)		1,045			1,045		1,160	1,045		1,005
IPREO / I-Deal LLC		1,500			1,500		1,500			1,500
Verification agent										
Syracuse Newspapers		105			120		112	103		112
<b>Total Variable Costs</b>	<b>0</b>	<b>106,925</b>	<b>0</b>	<b>0</b>	<b>184,580</b>	<b>0</b>	<b>95,725</b>	<b>131,973</b>	<b>53,230</b>	<b>119,347</b>
<b>Fixed Costs:</b>										
Fiscal Advisors		32,190			55,000		36,600	48,935	9,850	41,700
Internet										
Printing		1,292			1,523		1,582	1,658	1,500	1,553
TMD (new in 2013)					1,500		3,000	2,000		
<b>Total Fixed Costs</b>	<b>0</b>	<b>33,482</b>	<b>0</b>	<b>0</b>	<b>58,023</b>	<b>0</b>	<b>41,182</b>	<b>52,593</b>	<b>11,350</b>	<b>43,253</b>
<b>Other Costs:</b>										
Total Cost of Issuance	141,000		177,553	71,000		78,000				
Underwriter	98,684		37,282	41,728						
GFA										
<b>Total Other Costs</b>	<b>239,684</b>	<b>0</b>	<b>214,835</b>	<b>112,728</b>	<b>0</b>	<b>78,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total - Bond Issuance Costs</b>	<b>\$239,684</b>	<b>\$140,407</b>	<b>\$214,835</b>	<b>\$112,728</b>	<b>\$242,603</b>	<b>\$78,000</b>	<b>\$136,907</b>	<b>\$184,566</b>	<b>\$64,580</b>	<b>\$162,599</b>
<b>Bond Amount</b>	<b>\$35,885,000</b>	<b>\$26,500,000</b>	<b>\$2,650,000</b>	<b>\$11,370,000</b>	<b>\$79,900,000</b>	<b>\$19,600,000</b>	<b>\$34,800,000</b>	<b>\$67,870,000</b>	<b>\$20,615,000</b>	<b>\$51,425,000</b>
<b>Bond Issuance costs as a Percent of Bond Amount</b>	<b>0.67%</b>	<b>0.53%</b>	<b>8.11%</b>	<b>0.99%</b>	<b>0.30%</b>	<b>0.40%</b>	<b>0.39%</b>	<b>0.27%</b>	<b>0.31%</b>	<b>0.32%</b>

<sup>1</sup> Note: Bond Issuance costs were paid directly by the bond underwriters; a detailed breakdown of the costs is not available.

**Exhibit B - Onondaga County General Obligation Bonds Issuance Costs**  
**2005 - 2016**

	2011 Refunding	2010 GO	2009 Refunding	2009 GO	2007 GO	2006 GO	2005 GO	Total
<b>Variable Costs:</b>								
Rating Agencies								
Moody's	\$17,000	\$14,300	\$15,600	\$21,500	\$8,500	\$15,750	\$8,500	\$242,795
Fitch	17,000	13,000	12,000	15,000	9,500	11,500	8,000	234,554
S&P	15,000	19,380	16,200	20,000	13,500	14,000	12,400	257,559
Orrick - attorney fee	36,300	57,225	30,275	52,130	31,575	35,845	29,955	515,955
Bond Buyer (Source Media)	1,005	2,010	2,500	1,005	948	920	1,000	14,688
IPREO / I-Deal LLC	1,500	1,500	1,500		1,500	1,500	1,500	15,000
Verification agent			3,700					3,700
Syracuse Newspapers	101	198		91	81	83	82	1,187
<b>Total Variable Costs</b>	<b>87,906</b>	<b>107,613</b>	<b>81,775</b>	<b>109,726</b>	<b>65,604</b>	<b>79,598</b>	<b>61,437</b>	<b>1,285,438</b>
<b>Fixed Costs:</b>								
Fiscal Advisors	35,000	42,500	29,900	32,500	21,500	23,500	23,500	432,675
Internet								0
Printing	1,529	1,330	2,434	2,788	3,736	3,635	4,294	28,854
TMD (new in 2013)								6,500
<b>Total Fixed Costs</b>	<b>36,529</b>	<b>43,830</b>	<b>32,334</b>	<b>35,288</b>	<b>25,236</b>	<b>27,135</b>	<b>27,794</b>	<b>468,029</b>
<b>Other Costs:</b>								
Total Cost of Issuance								467,553
Underwriter								177,694
GFA	45,000	57,983		88,000	88,000	88,000	88,000	454,983
<b>Total Other Costs</b>	<b>45,000</b>	<b>57,983</b>	<b>0</b>	<b>88,000</b>	<b>88,000</b>	<b>88,000</b>	<b>88,000</b>	<b>1,100,230</b>
<b>Grand Total - Bond Issuance Costs</b>	<b>\$169,435</b>	<b>\$209,427</b>	<b>\$114,109</b>	<b>\$233,014</b>	<b>\$178,840</b>	<b>\$194,734</b>	<b>\$177,231</b>	<b>\$2,853,697</b>
<b>Bond Amount</b>	<b>\$33,755,000</b>	<b>\$53,625,000</b>	<b>\$33,345,000</b>	<b>\$61,725,000</b>	<b>\$25,600,000</b>	<b>\$35,000,000</b>	<b>\$28,000,000</b>	<b>\$621,665,000</b>
<b>Bond Issuance costs as a Percent of Bond Amount</b>	<b>0.50%</b>	<b>0.39%</b>	<b>0.34%</b>	<b>0.38%</b>	<b>0.70%</b>	<b>0.56%</b>	<b>0.63%</b>	<b>0.46%</b>

**Exhibit C - EFC Administration Fees**

**ANNUAL ADMINISTRATION FEES  
EFC Loans**

<u>Year</u>	<u>2002G</u>	<u>2010C</u>	<u>2011A</u>	<u>2011C</u>	<u>2012B</u>	<u>2012E</u>	<u>2013B</u>	<u>2014B</u>	<u>2015D</u>	<u>2016B</u>	<u>Total</u>
2014	\$12,756	\$6,236	\$14,536	\$36,524	\$ 30,544	\$11,036	\$6,024	\$0	\$0	\$0	\$117,656
2015	11,772	5,924	12,323	34,586	29,218	10,450	5,200	368,754	0	0	\$478,227
2016	10,768	5,600	10,061	32,610	27,838	9,860	4,586	316,480	274,663	0	\$692,466
2017	9,738	5,274	7,761	30,560	26,436	9,274	3,962	306,354	165,911	3,048	\$568,318
2018	8,685	4,936	5,437	28,474	25,020	8,672	3,324	296,058	155,237	9,326	\$545,169
2019	7,609	4,600	3,049	26,312	23,580	8,062	2,674	285,572	144,361	8,924	\$514,743
2020	6,490	4,262	1,537	24,110	22,102	7,448	2,024	274,920	133,324	8,536	\$484,753
2021	5,351	3,900		21,872	20,562	6,810	1,362	264,106	122,074	8,136	\$454,173
2022	4,184	3,536		19,586	19,000	6,162	686	253,134	110,662	7,724	\$424,674
2023	3,647	3,174		17,562	17,686	5,650		241,980	99,073	7,312	\$396,084
2024	3,099	2,800		15,500	16,350	5,124		230,642	87,298	6,886	\$367,699
2025	2,518	2,412		13,412	14,986	4,586		219,146	78,012	6,448	\$341,520
2026	1,919	2,024		11,274	13,600	4,036		208,946	69,412	6,012	\$317,223
2027	1,302	1,636		9,100	12,186	3,486		198,582	60,937	5,562	\$292,791
2028	671	1,236		6,886	10,750	2,936		188,108	54,762	5,098	\$270,447
2029		824		4,636	9,286	2,374		177,486	48,512	4,636	\$247,754
2030		412		2,336	7,800	1,800		166,684	42,174	4,162	\$225,368
2031					6,286	1,212		155,746	35,762	3,674	\$202,680
2032					4,750	612		144,670	29,274	3,186	\$182,492
2033					3,186			133,472	22,700	2,686	\$162,044
2034					1,612			122,108	16,062	2,174	\$141,956
2035								110,596	9,350	1,636	\$121,582
2036								98,934	2,550	1,100	\$102,584
2037								87,108		550	\$87,658
2038								75,146			\$75,146
2039								63,046			\$63,046
2040								50,734			\$50,734
2041								38,258			\$38,258
2042								25,636			\$25,636
2043								12,882			\$12,882
	<b>\$90,509</b>	<b>\$58,786</b>	<b>\$54,704</b>	<b>\$335,340</b>	<b>\$342,778</b>	<b>\$109,590</b>	<b>\$29,842</b>	<b>\$5,115,288</b>	<b>\$1,762,110</b>	<b>\$106,816</b>	<b>\$8,005,763</b>

### Exhibit D - General Obligation Bonds Schedule of Principal Payments

[illegible]

### Exhibit D - General Obligation Bonds Schedule of Principal Payments

#	Project#	Project Description		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
760																									
587532-001	2006 TRUNK SEWER FORCE MAIN PR	WEP		70,000.00	80,000.00	80,000.00																			
587948-002	ACI MIDLAND AVE CONV ENG	WEP		50,000.00	50,000.00	50,000.00																			
587959-001	ACI HARBOR BROOK IN WATER TRMT	WEP		12,000.00	12,000.00	12,000.00																			
587959-002	ACI HARBOR BROOK IN WATER TRMT	WEP		48,000.00	48,000.00	48,000.00																			
587960-001	ACI CLINTON ST CONVEYANCES	WEP		-	-	-																			
587960-002	ACI CLINTON ST CONVEYANCES	WEP		85,000.00	95,000.00	95,000.00																			
Total	760			3,000,000.00	3,050,000.00	3,000,000.00																			
761																									
512581-001	ONCENTER COMPLEX REHAB/REONVAT	OnCenter		-	-	-	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00											
512581-002	ONCENTER COMPLEX REHAB/REONVAT	OnCenter		-	-	-	90,000.00	90,000.00	90,000.00	100,000.00	100,000.00	100,000.00	100,000.00	110,000.00											
514002-008	VAN DUYN CAPITAL PROJECTS	Van Duyn		-	-	-	330,000.00	-	-	-	-	-	-	-											
522697-001	PARKS FOR TOMORROW 2 - NEW ELE	Parks		-	-	-	105,000.00	152,000.00	135,000.00	135,000.00	152,000.00	146,000.00	152,000.00												
522698-001	PARKS FOR TOMORROW 2 - PRIMATE	Parks		-	-	-	20,000.00	28,000.00	25,000.00	25,000.00	28,000.00	27,000.00	28,000.00												
522699-001	PARKS FOR TOMORROW 2 - ZOO IMP	Parks		-	-	-	48,000.00	48,000.00	48,000.00	48,000.00	-	-	-	-											
522701-001	PARKS FOR TOMORROW 2 - ONEIDA	Parks		-	-	-	73,000.00	73,000.00	73,000.00	73,000.00	-	-	-	-											
522702-001	PARKS FOR TOMORROW 2 - OS PLAY	Parks		-	-	-	9,000.00	9,000.00	9,000.00	9,000.00	-	-	-	-											
522703-001	PARKS FOR TOMORROW 2 - OS BOAT	Parks		-	-	-	46,000.00	46,000.00	46,000.00	46,000.00	-	-	-	-											
522704-001	PARKS FOR TOMORROW 2 - PRATTS	Parks		-	-	-	5,000.00	5,000.00	5,000.00	5,000.00	-	-	-	-											
522706-001	PARKS FOR TOMORROW 2 - PROJECT	Parks		-	-	-	15,000.00	15,000.00	15,000.00	15,000.00	-	-	-	-											
522707-001	PARKS FOR TOMORROW 2 - OLP	Parks		-	-	-	14,000.00	14,000.00	14,000.00	14,000.00	-	-	-	-											
535012-001	THOMPSON RD.	Transportation		-	-	-	105,000.00	110,000.00	95,000.00	-	-	-	-	-											
535028-001	BRIDGES '07	Transportation		-	-	-	30,000.00	30,000.00	30,000.00	30,000.00	35,000.00	35,000.00	-	-											
535032-001	TRAFFIC SYSTEMS MGMT '07	Transportation		-	-	-	20,000.00	20,000.00	20,000.00	-	-	-	-	-											
535250-001	MORGAN RD/FAIRWAYS E/WATERHOU	Transportation		-	-	-	65,000.00	65,000.00	65,000.00	65,000.00	-	-	-	-											
535276-001	COLD MIX-MULCH '09	Transportation		-	-	-	288,000.00	288,000.00	288,000.00	309,000.00	330,000.00	288,000.00	-	-											
535277-001	COLD MIX-MULCH '10	Transportation		-	-	-	180,000.00	180,000.00	180,000.00	202,000.00	202,000.00	202,000.00	-	-											
535325-001	BRIDGES '08	Transportation		-	-	-	50,000.00	50,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	10,000.00											
535326-001	BRIDGES '09	Transportation		-	-	-	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00											
535351-001	REPAVING '09	Transportation		-	-	-	382,000.00	382,000.00	382,000.00	409,000.00	436,000.00	362,000.00	-	-											
535352-001	REPAVING '10	Transportation		-	-	-	275,000.00	275,000.00	275,000.00	308,000.00	308,000.00	308,000.00	-	-											
535476-001	FACILITY ENVIRONMENTAL IMPROVE	Transportation		-	-	-	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	-	-											
535478-001	BUCKLEY-MORGAN FACILITY-LAND A	Transportation		-	-	-	30,000.00	30,000.00	30,000.00	32,000.00	34,000.00	30,000.00	-	-											
551520-001	INTEROPERABLE COMMUNICATION SY	E911		-	-	-	90,000.00	90,000.00	100,000.00	100,000.00	-	-	-	-											
561862-001	INDOOR SPORTS ARENA	OCC		-	-	-	105,000.00	105,000.00	105,000.00	105,000.00	115,000.00	115,000.00	125,000.00												
561865-001	HPE BUILDING RENOVATION & EXPA	OCC		-	-	-	200,000.00	255,000.00	245,000.00	245,000.00	225,000.00	282,000.00	295,000.00												
561870-001	FERRANTE HALL ADDITION & RENOV	OCC		-	-	-	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	45,000.00												
587532-001	2006 TRUNK SEWER FORCE MAIN PR	WEP		-	-	-	80,000.00	80,000.00	80,000.00	80,000.00	90,000.00	90,000.00	90,000.00												
587948-001	ACI MIDLAND AVE CONV ENG	WEP		-	-	-	50,000.00	50,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00												
587959-001	ACI HARBOR BROOK IN WATER TRMT	WEP		-	-	-	12,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00												
587959-002	ACI HARBOR BROOK IN WATER TRMT	WEP		-	-	-	48,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00												
587960-002	ACI CLINTON ST CONVEYANCES	WEP		-	-	-	95,000.00	95,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00												
Total	761			-	-	-	3,000,000.00	2,800,000.00	2,800,000.00	2,800,000.00	2,500,000.00	2,450,000.00	1,220,000.00												
762																									
512581-001	ONCENTER COMPLEX REHAB/REONVAT	OnCenter		-	-	-	-	-	-	-	-	-	60,000.00	60,000.00	60,000.00	60,000.00									
512581-002	ONCENTER COMPLEX REHAB/REONVAT	OnCenter		-	-	-	-	-	-	-	-	-	110,000.00	110,000.00	110,000.00	110,000.00									
522697-001	PARKS FOR TOMORROW 2 - NEW ELE	Parks		-	-	-	-	-	-	-	-	-	152,000.00	152,000.00	152,000.00	152,000.00									
522698-001	PARKS FOR TOMORROW 2 - PRIMATE	Parks		-	-	-	-	-	-	-	-	-	28,000.00	28,000.00	28,000.00	28,000.00									
535325-001	BRIDGES '08	Transportation		-	-	-	-	-	-	-	-	-	60,000.00	60,000.00	60,000.00	60,000.00									
535326-001	BRIDGES '09	Transportation		-	-	-	-	-	-	-	-	-	10,000.00	10,000.00	15,000.00	15,000.00									
561862-001	INDOOR SPORTS ARENA	OCC		-	-	-	-	-	-	-	-	-	125,000.00	125,000.00	125,000.00	125,000.00									
561865-001	HPE BUILDING RENOVATION & EXPA	OCC		-	-	-	-	-	-	-	-	-	300,000.00	300,000.00	295,000.00	300,000.00									
561870-001	FERRANTE HALL ADDITION & RENOV	OCC		-	-	-	-	-	-	-	-	-	45,000.00	45,000.00	45,000.00	45,000.00									
587532-001	2006 TRUNK SEWER FORCE MAIN PR	WEP		-	-	-	-	-	-	-	-	-	90,000.00	90,000.00	90,000.00	90,000.00									
587948-002	ACI MIDLAND AVE CONV ENG	WEP		-	-	-	-	-	-	-	-	-	60,000.00	60,000.00	60,000.00	60,000.00									
587959-001	ACI HARBOR BROOK IN WATER TRMT	WEP		-	-	-	-	-	-	-	-	-	60,000.00	60,000.00	60,000.00	60,000.00									
587959-002	ACI HARBOR BROOK IN WATER TRMT	WEP		-	-	-	-	-	-	-	-	-	15,000.00	15,000.00	15,000.00	15,000.00									
587960-002	ACI CLINTON ST CONVEYANCES	WEP		-	-	-	-	-	-	-	-	-	110,000.00	110,000.00	110,000.00	110,000.00									
Total	762			-	-	-	-	-	-	-	-	-	1,225,000.00	1,225,000.00	1,225,000.00	1,230,000.00									
770																									
512581-001	ONCENTER COMPLEX REHAB/REONVAT	OnCenter		50,000.00	50,000.00	50,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512585-001	BOE OFFICE BUILDING PURCHASE &	BOE		43,000.00	48,000.00	48,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522692-001	PRATT'S FALLS FLOOD RECOVERY	Parks		3,850.00	3,850.00	3,850.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522697-001	PARKS FOR TOMORROW 2 - NEW ELE	Parks		272,170.00	272,170.00	272,170.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522701-001	PARKS FOR TOMORROW 2 - ONEIDA	Parks		44,650.00	44,650.00	44,650.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522702-001	PARKS FOR TOMORROW 2 - OS PLAY	Parks		10,000.00	10,000.00	10,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522703-001	PARKS FOR TOMORROW 2 - OS BOAT	Parks		25,400.00	25,400.00	25,400.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-					



### Exhibit D - General Obligation Bonds Schedule of Principal Payments

#/Project	Project Description	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2040
770																								
535353-001	REPAVING '11	Transportation	180,570.00	180,570.00	170,560.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535481-001	PURCHASE OF HEAVY EQUIPMENT	Transportation	135,000.00	155,000.00	160,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561862-001	INDOOR SPORTS ARENA	OCC	40,000.00	40,000.00	40,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561866-001	SITE IMPROVEMENTS	OCC	73,210.00	77,880.00	77,880.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561867-001	SCIENCE LABS	OCC	20,790.00	22,120.00	22,120.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561870-001	FERRANTE HALL ADDITION & RENOV	OCC	243,000.00	222,000.00	220,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
562136-001	BRANCHES COMPREHENSIVE INFRASTR	On Comm Pub Lib	25,000.00	30,000.00	30,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587532-001	2006 TRUNK SEWER FORCE MAIN PR	WEP	30,000.00	30,000.00	30,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587554-001	DIGESTOR CLEANING AND REPAIRS	WEP	65,000.00	65,000.00	65,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587960-001	ACI CLINTON ST CONVEYANCES	WEP	15,000.00	15,000.00	15,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
592674-001	PEOPLE SOFT	IT	450,000.00	450,000.00	450,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	770		2,475,000.00	2,525,000.00	2,525,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780																								
512588-001	JUSTICE CENTER ROOF REPLACEMENT	Facilities	49,600.00	49,600.00	58,700.00	62,000.00	62,000.00	62,000.00	62,000.00	62,000.00	62,000.00	74,400.00	74,400.00	74,400.00	74,400.00	74,400.00	74,400.00	74,400.00	74,400.00	-	-	-	-	-
512589-001	CIVIC CENTER WINDOWS SYSTEMS R	Facilities	144,600.00	144,600.00	171,100.00	180,800.00	180,800.00	180,800.00	180,800.00	180,800.00	180,800.00	216,900.00	216,900.00	216,900.00	216,900.00	216,900.00	216,900.00	216,900.00	216,900.00	-	-	-	-	-
512591-001	CIVIC CENTER OFFICE & MASONRY	Facilities	48,600.00	48,600.00	57,500.00	60,700.00	60,700.00	60,700.00	60,700.00	60,700.00	60,700.00	72,800.00	72,800.00	72,800.00	72,800.00	72,800.00	72,800.00	72,800.00	72,800.00	-	-	-	-	-
512592-001	470021 DOWNTOWN CAMPUS CAPITAL	Facilities	57,200.00	57,200.00	67,700.00	71,500.00	71,500.00	71,500.00	71,500.00	71,500.00	71,500.00	85,900.00	85,900.00	85,900.00	85,900.00	85,900.00	85,900.00	85,900.00	85,900.00	-	-	-	-	-
522707-001	PARKS FOR TOMORROW 2 - OLP	Parks	24,000.00	26,000.00	30,000.00	30,000.00	36,000.00	36,000.00	36,000.00	36,000.00	36,000.00	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00	-	-	-	-	-
522719-001	2010 PARKS ROOF	Parks	15,000.00	16,000.00	16,000.00	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	-	-	-	-	-
522722-001	PARKS IMPROVEMENTS AND MAINTEN	Parks	58,300.00	58,300.00	66,700.00	63,700.00	79,700.00	80,000.00	80,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	85,000.00	-	-	-	-	-
522722-001	PARKS ROADS, PARKING AND TRAIL	Parks	116,700.00	116,700.00	133,300.00	127,300.00	159,300.00	160,000.00	160,000.00	170,000.00	170,000.00	170,000.00	170,000.00	170,000.00	170,000.00	170,000.00	170,000.00	170,000.00	170,000.00	-	-	-	-	-
535010-019	CONTRACT RECONSTRUCTION [CONTR	Transportation	19,200.00	19,200.00	23,100.00	23,400.00	23,400.00	23,400.00	23,400.00	28,200.00	28,200.00	28,200.00	28,200.00	28,200.00	28,200.00	28,200.00	28,200.00	28,200.00	28,200.00	-	-	-	-	-
535013-001	FLY RD. PHASE 1 - BR-79/07&BR-1	Transportation	30,000.00	30,000.00	30,000.00	40,000.00	40,000.00	40,000.00	40,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535026-001	2006 FEDERAL AID-LOCAL MATCH	Transportation	60,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535030-001	TRAFFIC SYS.MGY CONTROL PROJEC	Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535031-001	TRAFFIC SYSTEMS MGMT '06	Transportation	60,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535100-001	GREEN DESIGN	Transportation	5,900.00	5,900.00	7,100.00	7,200.00	7,200.00	7,200.00	7,200.00	8,700.00	8,700.00	8,700.00	8,700.00	-	-	-	-	-	-	-	-	-	-	-
535151-001	OLD RTE.5 REPAVING PH 1-BR-111	Transportation	8,300.00	10,400.00	10,400.00	10,400.00	10,400.00	10,400.00	12,200.00	12,500.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535156-002	FREMONT RD. OVER CSX DESIGN BR	Transportation	18,300.00	18,300.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	21,900.00	-	-	-	-	-	-	-	-	-	-	-
535157-001	NORTHERN BLVD SAFETY/PAVING	Transportation	2,800.00	2,800.00	2,800.00	3,300.00	3,300.00	3,300.00	3,800.00	4,200.00	4,200.00	4,200.00	4,200.00	-	-	-	-	-	-	-	-	-	-	-
535158-001	2010 TRAFFIC SIGNAL	Transportation	1,400.00	1,400.00	1,400.00	1,600.00	1,600.00	1,600.00	1,900.00	2,100.00	2,100.00	2,100.00	2,100.00	-	-	-	-	-	-	-	-	-	-	-
535159-001	FLY RD PAVING-DESIGN	Transportation	2,800.00	2,800.00	2,800.00	3,300.00	3,300.00	3,300.00	3,800.00	4,200.00	4,200.00	4,200.00	4,200.00	-	-	-	-	-	-	-	-	-	-	-
535164-002	RURAL PAVING DESIGN	Transportation	7,800.00	7,800.00	7,800.00	8,300.00	10,200.00	10,200.00	11,500.00	11,500.00	11,500.00	11,500.00	11,500.00	-	-	-	-	-	-	-	-	-	-	-
535165-001	COSTELLO PKWAY OVER CSX-CONSTR	Transportation	7,200.00	7,200.00	7,200.00	7,700.00	9,500.00	9,500.00	10,700.00	10,700.00	10,700.00	10,700.00	10,700.00	-	-	-	-	-	-	-	-	-	-	-
535254-001	TSM '09 HOPKINS RD. @ BUCKLEY	Transportation	6,700.00	6,700.00	8,100.00	8,100.00	8,100.00	8,100.00	8,100.00	8,100.00	8,100.00	8,100.00	8,100.00	-	-	-	-	-	-	-	-	-	-	-
535278-001	COLD MIX-MULCH '11	Transportation	108,100.00	108,100.00	108,100.00	116,200.00	142,100.00	142,100.00	160,100.00	160,100.00	160,100.00	160,100.00	160,100.00	-	-	-	-	-	-	-	-	-	-	-
535279-001	COLD MIX-MULCH '12	Transportation	176,900.00	176,900.00	212,900.00	215,600.00	215,600.00	215,600.00	215,600.00	259,800.00	259,800.00	259,800.00	259,800.00	-	-	-	-	-	-	-	-	-	-	-
535326-001	BRIDGES '09	Transportation	30,000.00	35,000.00	35,000.00	35,000.00	35,000.00	35,000.00	40,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	-	-	-	-	-
535327-001	BRIDGES '10	Transportation	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00	22,000.00	26,000.00	26,000.00	26,000.00	29,000.00	30,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00
535328-001	BRIDGES '11	Transportation	25,100.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	24,900.00	25,000.00	25,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00
535353-001	REPAVING '11	Transportation	146,900.00	146,900.00	146,900.00	157,800.00	157,800.00	157,800.00	157,800.00	157,800.00	157,800.00	157,800.00	157,800.00	-	-	-	-	-	-	-	-	-	-	-
535354-001	REPAVING '12	Transportation	118,000.00	118,000.00	141,900.00	143,800.00	143,800.00	143,800.00	143,800.00	173,300.00	173,300.00	173,300.00	173,300.00	-	-	-	-	-	-	-	-	-	-	-
536509-002	FACTORY AT LEYMEYNE DESIGN	Transportation	5,000.00	5,000.00	5,800.00	5,800.00	5,800.00	5,800.00	5,800.00	7,500.00	7,500.00	7,500.00	7,500.00	-	-	-	-	-	-	-	-	-	-	-
536511-002	TAFT ROAD ROW & CONSTR. BR870	Transportation	2,100.00	2,600.00	2,600.00	2,600.00	2,600.00	2,600.00	3,000.00	3,100.00	3,100.00	3,100.00	3,100.00	-	-	-	-	-	-	-	-	-	-	-
536513-001	MORGAN/LIVERPOOL BYPASS PAVING	Transportation	3,300.00	4,200.00	4,200.00	4,200.00	4,200.00	4,200.00	4,900.00	5,100.00	5,100.00	5,100.00	5,100.00	-	-	-	-	-	-	-	-	-	-	-
536513-002	MORGAN/LIVERPOOL BYPASS PAVING	Transportation	10,200.00	12,800.00	12,800.00	12,800.00	12,800.00	12,800.00	14,900.00	15,400.00	15,400.00	15,400.00	15,400.00	-	-	-	-	-	-	-	-	-	-	-
551521-001	COMPUTER AIDED DISPATCH REFRES	E911	180,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561865-001	HPE BUILDING RENOVATION & EXPA	OCC	60,000.00	68,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	-	-	-	-	-
562136-001	BRANCHES COMPREHENSIVE INFRASTR	On Comm Pub Lib	260,000.00	265,000.00	305,000.00	305,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
575090-001	COVERED STORAGE	Metro Water Board	274,000.00	283,000.00	273,000.00	268,000.00	268,000.00	349,000.00	353,000.00	358,000.00	319,000.00	361,000.00	343,000.00	344,000.00	344,000.00	344,000.00	344,000.00	344,000.00	349,000.00	400,000.00	400,000.00	400,000.00	400,000.00	400,000.00
587539	BEAR TRAP LEY CREEK DRAINAGE	WEP	14,000.00	14,000.00	14,000.00	14,000.00	18,000.00	18,000.00	18,000.00	18,000.00	18,000.00	21,000.00	21,000.00	21,000.00	21,000.									

# Exhibit D - General Obligation Bonds Schedule of Principal Payments

Issue #/Project	Project Description	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045	
Total	790		2,400,000.00	2,355,000.00	1,385,000.00	965,000.00	1,010,000.00	980,000.00	730,000.00	570,000.00	285,000.00														
<b>800</b>																									
512581-001	ONCENTER COMPLEX REHAB/RENOVAT	OnCenter	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	35,000.00	35,000.00	35,000.00	35,000.00	35,000.00	35,000.00	-	-	-	-	-	-	-	-	
512590-001	ED KOCHIAN COB REHAB & RENOVAT	Facilities	60,000.00	60,000.00	60,000.00	70,000.00	70,000.00	70,000.00	70,000.00	70,000.00	70,000.00	80,000.00	80,000.00	80,000.00	80,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	90,000.00	
512593-001	COMMUNITY PLAZA & WALKS RENOVA	Facilities	130,000.00	140,000.00	140,000.00	160,000.00	180,000.00	180,000.00	180,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
512595-001	470021 Community Plaza Garage	Facilities	35,000.00	35,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
512599-001	470021 Remodeling TA Intake	Facilities	50,000.00	55,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
512597-001	470021 Center Rehabilitation	OnCenter	20,000.00	20,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00		
514004-001	Demolition of S1 Building	Van Dusen	100,000.00	110,000.00	110,000.00	120,000.00	120,000.00	130,000.00	130,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522721-001	PARKS IMPROVEMENTS AND MAINTEN	Parks	68,000.00	69,000.00	69,000.00	77,000.00	77,000.00	77,000.00	85,000.00	85,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	92,000.00	
522722-001	PARKS ROADS, PARKING AND TRAIL	Parks	154,000.00	153,000.00	152,000.00	169,000.00	169,000.00	169,000.00	186,000.00	186,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	203,000.00	
522724-001	ZOO PREVENTIVE MAINTENANCE	Parks	3,000.00	3,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	
522726-001	510040 Zoo HVAC Rehabilitation	Parks	75,000.00	75,000.00	85,000.00	95,000.00	95,000.00	95,000.00	95,000.00	95,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	
535154-001	JAMESVILLE ROAD PAVING BR-103	Transportation	24,000.00	24,000.00	24,000.00	29,000.00	29,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00	
535253-001	TSM '09 TRAFFIC SIGNAL UPGRADE	Transportation	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	
535279-001	COLD MULCH MIX12	Transportation	145,000.00	155,000.00	155,000.00	175,000.00	175,000.00	185,000.00	185,000.00	195,000.00	195,000.00	210,000.00	215,000.00	215,000.00	215,000.00	215,000.00	215,000.00	215,000.00	215,000.00	215,000.00	215,000.00	215,000.00	215,000.00	215,000.00	
535280-001	COLD MIX-MULCH '13	Transportation	40,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	60,000.00	
535287-001	BRIDGES '10	Transportation	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	45,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	
535288-001	BRIDGES '11	Transportation	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	
535354-001	532309 Repaving '12	Transportation	205,000.00	220,000.00	220,000.00	250,000.00	250,000.00	250,000.00	265,000.00	265,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	280,000.00	
535355-001	532309 Repaving '13	Transportation	45,000.00	50,000.00	55,000.00	55,000.00	55,000.00	55,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	65,000.00	
536509-002	532309 FACTORY @ LEMOYNE CONST	Transportation	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	
551560-001	CORRECTIONAL FAC VARIOUS IMPRO	Corrections	10,000.00	10,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
552498-001	Special Operations Facility Re	Sheriff	80,000.00	90,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
552499-001	Behavioral Health Unit Justice	Sheriff	110,000.00	120,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
561870-001	FERRANTE HALL ADDITION & RENOV	OCC	175,000.00	180,000.00	180,000.00	200,000.00	200,000.00	200,000.00	225,000.00	225,000.00	225,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	240,000.00	
561871-001	380006 Site Improvements	OCC	80,000.00	80,000.00	90,000.00	90,000.00	100,000.00	105,000.00	105,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
561872-001	380006 Technology Improvements	OCC	95,000.00	105,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
561873-001	380006 Campus Wide Energy Proj	OCC	20,000.00	25,000.00	25,000.00	25,000.00	30,000.00	30,000.00	30,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
561874-001	380006 Athletic Fields	OCC	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	180,000.00	
562136-001	BRANCHES COMPREHENSIVE INFRASTR	On Comm Pub Lib	40,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	
562137-001	CENTRAL LIBRARY RECONFIGURATIO	On Comm Pub Lib	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	
575090-003	COVERED STORAGE	Metro Water Board	505,000.00	505,000.00	555,000.00	545,000.00	555,000.00	590,000.00	610,000.00	610,000.00	635,000.00	640,000.00	635,000.00	645,000.00	635,000.00	645,000.00	635,000.00	645,000.00	635,000.00	645,000.00	635,000.00	645,000.00	635,000.00	645,000.00	
575104-001	COMPREHENSIVE ENERGY&ASSET REN	Metro Water Board	100,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	125,000.00	
587373-001	WETZEL RD WWTP UPGRADE BR 300	WEP	300,000.00	300,000.00	300,000.00	300,000.00	300,000.00	300,000.00	300,000.00	300,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	350,000.00	
587586-001	OAK ORCHARD	WEP	65,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00	
587597-001	480087 Suburban Green Infrastr	WEP	800,000.00	900,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
587598-001	480087 Oneida Lake PS	WEP	160,000.00	180,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
587599-001	Metro WWTP (002) Bypass Treatm	WEP	35,000.00	35,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00		
587600-001	Metro WWTP Pump Replacement	WEP	85,000.00	85,000.00	100,000.00	100,000.00	100,000.00	100,000.00	100,000.00	100,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00		
587601-001	Metro WWTP Phos Treat Sys Opti	WEP	80,000.00	90,000.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
587648-002	ACI MIDLAND AVE CONV																								

# Exhibit D - General Obligation Bonds Schedule of Principal Payments

Issue #/Project	Project Description	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
<b>810</b>																								
575090-003	COVERED STORAGE	Metro Water Board	160,000	187,000	183,000	208,000	202,000	192,000	198,000	231,000	196,000	195,000	195,000	215,000	240,000	225,000	225,000	230,000	230,000	230,000				
587554-001	DIGESTOR CLEANING AND REPAIRS	WEP	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	5,000	5,000	5,000	5,000				
587585-001	METRO WWTP INC GRIT HANDLING	WEP	80,000	80,000	80,000	90,000	90,000	90,000	90,000	90,000	100,000	90,000	90,000	100,000	100,000	100,000	120,000	120,000	120,000	120,000				
587599-001	Metro WWTP (002) Bypass Treatm	WEP	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000				
587600-001	Metro WWTP Pump Replacement	WEP	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	20,000	20,000	20,000				
587601-001	Metro WWTP Phos Treat Sys Opti	WEP	35,000	40,000																				
587648-001	ACI MIDLAND AVE CONV ENG	WEP	10,000	10,000	10,000	10,000	10,000	10,000	14,000	15,000	-	-	-	-	-	-	-	-	-	-				
587659-001	ACI HARBOR BROOK IN WATER TRMT	WEP	26,000	26,000	31,600	31,600	37,100	39,000	39,000	39,000	-	-	-	-	-	-	-	-	-	-				
587659-002	ACI HARBOR BROOK IN WATER TRMT	WEP	44,000	44,000	53,400	53,400	62,900	66,000	66,000	66,000	-	-	-	-	-	-	-	-	-	-				
587960-001	ACI CLINTON ST CONVEYANCES	WEP	96,800	108,600	112,400	130,600	134,700	137,500	145,200	145,200	-	-	-	-	-	-	-	-	-	-				
587960-002	ACI CLINTON ST CONVEYANCES	WEP	255,200	286,400	296,600	344,400	355,300	362,500	382,800	382,800	-	-	-	-	-	-	-	-	-	-				
587963-001	ACI SEWER SEPARATION	WEP	30,000	30,000	30,000	30,000	35,000	35,000	35,000	35,000	35,000	40,000	40,000	40,000	40,000	40,000	40,000	45,000	45,000	45,000				
Total	810		2,700,000	2,900,000	2,850,000	2,350,000	2,400,000	2,475,000	2,200,000	2,175,000	1,550,000	1,575,000	1,575,000	1,325,000	950,000	1,000,000	1,025,000	1,050,000	1,050,000	1,050,000				
<b>811</b>																								
575086-001	EASTERN BRANCH PIPELINE SECTIO	Metro Water Board	138,700	137,100	135,200	136,100	156,800	157,800	158,100	161,600	161,800	160,600	0	0	0	0	0	0	0	0	0	0	0	0
587952-001	ACI PHOSPHORUS REMOVAL PILOT P	WEP	109,900	99,800	98,400	94,900	124,500	128,000	108,600	133,500	129,000	132,300	0	0	0	0	0	0	0	0	0	0	0	0
587963-001	ACI SEWER SEPARATION	WEP	26,400	26,000	25,700	25,900	25,800	26,100	30,400	31,100	30,900	30,900	0	0	0	0	0	0	0	0	0	0	0	0
587964-001	ONON LAKE PARTNERSHIP/FED FUND	WEP	26,400	26,000	25,700	30,200	30,100	30,400	30,400	32,000	32,900	32,600	0	0	0	0	0	0	0	0	0	0	0	0
587375-001	METRO SCREEN EVALUATION	WEP	252,800	253,400	236,600	291,900	256,600	255,300	269,500	285,300	280,600	280,200	0	0	0	0	0	0	0	0	0	0	0	0
5312578-001	COURTHOUSE EXTERIOR MASONRY &	Facilities	168,600	166,400	164,900	164,300	164,100	161,000	162,400	163,100	164,500	166,000	0	0	0	0	0	0	0	0	0	0	0	0
531010-018	CONTRACT RECONSTRUCTION (CONTR	Transportation	14,500	14,300	14,100	14,100	18,800	18,400	18,600	18,600	19,000	19,000	0	0	0	0	0	0	0	0	0	0	0	0
531025-003	FEDERAL AID-LOCAL MATCH	Transportation	11,600	11,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
531010-016	CONTRACT RECONSTRUCTION (CONTR	Transportation	96,400	95,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
531030-004	TRAFFIC SYS.MGY CONTROL PROJE	Transportation	183,100	180,600	179,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
531030-006	TRAFFIC SYS.MGY CONTROL PROJE	Transportation	240,900	237,700	259,100	258,200	258,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
531021-001	BRIDGES '06	Transportation	57,800	66,500	65,900	65,700	65,700	73,600	74,200	74,600	75,200	75,800	0	0	0	0	0	0	0	0	0	0	0	0
561860-001	FACILITIES MASTER PLAN PROJECT	OCC	57,800	57,000	56,500	56,300	56,300	55,200	55,700	65,200	65,800	66,400	0	0	0	0	0	0	0	0	0	0	0	0
561861-001	FACILITIES MASTER PLAN PROJECT	OCC	168,600	166,400	164,900	167,800	187,600	184,000	185,600	186,400	188,000	189,600	0	0	0	0	0	0	0	0	0	0	0	0
587390-001	M/W/WW IMPROVEMENTS	WEP	176,200	169,200	202,600	220,000	201,700	225,400	228,300	239,700	241,700	241,700	0	0	0	0	0	0	0	0	0	0	0	0
551519-001	N-11 MICROWAVE TRANSMISSION N	E911	265,000	261,400	282,600	281,700	281,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
552343-001	FAC MGMT/HILLBROOK RENOV PROJ	Hillbrook	260,200	256,700	263,800	262,900	262,600	266,800	269,100	270,300	272,600	274,900	0	0	0	0	0	0	0	0	0	0	0	0
Total	811		2,255,000	2,225,000	2,175,000	2,100,000	2,090,000	1,580,000	1,590,000	1,650,000	1,660,000	1,670,000	0	0	0	0	0	0	0	0	0	0	0	0
<b>820</b>																								
512590-002	ED KOCHAN COB REHAB & RENOVAT	Facilities	20,300	20,900	21,500	22,000	22,700	23,300	23,900	24,600	25,300	26,000	26,700	27,500	28,300	29,100	29,900	30,700	31,500	32,400	33,400	0	0	0
512591-002	CIVIC CENTER OFFICE & MASONRY	Facilities	14,068	13,726	14,392	13,805	14,150	14,785	15,419	15,933	16,417	16,961	17,415	17,838	18,201	20,076	18,896	19,289	21,104	21,315	21,436	0	0	0
512592-002	470021 DOWNTOWN CAMPUS CAPITA	Facilities	32,458	31,674	33,208	31,395	32,650	34,115	35,581	36,767	37,883	39,139	40,185	41,162	41,999	46,324	43,604	44,511	48,696	49,185	49,464	0	0	0
512597-001	470021 OnCenter Rehabilitation	OnCenter	20,300	20,900	21,500	22,000	22,700	23,300	23,900	24,600	25,300	26,000	26,700	27,500	28,300	29,100	29,900	30,700	31,500	32,400	33,400	0	0	0
5873674-001	PEOPLE SOFT	IT	40,141	41,300	42,500	43,600	44,900	46,100	47,300	48,700	50,100	51,400	52,900	54,300	55,900	57,500	59,100	60,600	62,300	64,100	66,000	0	0	0
5322733-001	510040 Onondaga Lake W. Shore	Parks	1,130,000	1,160,000	1,195,000	1,230,000	1,260,000	1,300,000	1,335,000	1,370,000	1,410,000	1,450,000	1,490,000	1,530,000	1,575,000	1,615,000	1,665,000	1,710,000	1,755,000	1,805,000	1,855,000	1,910,000	1,960,000	17,790,000
535012-001	THOMPSON RD	Transportation	81,101	83,459	86,049	88,052	90,808	93,389	95,997	98,314	101,235	103,999	106,912	109,833	112,920	116,511	119,607	122,694	125,947	129,886	133,287	0	0	0
535151-002	OLD RTE 5 REPAVING PH 1-BR-111	Transportation	13,056	13,398	13,738	14,080	14,506	14,934	15,274	15,786	16,213	16,640	17,152	17,579	18,091	18,603	19,115	19,627	20,138	20,736	21,334	0	0	0
535152-001	BUCKLEY RD. CSX RR DESIGN BR-1	Transportation	4,881	5,003	5,166	5,288	5,451	5,614	5,736	5,898	6,061	6,224	6,427	6,590	6,793	6,997	7,159	7,363	7,566	7,769	8,014	0	0	0
535156-002	FREMONT RD. OVER CSX DESIGN BR	Transportation	2,298	2,522	2,599	2,675	2,752	2,828	2,904	2,981	3,057	3,133	3,210	3,287	3,363	3,516	3,592	3,669	3,745	3,898	3,975	0	0	0
535157-002	NORTHERN BLVD SAFETY/PAVING	Transportation	7,559	7,826	8,064	8,271	8,507	8,745	8,982	9,219	9,516	9,753	10,020	10,316	10,613	10,909	11,206	11,502	11,828	12,154	12,510	0	0	0
535158-001	2010 TRAFFIC SIGNAL	Transportation	229	252	260	268	275	283	290	298	306	313	321	329	336	352	359	367	375	390	397	0	0	0
535160-002	532309 SOUTH BAY RD PAVING-DES	Transportation	5,040	5,217	5,375	5,514	5,672	5,830	5,988	6,146	6,344	6,503	6,679	6,878	7,075	7,273	7,470	7,668	7,885	8,103	8,340	0	0	0
535162-002	532309 OLD LIVERPOOL/ELEC PKY	Transportation	204	209	215	220	227	233	239	247	254	260	268	274	282	290	299	307	315	324	333	0	0	0
535163-002	532309 JORDAN RD BRIDGE PROJ	Transportation	478	526	573	573	573	589	606	621	637	653	669	684	701	732	749	764	780	812	828	0	0	0
535166-001	532309 Bridge Maint PhI-Design	Transportation	806	835	860	882	908	933	958	985	1,014	1,040	1,069	1,100	1,132	1,164	1,195	1,227	1,262	1,296	1,334	0	0	0
535167-001	532309 Oran Delphi Rd Bridge D	Transportation	1,209	1,252	1,290	1,323	1,361	1,399	1,437	1,475	1,523	1,560	1,603	1,651	1,698	1,745	1,794	1,840	1,893	1,945	2,002	0	0	0
535168-001	532309 John Glenn Blvd Bridge	Transportation	4,032	4,174	4,300	4,411	4,538	4,664	4,791	4,917	5,075	5,202	5,344	5,502	5,660	5,818	5,976	6,134	6,308	6,482	6,672	0	0	0
535169-001	532309 ElecPloay Signal Interco	Transportation	807	835	860	882	908	933	958</															

# Exhibit D - General Obligation Bonds Schedule of Principal Payments

Issue #/Project#	Project Description	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
<b>820</b>																								
587597-002	480087 Suburban Green Infrastr	WEP	40,700	41,700	43,000	44,100	45,400	46,600	47,900	49,200	50,700	52,000	53,500	55,000	56,500	58,100	59,700	61,300	63,000	64,900	66,700	0	0	0
587598-001	480087 Oneida Lake PS	WEP	20,300	20,900	21,500	22,000	22,700	23,300	23,900	24,600	25,300	26,000	26,700	27,500	28,300	29,100	29,900	30,700	31,500	32,400	33,400	0	0	0
587600-001	Metro WWTP Pump Replacement	WEP	4,000	4,200	4,300	4,400	4,500	4,700	4,800	4,900	5,100	5,200	5,300	5,500	5,700	5,800	6,000	6,100	6,300	6,500	6,700	0	0	0
587608-001	480087 Hiawatha TS	WEP	78,500	83,200	85,800	89,800	91,100	98,900	91,500	103,000	103,100	104,500	104,700	109,500	118,500	107,400	116,500	120,300	128,200	129,600	135,900	0	0	0
587948-001	ACI MIDLAND AVE CONV ENG	WEP	10,083	10,400	10,800	11,000	11,400	11,700	12,000	12,300	12,700	13,000	13,400	13,800	14,200	14,600	14,900	15,300	15,800	16,200	16,700	0	0	0
587959-001	ACI HARBOR BROOK IN WATER TRMT	WEP	8,000	8,100	8,300	8,500	8,800	9,000	9,300	9,500	9,800	10,100	10,400	10,700	11,000	11,300	11,600	11,900	12,200	12,600	12,900	0	0	0
587960-002	ACI CLINTON ST CONVEYANCES	WEP	253,455	260,500	268,100	275,000	283,400	291,000	298,600	307,000	316,200	324,600	333,800	342,900	352,900	362,800	372,700	382,700	393,400	404,800	416,300	0	0	0
Total	820		2,365,000	2,430,000	2,500,000	2,570,000	2,640,000	2,720,000	2,790,000	2,870,000	2,950,000	3,030,000	3,115,000	3,200,000	3,295,000	3,380,000	3,480,000	3,575,000	3,675,000	3,775,000	3,880,000	1,910,000	1,960,000	17,790,000
<b>821</b>																								
512578-001	COURTHOUSE EXTERIOR MASONRY &	Facilities	444	115,111	113,333	113,333	112,889	112,320	111,500	111,500	112,500	113,500	0	0	0	0	0	0	0	0	0	0	0	0
522695-001	ALLIANCE BANK STADIUM NATURAL	Parks	466	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
535057-001	COLD MIX-MULCH '07	Transportation	333	86,333	94,444	94,444	94,074	93,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
551518-001	E-911 CENTER UPGRADES-CAD,RMS,	E911	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
551519-001	E-911 MICROWAVE TRANSMISSION N	E911	296	76,741	75,556	75,556	75,259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
552343-001	FAC MGMT/HILLBROOK RENOV PROJ	Hillbrook	185	47,963	47,222	56,667	56,444	56,160	55,750	65,042	65,625	66,208	0	0	0	0	0	0	0	0	0	0	0	
581861-001	FACILITIES MASTER PLAN PROJECT	OCC	778	297,370	283,333	264,444	263,407	243,360	278,750	269,458	271,875	293,208	0	0	0	0	0	0	0	0	0	0	0	
582130-001	390070 OCPL INTEGRATED LIBRARY	On Comm Pub Lib	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
587384-001	L'POOL PUMP STATIONS IMPROVEME	WEP	111	28,778	28,333	28,333	28,222	28,060	27,875	27,875	28,125	28,125	0	0	0	0	0	0	0	0	0	0	0	
587390-001	M/L WWTP IMPROVEMENTS	WEP	111	28,778	28,333	28,333	28,222	28,060	27,875	27,875	28,125	28,375	0	0	0	0	0	0	0	0	0	0	0	
587394-001	METRO LUPS REPLACEMENT	WEP	370	105,519	103,889	103,889	103,481	102,960	102,208	102,208	103,125	104,042	99,000	0	0	0	0	0	0	0	0	0	0	
587510-001	MEADOWSBROOK CULVERT REPAIR	WEP	444	115,111	113,333	112,778	112,296	121,680	120,792	120,792	121,875	122,958	117,000	0	0	0	0	0	0	0	0	0	0	
587521-001	PS IMPROVEMENTS	WEP	185	47,963	47,222	47,222	47,037	46,800	55,750	55,750	56,250	56,750	54,000	0	0	0	0	0	0	0	0	0	0	
587532-001	2006 TRUNK SEWER FORCE MAIN PR	WEP	796	211,036	207,780	207,779	206,966	205,920	204,417	204,417	206,250	217,542	189,000	0	0	0	0	0	0	0	0	0	0	
587959-001	ACI HARBOR BROOK IN WATER TRMT	WEP	111	28,778	28,333	28,333	28,222	28,060	27,875	27,875	28,125	28,375	27,000	0	0	0	0	0	0	0	0	0	0	
587960-001	ACI CLINTON ST CONVEYANCES	WEP	370	105,519	103,889	103,889	103,481	102,960	102,208	102,208	103,125	104,042	99,000	0	0	0	0	0	0	0	0	0	0	
Total	821		5,000	1,295,000	1,275,000	1,275,000	1,270,000	1,170,000	1,115,000	1,115,000	1,125,000	1,135,000	585,000	0	0	0	0	0	0	0	0	0	0	
<b>822</b>																								
512589-001	OVIC CENTER WINDOWS SYSTEMS R	Facilities	265,000	265,000	265,000	265,000	265,000	265,000	265,000	265,000	265,000	0	0	0	0	0	0	0	0	0	0	0	0	
Total	822		265,000	265,000	265,000	265,000	265,000	265,000	265,000	265,000	265,000	0	0	0	0	0	0	0	0	0	0	0	0	
<b>830</b>																								
512597-002	OnCenter Rehabilitation	Facilities	0	21,000	22,000	22,000	23,000	23,000	24,000	24,000	25,000	26,000	26,000	27,000	27,000	28,000	29,000	29,000	30,000	31,000	31,000	32,000	0	0
592661-002	ON CO CONV CTR COMPLEX-HOTEL P	OnCenter	0	54,924	56,000	57,000	59,000	60,000	62,000	63,000	64,000	66,000	67,000	69,000	70,000	72,000	74,000	75,000	77,000	79,000	80,000	82,000	0	0
522722-001	PARKS ROADS, PARKING AND TRAIL	Parks	0	28,000	31,000	31,000	32,000	33,000	34,000	34,000	35,000	36,000	37,000	37,000	38,000	39,000	40,000	41,000	42,000	43,000	44,000	45,000	0	0
522735-001	510040 Parks Various Improve	Parks	0	125,000	127,000	130,000	133,000	136,000	140,000	143,000	146,000	149,000	153,000	156,000	160,000	163,000	167,000	171,000	174,000	179,000	182,000	187,000	0	0
535152-002	BUCKLEY RD. CSK RR DESIGN BR-1	Transportation	0	5,000	4,000	4,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	0	0
535161-001	532309 ALLEN RD PAVING-DESIGN	Transportation	0	12,000	12,000	12,000	13,000	13,000	13,000	13,000	14,000	14,000	14,000	14,000	15,000	15,000	16,000	16,000	17,000	17,000	18,000	18,000	0	0
535163-002	532309 JORDAN RD BRIDGE PROJEC	Transportation	0	500	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0	0
535166-001	532309 Bridge Maint Phd-Design	Transportation	0	1,300	1,300	1,300	1,300	1,300	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	0	0
535167-001	532309 Oran Delphi Rd Bridge D	Transportation	0	1,900	1,900	1,800	1,800	1,800	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	0	0
535169-001	532309 ElecPwky Signal Interco	Transportation	0	1,300	1,300	1,300	1,300	1,300	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	0	0
535170-001	532309 Willis Ave over CSX	Transportation	0	8,800	9,400	9,700	10,000	10,000	10,200	10,500	10,800	11,100	11,400	11,800	11,800	12,100	12,400	12,400	12,400	12,400	12,400	12,400	0	0
535171-001	Orisco Valley Rd Bridge	Transportation	0	1,500	1,500	1,600	1,600	1,600	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	2,300	2,300	2,300	2,300	2,300	2,300	0	0
535172-001	532309 Old Rt 5 & Warners 2R	Transportation	0	3,000	3,100	3,200	3,300	3,400	3,500	3,700	3,700	3,800	3,900	3,900	3,900	4,100	4,100	4,100	4,100	4,100	4,100	4,100	0	0
535173-001	532309 Fremont/Butternut Creek	Transportation	0	3,500	3,800	3,900	4,000	4,000	4,100	4,200	4,300	4,400	4,600	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800	0	0
535174-001	532309 Electron Pky 2R Paving	Transportation	0	3,700	3,900	4,000	4,200	4,200	4,300	4,400	4,500	4,700	4,800	5,000	5,000	5,100	5,100	5,100	5,100	5,100	5,100	5,100	0	0
535177-001	532309 Taft Rd 2R Paving Desig	Transportation	0	4,400	4,700	4,800	5,000	5,000	5,100	5,200	5,400	5,600	5,700	5,800	5,800	6,200	6,200	6,200	6,200	6,200	6,200	6,200	0	0
535179-001	532309 Old Rt 57 2R Paving Des	Transportation	0	6,100	6,600	6,700	6,900	6,900	7,100	7,300	7,500	7,700	7,900	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	0	0
535180-001	532309 Tully Farms Rd Bridge	Transportation	0	1,500	1,500	1,600	1,600	1,600	1,800	1,800	1,800	1,800	1,800	1,800	1,800	2,300	2,300	2,300	2,300	2,300	2,300	2,300	0	0
535181-001	532309 Benson Road Bridge	Transportation	0	4,000	4,100	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000	5,100	5,300	5,300	5,300	5,300	5,300	5,300	0	0
535182-001	532309 Bridge Painting Project	Transportation	0	2,200	2,400	2,400	2,400	2,500	2,500	2,600	2,700	2,700	2,800	2,900	2,900	3,000	3,000	3,000	3,000	3,000	3,000	3,000	0	0
535183-001	532309 Buckley Rd Paving (1R)	Transportation	0	2,100	2,200	2,200	2,200	2,300	2,300	2,400	2,500													

# Exhibit D - General Obligation Bonds Schedule of Principal Payments

Issue #/Project#	Project Description	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
<b>831</b>																								
551520-001	INTEROPERABLE COMMUNICATION SY	E911	117,860	2,502	2,480	967,241	953,447	944,534	949,179	945,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0
561863-001	MAWHINNEY HALL	OCC	4,064	82	81	96,724	109,647	108,622	109,156	108,779	118,453	118,016	118,016	115,364	111,447	0	0	0	0	0	0	0	0	0
561867-001	SCIENCE LABS	OCC	2,963	46	46	64,677	68,486	67,555	68,046	73,675	75,042	74,483	75,109	74,216	72,620	27,028	0	0	0	0	0	0	0	0
561868-001	OTHER IMPROVEMENTS	OCC	1,219	25	24	29,017	33,371	33,059	33,221	33,107	30,710	30,597	30,597	29,909	28,894	0	0	0	0	0	0	0	0	0
561864-001	ALL PURPOSE FIELD	OCC	4,064	98	97	116,069	114,414	113,345	113,902	113,508	0	0	0	0	0	0	0	0	0	0	0	0	0	0
551560-001	CORRECTIONAL FAC VARIOUS IMPRO	Corrections	4,064	82	81	96,724	95,345	141,681	142,377	141,885	131,613	131,129	131,129	128,182	123,830	0	0	0	0	0	0	0	0	0
535030-001	TRAFFIC SYS.MGY CONTROL PROIEC	Transportation	1,626	33	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
535275-001	COLD MIX MULCH '08	Transportation	7,722	156	155	217,629	214,526	217,244	223,058	222,287	0	0	0	0	0	0	0	0	0	0	0	0	0	0
535350-001	REPAVING '08	Transportation	4,267	90	85	120,905	119,181	122,790	128,139	127,697	0	0	0	0	0	0	0	0	0	0	0	0	0	0
587373-001	WETZEL RD W/MP UPGRAD BR 300	WEP	9,754	201	195	232,138	228,828	236,135	237,295	236,475	232,516	240,403	240,403	235,000	227,021	0	0	0	0	0	0	0	0	0
587521-001	PS IMPROVEMENTS	WEP	2,439	49	57	67,707	66,741	66,118	66,443	66,213	61,419	61,194	61,194	59,818	0	0	0	0	0	0	0	0	0	0
587394-001	METRO LLPS REPLACEMENT	WEP	4,064	90	97	120,905	119,181	118,067	118,648	118,238	109,677	109,274	109,274	106,818	0	0	0	0	0	0	0	0	0	0
587510-001	MEADOWBROOK CULVERT REPAIR	WEP	163	4	4	4,836	4,767	4,723	4,746	4,730	4,387	4,371	4,371	0	0	0	0	0	0	0	0	0	0	0
512581-001	ONCENTER COMPLEX REHAB/REONVAT	OnCenter	14,879	274	303	370,869	380,755	371,815	430,951	442,711	414,976	404,077	402,033	403,213	387,335	56,727	0	0	0	0	0	0	0	0
512585-001	BOE OFFICE BUILDING PURCHASE &	BOE	2,345	19	19	45,898	49,870	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
592674-001	PEOPLE SOFT	IT	24,545	178	178	478,095	470,477	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522697-001	PARKS FOR TOMORROW 2 - NEW ELE	Parks	14,848	107	107	260,246	256,099	250,120	253,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522701-001	PARKS FOR TOMORROW 2 - ONEIDA	Parks	2,435	18	18	42,694	42,013	41,033	41,554	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522702-001	PARKS FOR TOMORROW 2 - OS PLAY	Parks	545	4	4	9,562	9,409	9,190	9,307	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522703-001	PARKS FOR TOMORROW 2 - OS BOAT	Parks	1,385	10	10	24,287	23,901	23,342	23,639	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522704-001	PARKS FOR TOMORROW 2 - PRATTS	Parks	273	2	2	4,781	4,705	4,595	4,653	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522706-001	PARKS FOR TOMORROW 2 - PROJECT	Parks	218	2	2	3,825	3,763	3,676	3,723	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522707-001	PARKS FOR TOMORROW 2 - OLP	Parks	117	1	1	2,056	2,023	1,976	2,001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522707-002	PARKS FOR TOMORROW 2 - OLP	Parks	424	3	3	7,439	7,321	7,150	7,241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
522692-001	PRATT'S FALLS FLOOD RECOVERY	Parks	210	2	2	3,681	3,622	3,538	3,583	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
561862-001	INDOOR SPORTS ARENA	OCC	2,182	16	16	38,248	37,638	41,354	46,533	45,862	45,862	54,250	52,364	52,727	52,727	52,364	0	0	0	0	0	0	0	0
561866-001	SITE IMPROVEMENTS	OCC	3,993	31	31	74,468	73,281	71,571	72,480	92,862	94,292	92,948	95,154	95,814	95,154	0	0	0	0	0	0	0	0	0
561870-001	FERRANTE HALL ADDITION & RENOV	OCC	13,255	86	87	236,179	251,236	254,560	269,895	279,760	259,578	305,608	288,000	290,001	290,000	288,000	0	0	0	0	0	0	0	0
562136-001	BRANCHES COMPREHENSIVE INFRAST	On Comm Pub Lib	1,364	12	12	28,686	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
535326-001	BRIDGES '09	Transportation	1,364	10	10	23,905	28,229	27,570	27,920	27,517	27,517	27,125	26,181	26,364	26,364	26,181	0	0	0	0	0	0	0	0
535028-001	BRIDGES '07	Transportation	818	6	6	14,343	14,114	13,785	13,960	13,758	18,345	18,083	17,455	17,575	17,575	17,455	0	0	0	0	0	0	0	0
535032-001	TRAFFIC SYSTEMS MGMT '07	Transportation	253	2	2	4,427	4,356	4,255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
535012-001	THOMPSON RD.	Transportation	17,592	129	131	320,381	315,276	320,818	170,991	77,241	77,241	0	0	0	0	0	0	0	0	0	0	0	0	0
535250-001	MORGAN RD/FAIRWAYS E/WATERHOUS	Transportation	519	4	5	10,021	9,861	9,631	9,753	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
535155-001	2010 BRIDGE PAINTING BR-102 '	Transportation	930	7	7	17,164	16,890	19,777	20,028	19,739	19,739	0	0	0	0	0	0	0	0	0	0	0	0	0
535156-001	FREMONT RD. OVER CSX DESIGN BR	Transportation	576	4	4	10,623	10,454	12,259	12,415	12,236	12,236	0	0	0	0	0	0	0	0	0	0	0	0	0
535024-002	WARNERS RD BRIDGE - DESIGN & C	Transportation	40	0	0	736	724	855	866	853	853	0	0	0	0	0	0	0	0	0	0	0	0	0
535277-001	COLD MIX-MULCH '10	Transportation	3,814	33	34	81,037	79,746	77,884	78,874	77,736	77,736	0	0	0	0	0	0	0	0	0	0	0	0	0
535352-001	REPAVING '10	Transportation	5,186	46	46	110,200	108,446	105,913	107,259	105,713	105,712	0	0	0	0	0	0	0	0	0	0	0	0	0
535325-001	BRIDGES '08	Transportation	818	6	6	19,124	18,819	18,380	18,613	18,344	18,345	18,083	17,455	17,576	17,576	17,455	0	0	0	0	0	0	0	0
535481-001	PURCHASE OF HEAVY EQUIPMENT	Transportation	7,364	61	63	152,990	150,552	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
535353-001	REPAVING '11	Transportation	9,849	72	68	172,659	169,908	170,022	193,895	191,098	191,098	188,374	0	0	0	0	0	0	0	0	0	0	0	0
535278-001	COLD MIX-MULCH '11	Transportation	7,877	57	54	136,108	135,902	135,001	155,105	152,867	152,868	150,689	0	0	0	0	0	0	0	0	0	0	0	0
587532-001	2006 TRUNK SEWER FORCE MAIN PR	WEP	1,636	12	12	28,686	28,228	27,570	27,920	27,517	36,990	40,688	39,273	39,545	39,272	0	0	0	0	0	0	0	0	0
587554-001	DIGESTOR CLEANING AND REPAIRS	WEP	3,545	26	26	62,152	61,162	78,114	88,413	87,138	87,139	85,896	82,908	83,485	83,485	82,909	0	0	0	0	0	0	0	0
587960-001	ACI CLINTON ST CONVEYANCES	WEP	819	6	6	14,343	14,114	13,784	13,960	13,758	18,345	18,083	17,455	17,576	17,576	17,455	0	0	0	0	0	0	0	0
<b>Total</b>	<b>831</b>		<b>325,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,315,000</b>	<b>5,235,000</b>	<b>4,625,000</b>	<b>4,640,000</b>	<b>4,215,000</b>	<b>2,690,000</b>	<b>2,440,000</b>	<b>2,075,000</b>	<b>1,900,000</b>	<b>1,695,000</b>	<b>720,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Complete Total</b>			<b>33,200,000</b>	<b>34,350,000</b>	<b>31,855,000</b>	<b>28,655,000</b>	<b>28,440,000</b>	<b>25,545,000</b>	<b>25,100,000</b>	<b>22,690,000</b>	<b>20,440,000</b>	<b>18,710,000</b>	<b>15,870,000</b>	<b>13,480,000</b>	<b>12,675,000</b>	<b>11,920,000</b>	<b>9,530,000</b>	<b>9,100,000</b>	<b>8,220,000</b>	<b>6,220,000</b>	<b>5,295,000</b>	<b>3,350,000</b>	<b>2,360,000</b>	<b>17,790,000</b>
																								<b>General Obligation Bonds - Principal</b>
																								<b>384,795,000</b>

## Exhibit E - General Obligation Bonds Schedule of Gross Interest Payments

Issue Number	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
<b>730</b>																							
512578-001	512578 Facilities	3,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522695-001	522695 Parks	3,125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535057-001	535057 Transportation	2,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
551518-001	551518 E911	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
551519-001	551519 E911	2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
552343-001	552343 Hillbrook	1,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561861-001	561861 OCC	5,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
562130-001	562130 On Comm Pub Lib	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587384-001	587384 WEP	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587390-001	587390 WEP	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587394-001	587394 WEP	2,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587510-001	587510 WEP	3,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587521-001	587521 WEP	1,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587532-001	587532 WEP	5,375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587959-001	587959 WEP	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587960-001	587960 WEP	2,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	730	33,750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>740</b>																							
512558-002	512558 Facilities	4,330	2,460	820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512578-001	512578 Facilities	14,700	8,400	2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512581-001	512581 OnCenter	33,795	20,140	6,980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522696-001	522696 Parks	4,200	2,400	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522698-001	522698 Parks	4,200	2,400	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535030-011	535030 Transportation	4,200	2,400	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535275-001	535275 Transportation	19,950	11,400	3,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535350-001	535350 Transportation	11,225	6,400	2,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
551520-001	551520 E911	316,500	183,000	61,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
551560-001	551560 Corrections	10,500	6,000	2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561863-001	561863 OCC	10,500	6,000	2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561864-001	561864 OCC	12,100	7,200	2,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561867-001	561867 OCC	4,725	2,700	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561868-001	561868 OCC	3,150	1,800	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587373-001	587373 WEP	25,400	14,500	4,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587394-001	587394 WEP	11,700	7,000	2,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587510-001	587510 WEP	500	300	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587521-001	587521 WEP	6,700	4,000	1,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587979-001	587979 WEP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
592661-002	592661 OnCenter	10,500	6,000	2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	740	508,875	294,500	98,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>750</b>																							
512554	512554 Facilities	18,110	880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512558	512558 Facilities	105,556	72,481	42,106	19,806	6,641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512558-003	512558 Facilities	231,720	187,945	143,895	104,590	74,966	44,804	14,805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512705	512705 Sheriff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522684	522684 Parks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535010	535010 Transportation	10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535010-006	535010 Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535030-008	535030 Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
586211	586211 WEP	14,625	8,950	3,225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
586424	586424 WEP	36,520	25,800	15,105	8,035	5,815	3,553	1,208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	750	416,531	296,056	204,331	132,431	87,422	48,356	16,013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>760</b>																							
512581-001	512581 OnCenter	7,500	4,500	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512581-002	512581 OnCenter	10,000	6,125	2,125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
514002-008	514002 Van Duyn	37,875	23,250	7,875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522697-001	522697 Parks	12,950	7,575	2,525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522698-001	522698 Parks	2,425	1,425	475	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522699-001	522699 Parks	5,800	3,500	1,175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522701-001	522701 Parks	8,900	5,400	1,825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522702-001	522702 Parks	1,125	675	225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522703-001	522703 Parks	5,550	3,350	1,125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522704-001	522704 Parks	500	300	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522706-001	522706 Parks	1,750	1,050	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522707-001	522707 Parks	1,625	975	325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535010-019	535010 Transportation	3,125	1,875	625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535012-001	535012 Transportation	12,375	7,625	2,625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535025-005	535025 Transportation	7,500	4,500	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535028-001	535028 Transportation	3,625	2,250	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535032-001	535032 Transportation	2,500	1,500	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

# Exhibit E - General Obligation Bonds Schedule of Gross Interest Payments

Issue Number	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
760																							
535250-001	535250	Transportation	8,125	4,875	1,625																		
535276-001	535276	Transportation	33,500	20,100	6,700																		
535277-001	535277	Transportation	21,450	13,250	4,500																		
535325-001	535325	Transportation	6,250	3,750	1,250																		
535326-001	535326	Transportation	1,250	750	250																		
535351-001	535351	Transportation	44,375	26,625	8,875																		
535352-001	535352	Transportation	32,800	20,250	6,875																		
535476-001	535476	Transportation	3,750	2,250	750																		
535478-001	535478	Transportation	3,375	2,025	675																		
551520-001	551520	E911	20,625	9,875	2,250																		
561862-001	561862	OCC	12,125	7,375	2,500																		
561865-001	561865	OCC	25,000	15,000	5,000																		
561870-001	561870	OCC	4,625	2,875	1,000																		
587532-001	587532	WEP	9,750	6,000	2,000																		
587948-002	587948	WEP	6,250	3,750	1,250																		
587959-001	587959	WEP	1,500	900	300																		
587959-002	587959	WEP	6,000	3,600	1,200																		
587960-001	587960	WEP	-	-	-																		
587960-002	587960	WEP	11,625	7,125	2,375																		
Total	#REF!		377,500	226,250	75,000																		
761																							
512581-001	512581	OnCenter	20,010	20,010	20,010	18,795	16,110	13,365	10,530	7,605	4,605	1,545											
512581-002	512581	OnCenter	32,525	32,525	32,525	30,613	26,675	22,558	18,065	13,190	8,190	2,833											
514002-008	514002	Van Dуйн	14,025	14,025	14,025	7,013	-	-	-	-	-	-											
522697-001	522697	Parks	46,785	46,785	46,785	44,554	38,903	32,344	25,965	18,963	11,515	3,914											
522698-001	522698	Parks	8,664	8,664	8,664	8,239	7,184	5,973	4,792	3,499	2,124	721											
522699-001	522699	Parks	8,736	8,736	8,736	7,716	5,616	3,420	1,152	-	-	-											
522701-001	522701	Parks	13,286	13,286	13,286	11,735	8,541	5,201	1,752	-	-	-											
522702-001	522702	Parks	1,638	1,638	1,638	1,447	1,053	641	216	-	-	-											
522703-001	522703	Parks	8,372	8,372	8,372	7,395	5,382	3,278	1,104	-	-	-											
522704-001	522704	Parks	910	910	910	804	585	356	120	-	-	-											
522706-001	522706	Parks	2,730	2,730	2,730	2,411	1,755	1,069	360	-	-	-											
522707-001	522707	Parks	2,548	2,548	2,548	2,251	1,638	998	336	-	-	-											
535012-001	535012	Transportation	13,830	13,830	13,830	11,599	6,893	2,209	-	-	-	-											
535028-001	535028	Transportation	8,960	8,960	8,960	8,323	7,010	5,638	4,220	2,634	884	-											
535032-001	535032	Transportation	2,680	2,680	2,680	2,255	1,380	465	-	-	-	-											
535250-001	535250	Transportation	11,830	11,830	11,830	10,449	7,605	4,631	1,560	-	-	-											
535276-001	535276	Transportation	84,303	84,303	84,303	78,183	65,583	52,407	38,295	22,712	7,272	-											
535277-001	535277	Transportation	54,016	54,016	54,016	50,191	42,316	34,081	25,048	15,201	5,101	-											
535325-001	535325	Transportation	19,135	19,135	19,135	18,073	15,885	13,365	10,530	7,605	4,605	1,545											
535326-001	535326	Transportation	3,335	3,335	3,335	3,123	2,685	2,228	1,755	1,268	768	258											
535351-001	535351	Transportation	111,693	111,693	111,693	103,576	86,863	69,387	50,689	30,082	9,646	-											
535352-001	535352	Transportation	82,434	82,434	82,434	76,590	64,559	51,978	38,192	23,177	7,777	-											
535476-001	535476	Transportation	8,460	8,460	8,460	7,823	6,510	5,138	3,720	2,258	758	-											
535478-001	535478	Transportation	8,754	8,754	8,754	8,117	6,804	5,432	3,966	2,357	758	-											
551520-001	551520	E911	17,325	17,325	17,325	15,413	11,475	7,125	2,400	-	-	-											
561862-001	561862	OCC	37,048	37,048	37,048	34,816	30,223	25,419	20,458	15,091	9,341	3,219											
561865-001	561865	OCC	83,699	83,699	83,699	79,449	69,461	58,027	46,451	35,002	22,313	7,596											
561870-001	561870	OCC	13,598	13,598	13,598	12,748	10,998	9,168	7,278	5,328	3,328	1,159											
587532-001	587532	WEP	28,195	28,195	28,195	26,495	22,995	19,335	15,555	11,408	6,908	2,318											
587948-002	587948	WEP	19,135	19,135	19,135	18,073	15,885	13,365	10,530	7,605	4,605	1,545											
587959-001	587959	WEP	4,875	4,875	4,875	4,620	4,028	3,341	2,633	1,901	1,151	386											
587959-002	587959	WEP	19,500	19,500	19,500	18,480	16,110	13,365	10,530	7,605	4,605	1,545											
587960-002	587960	WEP	35,373	35,373	35,373	33,354	29,198	24,503	19,305	13,943	8,443	2,833											
Total	761		828,405	828,405	828,405	764,655	637,905	509,805	377,505	248,430	124,693	31,415											
762																							
512581-001	512581	OnCenter	13,815	13,815	13,815	13,815	13,815	13,815	13,815	13,815	13,815	12,165	8,790	5,303	1,770								
512581-002	512581	OnCenter	25,328	25,328	25,328	25,328	25,328	25,328	25,328	25,328	25,328	22,303	16,115	9,721	3,245								
522697-001	522697	Parks	34,998	34,998	34,998	34,998	34,998	34,998	34,998	34,998	34,998	30,818	22,268	13,433	4,484								
522698-001	522698	Parks	6,447	6,447	6,447	6,447	6,447	6,447	6,447	6,447	6,447	5,677	4,102	2,475	826								
535325-001	535325	Transportation	13,815	13,815	13,815	13,815	13,815	13,815	13,815	13,815	13,815	12,165	8,790	5,303	1,770								
535326-001	535326	Transportation	2,891	2,891	2,891	2,891	2,891	2,891	2,891	2,891	2,891	2,616	2,054	1,326	443						</		

# Exhibit E - General Obligation Bonds Schedule of Gross Interest Payments

Issue Number		Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
770																								
512581-001	512581	OnCenter	5,750	3,250	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512585-001	512585	BOE	5,395	3,120	960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522692-001	522692	Parks	443	250	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522697-001	522697	Parks	31,300	17,691	5,443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522701-001	522701	Parks	5,135	2,902	893	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522702-001	522702	Parks	1,150	650	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522703-001	522703	Parks	2,921	1,651	508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522704-001	522704	Parks	575	325	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522706-001	522706	Parks	460	260	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522707-001	522707	Parks	247	140	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522707-002	522707	Parks	895	506	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535012-001	535012	Transportation	37,766	21,553	6,701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535024-002	535024	Transportation	88	50	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535028-001	535028	Transportation	1,725	975	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535032-001	535032	Transportation	532	301	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535155-001	535155	Transportation	2,042	1,167	359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535156-001	535156	Transportation	1,264	722	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535250-001	535250	Transportation	1,133	657	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535277-001	535277	Transportation	9,270	5,456	1,695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535278-001	535278	Transportation	16,290	9,068	2,729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535325-001	535325	Transportation	1,725	975	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535326-001	535326	Transportation	2,875	1,625	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535352-001	535352	Transportation	12,606	7,419	2,305	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535353-001	535353	Transportation	20,365	11,337	3,411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535481-001	535481	Transportation	17,525	10,275	3,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561862-001	561862	OCC	4,600	2,600	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561866-001	561866	OCC	8,839	5,062	1,558	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561867-001	561867	OCC	2,511	1,438	442	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561870-001	561870	OCC	25,975	14,350	4,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
562136-001	562136	On Comm Pub Lib	3,325	1,950	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587532-001	587532	WEP	3,450	1,950	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587554-001	587554	WEP	7,475	4,225	1,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587960-001	587960	WEP	1,725	975	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
592674-001	592674	IT	51,750	29,250	9,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		770	289,125	164,125	50,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780																								
512588-001	512588	Facilities	36,200	34,216	32,050	29,326	26,226	23,126	20,646	18,786	16,926	14,880	12,648	10,416	8,184	5,952	3,627	1,209	-	-	-	-	-	-
512589-001	512589	Facilities	105,546	99,762	93,448	85,506	76,466	67,426	60,194	54,770	49,346	43,380	36,873	30,366	23,859	17,352	10,574	3,525	-	-	-	-	-	-
512591-001	512591	Facilities	35,436	33,492	31,370	28,703	25,668	22,633	20,205	18,384	16,563	14,560	12,376	10,192	8,008	5,824	3,549	1,183	-	-	-	-	-	-
512592-001	512592	Facilities	41,769	39,481	36,983	33,841	30,266	26,691	23,831	21,686	19,541	17,180	14,603	12,026	9,449	6,872	4,188	1,396	-	-	-	-	-	-
522707-001	522707	Parks	8,900	7,900	6,780	5,430	3,780	1,980	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522719-001	522719	Parks	8,200	7,560	6,920	6,050	4,950	3,850	2,970	2,310	1,650	990	330	-	-	-	-	-	-	-	-	-	-	-
522721-001	522721	Parks	29,936	27,604	25,104	22,178	18,593	14,600	11,400	8,925	6,375	3,825	1,275	-	-	-	-	-	-	-	-	-	-	-
522722-001	522722	Parks	59,864	55,196	50,196	44,348	37,183	29,200	22,800	17,850	12,750	7,650	2,550	-	-	-	-	-	-	-	-	-	-	-
535010-019	535010	Transportation	9,672	8,904	8,058	7,011	5,841	4,671	3,735	2,961	2,115	1,269	423	-	-	-	-	-	-	-	-	-	-	-
535013-001	535013	Transportation	9,000	7,800	6,600	5,000	3,000	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535026-001	535026	Transportation	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535030-001	535030	Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535031-001	535031	Transportation	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535100-001	535100	Transportation	2,978	2,742	2,482	2,160	1,800	1,440	1,152	914	653	392	131	-	-	-	-	-	-	-	-	-	-	-
535151-001	535151	Transportation	3,023	2,649	2,233	1,765	1,245	680	188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535156-002	535156	Transportation	7,230	6,498	5,694	4,709	3,614	2,519	1,643	986	329	-	-	-	-	-	-	-	-	-	-	-	-	-
535157-001	535157	Transportation	1,178	1,066	954	816	651	473	315	189	63	-	-	-	-	-	-	-	-	-	-	-	-	-
535158-001	535158	Transportation	584	528	472	404	324	237	158	95	32	-	-	-	-	-	-	-	-	-	-	-	-	-
535159-001	535159	Transportation	1,178	1,066	954	816	651	473	315	189	63	-	-	-	-	-	-	-	-	-	-	-	-	-
535164-002	535164	Transportation	3,595	3,283	2,971	2,608	2,145	1,635	1,208	863	518	173	-	-	-	-	-	-	-	-	-	-	-	-
535165-001	535165	Transportation	3,339	3,051	2,763	2,427	1,997	1,522	1,124	803	482	161	-	-	-	-	-	-	-	-	-	-	-	-
535254-001	535254	Transportation	2,670	2,402	2,106	1,742	1,337	932	608	365	122	-	-	-	-	-	-	-	-	-	-	-	-	



### Exhibit E - General Obligation Bonds Schedule of Gross Interest Payments

Issue Number		Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
780																								
587583	587583	WEP	12,200	11,240	10,280	9,200	7,900	6,300	4,860	3,780	2,700	1,620	540	-	-	-	-	-	-	-	-	-	-	-
587584	587584	WEP	37,370	35,290	33,210	30,870	27,945	24,695	22,095	20,115	17,940	15,600	13,260	10,920	8,580	6,240	3,803	1,268	-	-	-	-	-	-
587585	587585	WEP	90,590	85,550	79,890	72,825	64,975	57,125	50,845	46,135	41,425	36,715	31,750	26,320	20,680	15,040	9,165	3,055	-	-	-	-	-	-
587948-001	587948	WEP	10,055	9,495	8,935	8,305	7,605	6,830	6,080	5,460	4,830	4,200	3,570	2,940	2,310	1,680	1,024	341	-	-	-	-	-	-
587959-001	587959	WEP	7,945	7,545	7,085	6,450	5,700	4,950	4,350	3,900	3,450	3,000	2,550	2,100	1,650	1,200	731	244	-	-	-	-	-	-
587960-001	587960	WEP	100,926	94,482	88,038	79,896	70,056	60,216	52,344	46,440	39,864	32,616	25,368	18,120	10,872	3,624	-	-	-	-	-	-	-	-
587960-002	587960	WEP	11,874	11,118	10,362	9,404	8,244	7,084	6,156	5,460	4,686	3,834	2,982	2,130	1,278	426	-	-	-	-	-	-	-	-
592661-001	592661	OnCenter	7,220	6,500	5,780	4,870	3,645	2,295	1,215	405	-	-	-	-	-	-	-	-	-	-	-	-	-	-
592674-001	592674	IT	109,700	90,500	69,000	43,125	14,375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	780		1,468,375	1,347,875	1,225,875	1,079,375	918,125	772,500	665,125	583,375	500,875	417,250	338,500	277,000	226,750	176,500	130,656	89,219	62,000	48,750	35,000	21,000	7,000	
790																								
512558-004	512558	Facilities	22,970	19,770	16,205	12,405	9,740	7,000	3,275	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512558-005	512558	Facilities	14,940	9,100	3,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512569-001	512569	Facilities	6,230	5,270	4,215	3,090	2,320	1,550	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512570-001	512570	Facilities	6,838	6,078	5,223	4,298	3,428	2,533	1,583	829	275	-	-	-	-	-	-	-	-	-	-	-	-	-
535010-018	535010	Transportation	1,860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535010-535070	535010	Transportation	27,680	9,440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535010-535866	535010	Transportation	25,200	8,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535020-037	535020	Transportation	13,280	11,340	9,355	7,080	5,340	3,625	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535020-040	535020	Transportation	15,890	13,550	10,915	7,990	5,970	3,975	1,275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535020-044	535020	Transportation	20,596	17,936	14,741	11,366	8,506	5,846	3,046	823	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535040-029	535040	Transportation	33,340	21,280	7,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535060-007	535060	Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
536238-002	536238	Transportation	51,640	42,420	31,975	20,825	13,100	5,450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561860-001	561860	OCC	55,933	50,253	43,638	36,388	29,433	21,878	13,478	6,799	2,173	-	-	-	-	-	-	-	-	-	-	-	-	-
586424-001	586424	WEP	7,925	6,745	5,520	4,220	3,285	2,375	1,125	263	-	-	-	-	-	-	-	-	-	-	-	-	-	-
586426-001	586426	WEP	25,341	22,681	19,666	16,366	13,161	9,756	6,056	3,108	1,018	-	-	-	-	-	-	-	-	-	-	-	-	-
587301-001	587301	WEP	11,808	10,488	9,003	7,378	5,838	4,298	2,673	1,378	454	-	-	-	-	-	-	-	-	-	-	-	-	-
587354-001	587354	WEP	2,095	1,775	1,440	1,090	845	600	275	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587372-001	587372	WEP	2,825	2,425	2,000	1,550	1,225	875	400	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587383-001	587383	WEP	23,620	20,320	16,555	12,530	9,740	7,000	3,275	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587383-002	587383	WEP	7,806	6,846	5,766	4,591	3,496	2,401	1,251	338	-	-	-	-	-	-	-	-	-	-	-	-	-	-
592661-001	592661	OnCenter	19,195	15,995	13,270	10,270	7,835	5,550	2,550	588	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	790		397,013	301,913	220,188	161,438	123,263	84,713	41,963	15,775	3,919													
800																								
512581-001	512581	OnCenter	21,600	20,250	18,750	17,250	15,750	14,250	12,750	11,250	9,625	7,875	6,125	4,375	2,625	875	-	-	-	-	-	-	-	-
512590-001	512590	Facilities	59,500	56,800	53,800	50,550	47,050	43,550	40,050	36,550	33,050	29,300	25,300	21,300	17,300	13,050	9,000	5,400	1,800	-	-	-	-	-
512593-001	512593	Facilities	51,600	45,500	38,500	31,000	22,500	13,500	4,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512595-001	512595	Facilities	2,450	875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512596-001	512596	Facilities	3,750	1,375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512597-001	512597	OnCenter	21,500	20,600	19,475	18,225	16,975	15,725	14,475	13,225	11,850	10,350	8,850	7,350	5,850	4,350	3,000	1,800	600	-	-	-	-	-
514004-001	514004	Van Dуйn	38,000	33,250	27,750	22,000	16,000	9,750	3,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522721-001	522721	Parks	41,760	38,675	35,225	31,575	27,725	23,875	19,825	15,575	11,325	6,900	2,300	-	-	-	-	-	-	-	-	-	-	-
522722-001	522722	Parks	91,880	84,975	77,350	69,625	60,875	52,425	43,550	34,250	24,950	15,225	5,075	-	-	-	-	-	-	-	-	-	-	-
522724-001	522724	Parks	2,110	1,975	1,800	1,600	1,400	1,200	1,000	800	600	375	125	-	-	-	-	-	-	-	-	-	-	-
522726-001	522726	Parks	55,250	51,875	47,875	43,375	38,625	33,875	29,125	24,375	19,250	13,750	8,250	2,750	-	-	-	-	-	-	-	-	-	-
535154-001	535154	Transportation	11,380	10,300	9,100	7,775	6,325	4,900	3,500	2,100	700	-	-	-	-	-	-	-	-	-	-	-	-	-
535253-001	535253	Transportation	6,800	6,125	5,375	4,625	3,875	3,125	2,375	1,500	500	-	-	-	-	-	-	-	-	-	-	-	-	-
535279-001	535279	Transportation	95,150	88,375	80,625	72,375	63,625	54,625	45,375	35,875	26,125	16,000	5,375	-	-	-	-	-	-	-	-	-	-	-
535280-001	535280	Transportation	29,800	27,875	25,625	23,375	21,125	18,875	16,250	13,250	10,250	7,250	4,250	1,375	-	-	-	-	-	-	-	-	-	-
535327-001	535327	Transportation	37,350	35,550	33,550	31,550	29,550	27,425	25,050	22,550	20,050	17,550	15,050	12,300	9,300	6,300	3,600	1,200	-	-	-	-	-	-
535328-001	535328	Transportation	38,600	36,800	34,800	32,550	30,050	27,550	25,050	22,550	20,050	17,550	15,050	12,300	9,300	6,300	3,600	1,200	-	-	-	-	-	-
535354-001	535354	Transportation	135,350	125,750	114,750	103,000	90,500	77,625	64,375	50,750	36,750	22,250	7,375	-	-	-	-	-	-	-	-	-	-	-
535355-001	535355	Transportation	34,150	32,000	29,375	26,625	23,875	21,125	18,125	14,875	11,625	8,375	5,125	1,750	-	-	-	-	-	-	-	-	-	-
536509-002	536500	Transportation	620	575	525	475	425	350	250	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-
551560-001	551560	Corrections	700	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
552498-001	552498	Sheriff	6,100	2,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
552499-001	552499	Sheriff	8,200	3,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561870-001	561870	OCC	143,250	135,250	126,250	116,750	106,750	96,750	86,750	76,125	64,875	53,625	42,000	30,000	18,000	6,000	-	-	-	-	-	-	-	-
561871-001	561871	OCC	30,100	26,500	22,250	17,750	13,000	7,875	2,625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561872-001	561872	OCC	7,150	2,625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561873-001	561873	OCC	8,650	7,625	6,375	5,125	3,750	2,250	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561874-001	561874	OCC	93,000	86,250	78,750	71,250	63,750	56,250	48,750	40,500	31,500	22,500	13,500	4,500	-									

## Exhibit E - General Obligation Bonds Schedule of Gross Interest Payments

Issue Number		Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
800																								
587600-001	587600	WEP	85,200	81,375	76,750	71,750	66,750	61,750	56,750	51,500	46,000	40,500	35,000	29,500	24,000	18,125	12,500	7,500	2,500					
587601-001	587601	WEP	6,100	2,250																				
587948-002	587948	WEP	17,300	15,250	12,750	10,250	7,500	4,500	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587959-002	587959	WEP	24,700	21,750	18,250	14,625	10,875	6,750	2,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587960-002	587960	WEP	205,000	195,375	184,125	172,875	161,000	148,500	136,000	123,500	111,000	97,875	84,125	70,375	56,625	42,875	30,000	18,000	6,000					
592674-001	592674	IT	34,350	28,125	20,750	12,750	4,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
592675-001	592675	IT	84,000	74,375	63,125	50,625	36,875	22,500	7,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
592676-001	592676	IT	15,000	5,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			800	2,707,500	2,467,500	2,235,000	2,039,375	1,836,875	1,634,375	1,431,250	1,246,250	1,078,750	906,875	732,500	576,250	447,500	326,250	220,000	130,000	42,500				
810																								
512589-001	512589	Facilities	179,353	168,693	158,033	146,821	134,873	122,743	110,613	98,483	89,017	81,534	73,371	65,208	57,045	47,825	37,549	27,272	16,601	5,534				
512590-001	512590	Facilities	64,572	60,732	56,892	52,855	48,552	44,182	39,812	35,442	32,033	29,341	26,404	23,467	20,530	17,212	13,514	9,815	5,975	1,992				
512590-002	512590	Facilities	25,138	23,638	22,138	20,638	19,013	17,263	15,513	13,763	12,450	11,413	10,213	9,013	7,813	6,563	5,263	3,881	2,363	788				
512595-001	512595	Facilities	3,500	1,250																				
522721-001	522721	Parks	12,789	11,661	10,487	9,218	7,902	6,540	5,083	3,580	2,429	1,522	507	-	-	-	-	-	-	-	-	-	-	-
522722-001	522722	Parks	37,454	34,152	30,712	26,997	23,144	19,154	14,888	10,485	7,114	4,458	1,486	-	-	-	-	-	-	-	-	-	-	-
522723-001	522723	Parks	868	792	712	626	537	444	345	243	165	103	34	-	-	-	-	-	-	-	-	-	-	-
522724-001	522724	Parks	16,939	15,446	13,890	12,210	10,467	8,662	6,733	4,742	3,217	2,016	672	-	-	-	-	-	-	-	-	-	-	-
535012-001	535012	Transportation	80,250	66,875	53,125	38,750	23,750	8,125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535031-001	535031	Transportation	6,000	4,875	3,625	2,250	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535070-001	535070	Transportation	4,140	3,570	3,000	2,430	1,788	1,073	358	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535150-001	535150	Transportation	7,625	6,738	5,828	4,918	3,940	2,895	1,850	1,015	531	270	90	-	-	-	-	-	-	-	-	-	-	-
535150-002	535156	Transportation	1,207	1,067	922	777	622	457	292	159	82	41	14	-	-	-	-	-	-	-	-	-	-	-
535158-001	535159	Transportation	6,723	6,028	5,333	4,638	3,943	3,245	2,545	1,848	1,283	804	282	11	-	-	-	-	-	-	-	-	-	-
535159-002	535160	Transportation	2,524	2,279	2,031	1,781	1,531	1,264	979	694	474	302	113	9	-	-	-	-	-	-	-	-	-	-
535160-001	535161	Transportation	2,315	2,025	1,735	1,445	1,153	838	503	168	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535161-001	535162	Transportation	1,678	1,463	1,248	1,035	825	600	360	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535162-001	535163	Transportation	2,366	2,136	1,904	1,669	1,434	1,189	934	676	471	306	126	18	-	-	-	-	-	-	-	-	-	-
535163-001	535170	Transportation	2,372	2,129	1,887	1,636	1,377	1,102	809	514	327	240	144	48	-	-	-	-	-	-	-	-	-	-
535163-002	535257	Transportation	2,372	2,129	1,887	1,636	1,377	1,102	809	514	327	240	144	48	-	-	-	-	-	-	-	-	-	-
535170-001	535280	Transportation	942	862	785	702	612	517	417	315	235	173	104	35	-	-	-	-	-	-	-	-	-	-
535256-001	535290	Transportation	6,308	5,513	4,718	3,923	3,128	2,275	1,365	455	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535257-001	535329	Transportation	1,359	1,219	1,079	939	799	651	496	341	225	140	47	-	-	-	-	-	-	-	-	-	-	-
535257-002	535329	Transportation	16,466	14,783	13,103	11,421	9,738	7,951	6,056	4,161	2,741	1,701	567	-	-	-	-	-	-	-	-	-	-	-
535280-001	535330	Transportation	26,362	24,182	22,004	19,669	17,172	14,509	11,684	8,819	6,590	4,845	2,907	969	-	-	-	-	-	-	-	-	-	-
535290-001	535330	Transportation	89,216	81,846	74,476	66,556	58,086	49,074	39,519	29,826	22,284	16,380	9,828	3,276	-	-	-	-	-	-	-	-	-	-
535329-001	535355	Transportation	53,700	50,450	47,200	43,950	40,700	37,200	33,450	29,700	26,888	24,675	22,125	19,575	17,025	14,288	11,281	8,194	4,988	1,663				
535330-001	535478	Transportation	14,425	13,425	12,425	11,425	10,425	9,425	8,425	7,425	6,675	6,125	5,525	4,925	4,325	3,700	2,969	2,156	1,313	438				
535355-001	535478	Transportation	43,230	39,660	36,090	32,255	28,155	23,787	19,152	14,452	10,796	7,935	4,761	1,587	-	-	-	-	-	-	-	-	-	-
535478-001	535484	Transportation	8,125	5,125	1,750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535484-001	535484	Transportation	51,250	32,500	11,250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
551525-001	551525	E911	21,975	14,025	4,875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
552498-001	552498	Sheriff	2,750	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561870-001	561870	OCC	15,400	14,400	13,400	12,400	11,400	10,400	9,400	8,400	7,650	7,100	6,500	5,825	5,075	4,294	3,481	2,588	1,575	525				
561871-001	561871	OCC	8,250	7,250	6,125	4,875	3,625	2,250	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561872-001	561872	OCC	2,625	875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561873-001	561873	OCC	4,875	4,125	3,375	2,625	1,875	1,125	375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561874-001	561874	OCC	11,925	10,675	9,525	8,375	7,125	5,875	4,575	3,225	2,175	1,350	450	-	-	-	-	-	-	-	-	-	-	-
575090-003	575090	Metro Water Board	142,500	133,825	124,575	114,800	104,550	94,700	84,950	74,225	66,000	60,625	54,775	48,625	41,800	34,544	27,231	19,838	12,075	4,025				
587554-001	587554	WEP	6,200	5,700	5,200	4,700	4,200	3,700	3,200	2,700	2,325	2,050	1,750	1,450	1,150	838	594	431	263	88				
587585-001	587585	WEP	65,850	61,850	57,850	53,600	49,100	44,600	40,100	35,600	32,100	29,500	26,800	23,950	20,950	17,825	14,250							

# Exhibit E - General Obligation Bonds Schedule of Gross Interest Payments

Issue Number	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
811																							
535030-006	535030 Transportation	43,802	36,890	28,410	18,064	6,450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535021-001	535021 Transportation	29,331	28,142	25,901	23,269	20,313	16,830	13,135	9,415	5,670	1,895	-	-	-	-	-	-	-	-	-	-	-	-
561860-001	561860 OCC	25,191	23,533	21,612	19,356	16,823	14,035	11,263	8,240	4,965	1,660	-	-	-	-	-	-	-	-	-	-	-	-
561861-001	561861 OCC	77,315	72,477	66,870	59,816	51,370	42,080	32,840	23,540	14,180	4,740	-	-	-	-	-	-	-	-	-	-	-	-
587390-001	587390 WEP	92,854	87,862	81,462	72,810	63,168	52,490	41,170	29,778	18,078	6,043	-	-	-	-	-	-	-	-	-	-	-	-
551519-001	551519 E911	47,871	40,269	30,990	19,704	7,035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
552343-001	552343 Hillbrook	112,909	105,445	96,607	86,073	74,250	61,015	47,618	34,133	20,560	6,873	-	-	-	-	-	-	-	-	-	-	-	-
Total	811	778,575	713,875	639,500	554,000	459,750	368,000	288,750	207,750	125,000	41,750	-	-	-	-	-	-	-	-	-	-	-	-
820																							
512590-002	512590 Facilities	19,918	18,888	17,828	16,741	15,623	14,473	13,293	12,081	10,833	9,551	8,233	7,153	6,316	5,455	4,570	3,642	2,650	1,612	543	-	-	-
512591-002	512591 Facilities	12,920	12,225	11,523	10,823	10,129	9,405	8,650	7,866	7,058	6,223	5,364	4,661	4,120	3,546	2,962	2,377	1,732	1,043	348	-	-	-
512592-002	512592 Facilities	29,814	28,210	26,588	24,973	23,372	21,703	19,961	18,152	16,286	14,360	12,377	10,755	9,508	8,183	6,834	5,484	3,997	2,407	804	-	-	-
512597-001	512597 OnCenter	19,918	18,888	17,828	16,741	15,623	14,473	13,293	12,081	10,833	9,551	8,233	7,153	6,316	5,455	4,570	3,642	2,650	1,612	543	-	-	-
592674-001	592674 IT	39,394	37,358	35,263	33,111	30,898	28,623	26,288	23,888	21,418	18,881	16,273	14,136	12,483	10,782	9,033	7,200	5,241	3,187	1,073	-	-	-
522733-001	522733 Parks	1,907,213	1,849,963	1,791,088	1,730,463	1,668,213	1,604,213	1,538,338	1,470,713	1,401,213	1,329,713	1,256,213	1,196,013	1,149,438	1,101,588	1,052,388	1,000,694	945,456	887,606	828,131	769,338	706,388	2,864,394
535012-001	535012 Transportation	79,685	75,571	71,333	66,981	62,509	57,904	53,170	48,312	43,323	38,192	32,920	28,599	25,258	21,816	18,275	14,564	10,600	6,442	2,166	-	-	-
535151-002	535151 Transportation	12,749	12,088	11,409	10,714	9,999	9,263	8,508	7,732	6,932	6,110	5,266	4,573	4,038	3,488	2,922	2,328	1,695	1,030	347	-	-	-
535152-001	535152 Transportation	4,781	4,534	4,279	4,018	3,749	3,473	3,189	2,898	2,599	2,292	1,976	1,716	1,516	1,309	1,096	874	636	387	130	-	-	-
535156-002	535156 Transportation	2,395	2,275	2,147	2,015	1,879	1,740	1,597	1,450	1,299	1,144	985	856	756	653	546	435	317	193	65	-	-	-
535157-002	535157 Transportation	7,471	7,086	6,689	6,280	5,861	5,430	4,987	4,532	4,063	3,582	3,087	2,682	2,368	2,045	1,714	1,366	994	604	203	-	-	-
535158-001	535158 Transportation	240	228	215	202	188	174	160	145	130	114	99	86	76	65	55	43	32	19	6	-	-	-
535160-002	535160 Transportation	4,981	4,724	4,459	4,187	3,907	3,620	3,324	3,021	2,709	2,388	2,058	1,788	1,579	1,363	1,142	910	663	403	136	-	-	-
535162-002	535162 Transportation	199	189	178	167	156	145	133	121	108	95	82	71	63	55	46	36	26	16	5	-	-	-
535163-002	535163 Transportation	499	474	447	420	392	363	333	302	271	238	205	178	158	136	114	91	66	40	13	-	-	-
535166-001	535166 Transportation	797	756	714	670	625	579	532	483	433	382	329	286	253	218	183	146	106	64	22	-	-	-
535167-001	535167 Transportation	1,195	1,134	1,070	1,005	938	869	798	725	650	573	494	429	379	327	274	219	159	97	33	-	-	-
535168-001	535168 Transportation	3,985	3,779	3,568	3,350	3,126	2,896	2,660	2,417	2,167	1,910	1,646	1,430	1,263	1,091	914	728	530	322	108	-	-	-
535169-001	535169 Transportation	797	756	714	670	625	579	532	483	433	382	329	286	253	218	183	146	106	64	22	-	-	-
535170-001	535170 Transportation	5,977	5,669	5,351	5,024	4,689	4,344	3,989	3,625	3,251	2,865	2,470	2,146	1,894	1,636	1,371	1,093	795	483	163	-	-	-
535171-001	535171 Transportation	996	944	891	837	781	724	664	603	541	478	412	358	316	273	229	182	133	81	27	-	-	-
535172-001	535172 Transportation	1,991	1,889	1,782	1,674	1,563	1,447	1,328	1,206	1,082	955	823	716	633	547	457	364	265	161	54	-	-	-
535173-001	535173 Transportation	2,390	2,266	2,139	2,009	1,875	1,737	1,593	1,447	1,299	1,146	988	859	759	656	549	437	318	193	65	-	-	-
535174-001	535174 Transportation	2,509	2,380	2,246	2,109	1,969	1,824	1,673	1,520	1,364	1,203	1,038	902	797	689	576	459	334	203	68	-	-	-
535175-001	535175 Transportation	1,991	1,889	1,782	1,674	1,563	1,447	1,328	1,206	1,082	955	824	716	633	547	457	364	265	161	54	-	-	-
535177-001	535177 Transportation	2,987	2,833	2,674	2,511	2,344	2,171	1,992	1,809	1,624	1,432	1,235	1,074	949	820	686	546	398	241	81	-	-	-
535178-001	535178 Transportation	996	944	891	837	781	724	664	603	541	477	412	358	316	273	229	182	133	81	27	-	-	-
535179-001	535179 Transportation	1,673	1,587	1,497	1,406	1,313	1,216	1,115	1,013	909	802	692	601	532	459	384	306	223	135	45	-	-	-
535180-001	535180 Transportation	996	944	891	837	781	724	664	603	541	478	412	358	316	273	229	182	133	81	27	-	-	-
535256-001	535256 Transportation	6,972	6,611	6,240	5,859	5,468	5,064	4,651	4,226	3,790	3,343	2,881	2,503	2,210	1,908	1,599	1,274	927	564	190	-	-	-
535258-001	535258 Transportation	1,992	1,889	1,783	1,674	1,562	1,447	1,329	1,208	1,083	955	823	715	631	545	457	364	265	161	54	-	-	-
535260-001	535260 Transportation	3,982	3,777	3,564	3,347	3,125	2,894	2,655	2,412	2,165	1,910	1,647	1,432	1,266	1,093	915	728	530	322	108	-	-	-
535281-001	535281 Transportation	32,679	30,991	29,250	27,466	25,642	23,752	21,791	19,792	17,762	15,669	13,514	11,748	10,384	8,970	7,505	5,976	4,350	2,642	885	-	-	-
535330-001	535330 Transportation	15,938	15,116	14,268	13,398	12,503	11,581	10,636	9,666	8,666	7,638	6,583	5,718	5,049	4,361	3,653	2,911	2,119	1,289	434	-	-	-
535356-001	535356 Transportation	68,147	64,626	60,995	57,275	53,472	49,530	45,440	41,273	37,040	32,676	28,181	24,498	21,654	18,706	15,651	12,461	9,070	5,508	1,846	-	-	-
536506-007	536506 Transportation	398	378	357	335	313	289	266	241	216	191	165	143	127	109	91	73	53	32	11	-	-	-
551526-001	551526 E911	13,941	13,216	12,476	11,716	10,934	10,129	9,301	8,451	7,579	6,681	5,759	5,003	4,418	3,817	3,199	2,549	1,854	1,126	379	-	-	-
561872-001	56																						

### Exhibit E - General Obligation Bonds Schedule of Gross Interest Payments

Issue Number	Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
821																							
587521-001	587521	Facilities	22,339	21,618	19,954	18,065	16,180	14,304	12,253	9,744	6,944	4,119	1,350	-	-	-	-	-	-	-	-	-	-
587532-001	587532	WEP	88,514	85,340	78,019	69,708	61,413	53,155	44,949	35,750	25,483	14,889	4,725	-	-	-	-	-	-	-	-	-	-
587959-001	587959	WEP	12,067	11,634	10,636	9,503	8,371	7,245	6,126	4,872	3,472	2,059	675	-	-	-	-	-	-	-	-	-	-
587960-001	587960	WEP	44,245	42,659	38,998	34,843	30,695	26,566	22,463	17,864	12,730	7,551	2,475	-	-	-	-	-	-	-	-	-	-
Total	821		481,100	461,625	416,700	365,700	314,800	266,000	220,300	170,125	114,125	57,625	14,625	-	-	-	-	-	-	-	-	-	-
822																							
512589-001	512589	Facilities	104,145	104,145	104,145	104,145	104,145	104,145	104,145	104,145	104,145	-	-	-	-	-	-	-	-	-	-	-	-
Total	822		104,145	104,145	104,145	104,145	104,145	104,145	104,145	104,145	104,145	-	-	-	-	-	-	-	-	-	-	-	-
830																							
512597-002	512597	Facilities	23,488	15,990	14,915	13,815	12,690	11,540	10,365	9,165	8,065	7,045	6,265	5,735	5,195	4,628	4,004	3,351	2,688	1,963	1,188	400	-
592661-002	592661	OnCenter	60,524	41,183	38,410	35,585	32,685	29,710	26,680	23,535	20,680	18,080	16,090	14,730	13,340	11,875	10,278	8,601	6,891	5,038	3,050	1,025	-
522722-001	522722	Parks	32,891	22,426	20,951	19,401	17,826	16,201	14,526	12,826	11,276	9,856	8,766	8,026	7,276	6,482	5,618	4,706	3,773	2,763	1,675	563	-
522735-001	522735	Parks	137,335	93,439	87,139	80,714	74,139	67,414	60,514	53,439	46,944	41,044	36,534	33,444	30,284	26,952	23,341	19,539	15,658	11,463	6,950	2,338	-
535104-001	535104	Transportation	4,740	3,208	2,983	2,783	2,558	2,308	2,058	1,808	1,583	1,383	1,233	1,133	1,033	919	788	653	518	375	225	75	-
535152-002	535152	Transportation	6,553	4,433	4,058	3,658	3,258	2,858	2,433	1,983	1,578	1,218	938	738	538	331	113	-	-	-	-	-	-
535161-001	535161	Transportation	10,039	6,759	6,159	5,559	4,934	4,284	3,634	2,984	2,379	1,819	1,399	1,119	829	519	180	-	-	-	-	-	-
535163-002	535163	Transportation	664	454	417	367	317	267	217	167	122	82	52	37	27	17	6	-	-	-	-	-	-
535166-001	535166	Transportation	1,068	718	653	588	523	458	388	313	246	186	141	111	81	50	17	-	-	-	-	-	-
535167-001	535167	Transportation	1,573	1,059	964	871	781	691	591	481	382	294	228	184	140	89	30	-	-	-	-	-	-
535169-001	535169	Transportation	1,068	718	653	588	523	458	388	313	246	186	141	111	81	50	17	-	-	-	-	-	-
535170-001	535170	Transportation	7,882	5,322	4,867	4,390	3,897	3,397	2,892	2,375	1,896	1,458	1,122	890	654	408	140	-	-	-	-	-	-
535171-001	535171	Transportation	1,312	885	810	733	653	573	488	398	317	245	191	155	119	76	26	-	-	-	-	-	-
535172-001	535172	Transportation	2,627	1,772	1,620	1,462	1,300	1,135	967	795	633	485	373	296	218	136	46	-	-	-	-	-	-
535173-001	535173	Transportation	3,153	2,130	1,947	1,755	1,557	1,357	1,155	947	756	582	448	354	258	159	54	-	-	-	-	-	-
535174-001	535174	Transportation	3,310	2,235	2,045	1,845	1,637	1,427	1,215	997	797	613	471	373	273	169	57	-	-	-	-	-	-
535177-001	535177	Transportation	3,943	2,662	2,435	2,197	1,952	1,702	1,450	1,190	949	729	560	445	329	205	70	-	-	-	-	-	-
535179-001	535179	Transportation	5,466	3,691	3,373	3,041	2,701	2,356	2,006	1,646	1,313	1,009	776	613	445	277	97	-	-	-	-	-	-
535180-001	535180	Transportation	1,312	885	810	733	653	573	488	398	317	245	191	155	119	76	26	-	-	-	-	-	-
535181-001	535181	Transportation	3,376	2,274	2,071	1,866	1,659	1,446	1,229	1,006	802	616	474	377	278	173	60	-	-	-	-	-	-
535182-001	535182	Transportation	1,947	1,314	1,199	1,079	959	837	712	584	465	357	275	218	160	99	34	-	-	-	-	-	-
535183-001	535183	Transportation	1,794	1,209	1,101	991	881	769	654	536	426	326	250	198	145	89	30	-	-	-	-	-	-
535184-001	535184	Transportation	3,153	2,130	1,947	1,755	1,557	1,357	1,155	947	756	582	448	354	258	159	54	-	-	-	-	-	-
535258-001	535258	Transportation	2,627	1,772	1,620	1,462	1,300	1,135	967	795	633	485	373	296	218	136	46	-	-	-	-	-	-
535261-001	535261	Transportation	16,335	11,006	10,031	9,038	8,033	7,006	5,956	4,883	3,893	2,989	2,300	1,828	1,345	837	287	-	-	-	-	-	-
535282-001	535282	Transportation	65,343	44,029	40,144	36,182	32,154	28,037	23,829	19,532	15,569	11,955	9,200	7,311	5,379	3,350	1,148	-	-	-	-	-	-
535331-001	535331	Transportation	42,133	28,425	25,950	23,400	20,800	18,125	15,400	12,625	10,065	7,725	5,945	4,725	3,475	2,165	743	-	-	-	-	-	-
535357-001	535357	Transportation	178,383	120,191	109,586	98,776	87,781	76,538	65,048	53,316	42,500	32,634	25,114	19,962	14,691	9,150	3,134	-	-	-	-	-	-
536031-001	536031	Transportation	53,333	32,975	23,825	14,450	4,850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561875-001	561875	OCC	235,024	160,001	149,276	138,226	126,976	115,501	103,701	91,576	80,431	70,291	62,551	57,261	51,851	46,147	39,965	33,463	26,814	19,625	11,900	4,000	-
575090-003	575090	Metro Water Board	49,840	33,919	31,644	29,319	26,944	24,494	21,969	19,394	17,034	14,894	13,264	12,144	10,994	9,787	8,474	7,090	5,684	4,163	2,525	850	-
587563-001	587563	WEP	56,889	35,150	25,375	15,400	5,175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587585-001	587585	WEP	14,100	9,589	8,939	8,289	7,614	6,914	6,214	5,489	4,814	4,214	3,754	3,434	3,114	2,773	2,401	2,008	1,603	1,175	713	238	-
587592-001	587592	WEP	4,832	3,298	3,098	2,873	2,623	2,373	2,123	1,873	1,648	1,448	1,298	1,188	1,068	944	813	678	543	400	250	88	-
587597-002	587597	WEP	105,851	65,413	47,225	28,650	9,625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587601-001	587601	WEP	48,272	32,849	30,631	28,356	26,031	23,656	21,231	18,756	16,486	14,426	12,846	11,756	10,646	9,481	8,211	6,873	5,511	4,038	2,450	825	-
587614-001	587614	WEP	18,844	11,650	8,425	5,125	1,725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587948-001	587948	WEP	13,317	9,051	8,438	7,813	7,163	6,513	5,838	5,138	4,508	3,948	3,518	3,218	2,918	2,248	1,888	1,516	1,113	675	225	-	-
587959-001	587959	WEP	4,756	3,213	2,983	2,783	2,558	2,308	2,058	1,808	1,583	1,383	1,233	1,133	1,033	919	788	653	518	375	225	75	-
587960-001	587960	WEP	135,854	92,308	85,893	79,443	72,993	66,393	59,593	52,718	46,343	40,503	36,073	33,033	29,873	26,541	22,986	19,263	15,449	11,325	6,863	2,300	-
Total	830		1,364,951	911,731	814,606	715,356	613,981	532,106	470,106	406,731	348,431	295,331	254,831	227,081	198,681	168,766	136,325	108,763	87,163	63,813	38,688	13,000	-
831																							
592661-002	592661	ConvCenter	37,385	47,178	47,177	45,242	41,673	37,441	32,115	27,265	22,951	18,026	12,562	7,160	2,245	-	-	-	-	-	-	-	-
522696-001	522696	Parks	6,441	8,118	8,118	7,344	5,916	4,318	2,424	738	-	-	-	-	-	-	-	-	-	-	-	-	-
522698-001	522698	Parks	6,441	8,118	8,118	7,344	5,916	4,318	2,424	738	-	-	-	-	-	-	-	-	-	-	-	-	-
512558-002	512558	Facilities	1,271	1,587	1,586	793	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512578-001	512578	Facilities	43,216	54,526	54,525	51,429	45,718	39,325	31,750	25,003	18,894	11,802	3,934	-	-	-	-	-	-	-	-	-	-
551520-001	551520	E911	161,734	202,981	202,956	183,599	147,909	107,951	60,608	18,439	-	-	-	-	-	-	-	-	-	-	-	-	-
561863-001	561863	OCC	39,553	49,916	49,915	47,980	44,166	39,571	34,126	29,277	24,787	19,468	13,567	7,733	2,424	-	-	-	-	-	-	-	-
561867-001	561867	OCC	25,957	32,754	32,754	31,460	28,992	26,128	22,738	19,601	16,664	13,301	9,561	5,828	2,392	405	-	-	-				

# Exhibit E - General Obligation Bonds Schedule of Gross Interest Payments

Issue Number		Departments	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038-2045
831																								
512581-001	512581	OnCenter	143,358	180,919	180,916	173,497	159,550	143,725	123,656	104,253	87,323	68,922	48,769	28,638	10,130	851	-	-	-	-	-	-	-	-
512585-001	512585	BOE	2,831	3,550	3,550	2,632	857	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
592674-001	592674	IT	28,160	35,298	35,296	25,733	8,086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522697-001	522697	Parks	35,268	44,385	44,384	39,179	29,572	18,918	6,332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522701-001	522701	Parks	5,786	7,282	7,281	6,427	4,851	3,104	1,039	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522702-001	522702	Parks	1,296	1,631	1,631	1,440	1,087	695	233	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522703-001	522703	Parks	3,291	4,142	4,142	3,656	2,760	1,766	591	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522704-001	522704	Parks	648	815	815	720	543	348	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522706-001	522706	Parks	518	652	652	576	435	278	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522707-001	522707	Parks	279	351	351	310	234	149	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522707-002	522707	Parks	1,008	1,269	1,269	1,120	845	541	181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
522692-001	522692	Parks	499	628	628	554	418	268	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
561862-001	561862	OCC	17,971	22,676	22,676	21,911	20,499	18,819	16,621	14,564	12,753	10,480	7,815	5,187	2,720	785	-	-	-	-	-	-	-	
561866-001	561866	OCC	32,745	41,318	41,318	39,828	37,080	34,031	30,430	26,808	23,112	18,903	14,200	9,426	4,943	1,427	-	-	-	-	-	-	-	
561870-001	561870	OCC	103,867	131,054	131,053	126,329	117,287	106,606	93,494	81,295	70,652	57,820	42,980	28,530	14,960	4,320	-	-	-	-	-	-	-	
562136-001	562136	On Comm Pub Lib	921	1,148	1,148	574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
535326-001	535326	Transportation	10,139	12,792	12,792	12,314	11,351	10,177	8,789	7,555	6,468	5,240	3,907	2,594	1,360	393	-	-	-	-	-	-	-	
535028-001	535028	Transportation	6,073	7,662	7,662	7,375	6,845	6,258	5,564	4,947	4,312	3,493	2,605	1,729	907	262	-	-	-	-	-	-	-	
535032-001	535032	Transportation	429	540	540	451	288	106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
535012-001	535012	Transportation	43,177	54,345	54,343	47,935	36,109	22,670	10,375	4,595	1,545	0	0	0	0	0	-	-	-	-	-	-	-	
535250-001	535250	Transportation	1,358	1,709	1,709	1,509	1,139	728	244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
535155-001	535155	Transportation	3,821	4,816	4,816	4,473	3,839	3,055	2,060	1,174	395	-	-	-	-	-	-	-	-	-	-	-	-	
535156-001	535156	Transportation	2,368	2,984	2,984	2,772	2,380	1,894	1,277	728	245	-	-	-	-	-	-	-	-	-	-	-	-	
535024-002	535024	Transportation	165	208	208	193	166	132	89	51	17	-	-	-	-	-	-	-	-	-	-	-	-	
535277-001	535277	Transportation	15,835	19,960	19,960	18,339	15,348	12,030	8,111	4,624	1,555	-	-	-	-	-	-	-	-	-	-	-	-	
535352-001	535352	Transportation	21,534	27,144	27,143	24,939	20,871	16,359	11,030	6,289	2,114	-	-	-	-	-	-	-	-	-	-	-	-	
535325-001	535325	Transportation	6,860	8,656	8,656	8,273	7,567	6,784	5,860	5,037	4,312	3,493	2,605	1,729	907	262	-	-	-	-	-	-	-	
535481-001	535481	Transportation	9,007	11,295	11,295	8,235	2,587	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
535353-001	535353	Transportation	43,988	55,454	55,453	52,000	45,627	38,456	29,358	20,787	13,241	4,709	-	-	-	-	-	-	-	-	-	-	-	
535278-001	535278	Transportation	35,187	44,359	44,358	41,596	36,498	30,763	23,485	16,628	10,592	3,767	-	-	-	-	-	-	-	-	-	-	-	
587532-001	587532	WEP	12,926	16,310	16,309	15,736	14,677	13,502	12,115	10,881	9,611	7,860	5,861	3,890	2,040	589	-	-	-	-	-	-	-	
587554-001	587554	WEP	30,540	38,537	38,537	37,294	35,000	31,996	27,833	23,924	20,483	16,593	12,373	8,213	4,307	1,244	-	-	-	-	-	-	-	
587960-001	587960	WEP	6,073	7,662	7,662	7,375	6,845	6,258	5,564	4,947	4,312	3,493	2,605	1,729	907	262	-	-	-	-	-	-	-	
Total	831		1,224,954	1,543,694	1,543,644	1,437,319	1,241,169	1,035,694	804,069	605,909	469,950	355,150	242,275	142,900	58,500	10,800	-	-	-	-	-	-	-	
Complete Total			15,691,544	14,112,564	12,640,264	11,280,914	10,015,554	8,777,939	7,586,845	6,505,236	5,567,383	4,610,391	3,853,164	3,255,383	2,760,829	2,308,819	1,941,394	1,640,616	1,353,281	1,116,369	934,725	803,338	713,388	2,864,394
General Obligation Bonds - Interest (Gross)																							120,334,332	

# Exhibit F - EFC Bonds Schedule of Principal Payments by Project

Project #	Project Name	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
587301	TRUNK SEWER IMP	330,600	339,300	356,700	365,400	374,100	391,500	400,200	421,950	435,000	448,050	461,100	487,200	-	-
587341	PUMP STATIONS IMP	49,400	50,700	53,300	54,600	55,900	58,500	59,800	63,050	65,000	66,950	68,900	72,800	-	-
587351	BREWERTON/ROT SL DRUM THICK	80,000	85,000	85,000	85,000	90,000	-	-	-	-	-	-	-	-	-
587354	OAK ORCHARD WWTP PHASE I IMP	290,000	295,000	305,000	310,000	-	-	-	-	-	-	-	-	-	-
587372	SYR & GEDDES CONV SYS IMP BR 1	235,000	240,000	245,000	250,000	255,000	260,000	-	-	-	-	-	-	-	-
587373	WETZEL RD WWTP UPGRADE BR 300	1,340,000	1,360,000	1,380,000	1,400,000	1,420,000	1,435,000	1,455,000	1,475,000	1,495,000	1,515,000	1,535,000	1,555,000	1,575,000	1,595,000
587383	ENVIRON LAB & FLOW CONTROL	285,000	290,000	295,000	300,000	305,000	315,000	320,000	325,000	-	-	-	-	-	-
587384	L'POOL PUMP STATIONS IMPROVEME	280,000	285,000	295,000	300,000	305,000	310,000	315,000	320,000	325,000	-	-	-	-	-
587398	ACJ BIOSOLIDS HANDLING IMP BR	740,000	755,000	770,000	785,000	800,000	815,000	835,000	850,000	865,000	880,000	890,000	-	-	-
587584	ELECTRONICS PARK TRUNK SEWER	85,000	85,000	90,000	90,000	90,000	90,000	90,000	95,000	95,000	95,000	95,000	95,000	95,000	100,000
587944	MCP-AERATION SYS ENG BR 61-98	55,000	60,000	60,000	60,000	-	-	-	-	-	-	-	-	-	-
587947	MCP-COMP BASED PROC CONTR SYS	15,000	15,000	15,000	15,000	15,000	-	-	-	-	-	-	-	-	-
587948	ACJ MIDLAND AVE CONV ENG	1,290,000	1,318,898	1,336,000	1,371,000	1,390,000	1,411,000	1,431,000	1,451,000	1,472,000	1,497,000	1,517,000	1,537,000	1,562,000	1,583,000
587949	ACJ MALTBIE ST/TEALL & HARBOR	30,000	30,000	30,000	30,000	25,000	25,000	20,000	-	-	-	-	-	-	-
587951	ACJ FRANKLIN ST FCF	61,180	61,180	61,180	65,884	65,884	-	-	-	-	-	-	-	-	-
587953	ACJ KIRKPATRICK ST PS	230,000	235,000	240,000	240,000	245,000	250,000	255,000	-	-	-	-	-	-	-
587954	ACJ METRO IMPR PH PHOS REM/CHE	40,000	40,000	45,000	45,000	45,000	-	-	-	-	-	-	-	-	-
587955	ACJ SIPHON CROSSINGS	5,000	5,000	5,000	5,000	-	-	-	-	-	-	-	-	-	-
587956	ACJ WEST STREET SEWER SEPARATI	20,000	20,000	20,000	20,000	20,000	-	-	-	-	-	-	-	-	-
587958	ACJ ERIE BLVD STORAGE SYSTEM U	50,000	50,000	50,000	50,000	55,000	55,000	-	-	-	-	-	-	-	-
587959	ACJ HARBOR BROOK IN WATER TRMT	1,725,000	1,756,000	1,788,000	1,816,000	1,844,000	1,871,000	1,899,000	1,927,000	1,959,000	1,982,000	2,012,000	2,032,000	2,063,000	2,095,000
587960	ACJ CLINTON ST CONVEYANCES	2,580,000	2,631,817	2,686,000	2,733,000	2,781,000	2,823,000	2,880,000	2,927,000	2,964,000	3,011,000	3,066,000	3,106,000	3,155,000	3,212,000
587961	ACJ FULL SCALE AMMONIA/PHOS RE	915,000	935,000	955,000	970,000	990,000	1,010,000	1,025,000	1,045,000	-	-	-	-	-	-
587963	ACJ SEWER SEPARATION	530,000	535,000	535,000	565,000	575,000	580,000	595,000	610,000	620,000	635,000	475,000	490,000	395,000	400,000
587968	SANITARY DISTRICT IMP BR 18 2/	120,000	120,000	125,000	125,000	130,000	130,000	135,000	135,000	-	-	-	-	-	-
588510	HIAWATHA/SPRING ST CSO	150,000	155,000	155,000	160,000	-	-	-	-	-	-	-	-	-	-
588525	METRO ODOR CONTROL SYSTEM IMP	430,000	440,000	80,000	80,000	-	-	-	-	-	-	-	-	-	-
588609	J'VILLE PEN PUMP STA & CONV SY	95,000	95,000	95,000	100,000	100,000	100,000	105,000	105,000	-	-	-	-	-	-
<b>Total</b>		<b>12,056,180</b>	<b>12,287,895</b>	<b>12,156,180</b>	<b>12,390,884</b>	<b>11,975,884</b>	<b>11,930,000</b>	<b>11,820,000</b>	<b>11,750,000</b>	<b>10,295,000</b>	<b>10,130,000</b>	<b>10,120,000</b>	<b>9,375,000</b>	<b>8,845,000</b>	<b>8,985,000</b>

### Exhibit F - EFC Bonds Schedule of Principal Payments by Project

Project #	Project Name	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
587301	TRUNK SEWER IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587341	PUMP STATIONS IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587351	BREWERTON/ROT SL DRUM THICK	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587354	OAK ORCHARD WWTP PHASE I IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587372	SYR & GEDDES CONV SYS IMP BR 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587373	WETZEL RD WWTP UPGRADE BR 300	1,615,000	1,635,000	1,655,000	1,670,000	1,690,000	1,710,000	-	-	-	-	-	-	-	-
587383	ENVIRON LAB & FLOW CONTROL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587384	L'POOL PUMP STATIONS IMPROVEME	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587398	ACJ BIOSOLIDS HANDLING IMP BR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587584	ELECTRONICS PARK TRUNK SEWER	100,000	100,000	100,000	105,000	105,000	105,000	110,000	110,000	110,000	115,000	120,000	120,000	120,000	120,000
587944	MCP-AERATION SYS ENG BR 61-98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587947	MCP-COMP BASED PROC CONTR SYS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587948	ACJ MIDLAND AVE CONV ENG	1,602,000	1,627,000	1,642,000	1,673,000	1,043,000	1,053,000	33,000	13,000	14,000	14,000	14,000	14,000	15,000	15,000
587949	ACJ MALTBIE ST/TEALL & HARBOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587951	ACJ FRANKLIN ST FCF	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587953	ACJ KIRKPATRICK ST PS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587954	ACJ METRO IMPR PH PHOS REM/CHE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587955	ACJ SIPHON CROSSINGS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587956	ACJ WEST STREET SEWER SEPARATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587958	ACJ ERIE BLVD STORAGE SYSTEM U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587959	ACJ HARBOR BROOK IN WATER TRMT	2,123,000	2,151,000	2,174,000	2,201,000	2,232,000	2,264,000	2,292,000	2,320,000	2,347,000	2,390,000	2,418,000	2,451,000	2,473,000	2,501,000
587960	ACJ CLINTON ST CONVEYANCES	3,255,000	2,352,000	2,384,000	2,421,000	2,450,000	2,483,000	2,515,000	2,342,000	2,369,000	2,406,000	2,438,000	2,465,000	2,492,000	2,519,000
587961	ACJ FULL SCALE AMMONIA/PHOS RE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587963	ACJ SEWER SEPARATION	240,000	245,000	-	-	-	-	-	-	-	-	-	-	-	-
587968	SANITARY DISTRICT IMP BR 18 2/	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588510	HIAWATHA/SPRING ST CSO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588525	METRO ODOR CONTROL SYSTEM IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588609	J'VILLE PEN PUMP STA & CONV SY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>8,935,000</b>	<b>8,110,000</b>	<b>7,955,000</b>	<b>8,070,000</b>	<b>7,520,000</b>	<b>7,615,000</b>	<b>4,950,000</b>	<b>4,785,000</b>	<b>4,840,000</b>	<b>4,925,000</b>	<b>4,990,000</b>	<b>5,050,000</b>	<b>5,100,000</b>	<b>5,155,000</b>

Total Principal due Years 2017-2044 **242,117,023**

### Exhibit G - EFC Bonds Schedule of Gross Interest by Project

Project #	Project Name	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
587301	TRUNK SEWER IMP	185,234	177,624	168,594	158,040	146,334	133,509	118,646	102,398	84,452	65,055	44,932	23,280	-	-
587341	PUMP STATIONS IMP	28,221	27,068	25,740	24,105	22,341	20,460	18,173	15,736	12,959	10,060	6,895	3,600	-	-
587351	BREWERTON/ROT SL DRUM THICK	11,511	9,460	7,067	4,441	1,539	-	-	-	-	-	-	-	-	-
587354	OAK ORCHARD WWTP PHASE I IMP	41,249	32,560	22,822	11,870	-	-	-	-	-	-	-	-	-	-
587372	SYR & GEDDES CONV SYS IMP BR 1	43,015	37,118	30,289	22,638	14,269	4,954	-	-	-	-	-	-	-	-
587373	WETZEL RD WWTP UPGRADE BR 300	1,416,212	1,356,315	1,294,552	1,231,082	1,166,030	1,099,614	1,031,929	962,941	892,625	821,001	748,128	674,068	598,475	521,428
587383	ENVIRON LAB & FLOW CONTROL	116,114	103,309	90,010	76,233	61,986	47,307	31,941	16,133	-	-	-	-	-	-
587384	L'POOL PUMP STATIONS IMPROVEME	100,359	89,866	78,979	67,691	56,077	44,149	31,901	19,347	6,498	-	-	-	-	-
587398	ACJ BIOSOLIDS HANDLING IMP BR	389,923	358,349	325,378	291,237	255,964	219,451	181,792	143,010	103,121	62,271	20,835	-	-	-
587584	ELECTRONICS PARK TRUNK SEWER	92,944	92,275	91,303	90,037	88,520	86,777	84,849	82,728	80,345	77,681	74,786	71,689	68,425	64,942
587944	MCP-AERATION SYS ENG BR 61-98	8,080	6,433	4,452	2,297	-	-	-	-	-	-	-	-	-	-
587947	MCP-COMP BASED PROC CONTR SYS	2,011	1,639	1,217	754	257	-	-	-	-	-	-	-	-	-
587948	ACJ MIDLAND AVE CONV ENG	1,142,271	1,103,971	1,062,416	1,018,046	971,335	921,887	869,775	814,975	757,782	698,178	636,593	573,345	509,336	445,060
587949	ACJ MALTBIE ST/TEALL & HARBOR	7,556	6,347	5,095	3,795	2,581	1,463	450	-	-	-	-	-	-	-
587951	ACJ FRANKLIN ST FCF	15,407	12,525	9,550	6,545	3,282	-	-	-	-	-	-	-	-	-
587953	ACJ KIRKPATRICK ST PS	67,400	58,398	48,757	38,544	27,988	17,043	5,738	-	-	-	-	-	-	-
587954	ACJ METRO IMPR PH PHOS REM/CHE	10,510	8,626	6,681	4,470	2,242	-	-	-	-	-	-	-	-	-
587955	ACJ SIPHON CROSSINGS	686	536	371	191	-	-	-	-	-	-	-	-	-	-
587956	ACJ WEST STREET SEWER SEPARATI	2,682	2,186	1,623	1,005	342	-	-	-	-	-	-	-	-	-
587958	ACJ ERIE BLVD STORAGE SYSTEM U	12,897	10,722	8,519	6,276	3,865	1,296	-	-	-	-	-	-	-	-
587959	ACJ HARBOR BROOK IN WATER TRMT	1,948,005	1,934,291	1,914,659	1,889,292	1,858,413	1,822,426	1,782,042	1,738,200	1,689,423	1,634,148	1,573,266	1,507,334	1,436,957	1,362,711
587960	ACJ CLINTON ST CONVEYANCES	2,449,752	2,428,457	2,391,173	2,345,517	2,292,086	2,230,539	2,161,164	2,085,526	2,002,698	1,911,788	1,813,046	1,706,530	1,593,510	1,474,611
587961	ACJ FULL SCALE AMMONIA/PHOS RE	308,866	272,607	234,750	195,653	154,955	112,252	68,253	22,985	-	-	-	-	-	-
587963	ACJ SEWER SEPARATION	269,570	255,621	240,963	225,511	208,225	189,812	170,335	149,260	127,061	103,728	81,668	64,231	45,798	31,091
587968	SANITARY DISTRICT IMP BR 18 2/	48,637	43,246	37,742	31,905	25,969	19,712	13,370	6,701	-	-	-	-	-	-
588510	HIAWATHA/SPRING ST CSO	21,303	16,809	11,692	6,126	-	-	-	-	-	-	-	-	-	-
588525	METRO ODOR CONTROL SYSTEM IMP	26,902	13,198	4,500	1,532	-	-	-	-	-	-	-	-	-	-
588609	J'VILLE PEN PUMP STA & CONV SY	37,901	33,632	29,276	24,839	20,090	15,277	10,399	5,212	-	-	-	-	-	-
<b>Total</b>		<b>8,805,219</b>	<b>8,493,189</b>	<b>8,148,170</b>	<b>7,779,673</b>	<b>7,384,688</b>	<b>6,987,926</b>	<b>6,580,759</b>	<b>6,165,154</b>	<b>5,756,964</b>	<b>5,383,911</b>	<b>5,000,148</b>	<b>4,624,077</b>	<b>4,252,500</b>	<b>3,899,842</b>



### Exhibit G - EFC Bonds Schedule of Gross Interest by Project

Project #	Project Name	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
587301	TRUNK SEWER IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587341	PUMP STATIONS IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587351	BREWERTON/ROT SL DRUM THICK	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587354	OAK ORCHARD WWTP PHASE I IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587372	SYR & GEDDES CONV SYS IMP BR 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587373	WETZEL RD WWTP UPGRADE BR 300	443,409	364,418	284,454	203,640	121,976	40,450	-	-	-	-	-	-	-	-
587383	ENVIRON LAB & FLOW CONTROL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587384	L'POOL PUMP STATIONS IMPROVEME	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587398	ACJ BIOSOLIDS HANDLING IMP BR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587584	ELECTRONICS PARK TRUNK SEWER	61,258	57,479	53,613	49,796	45,815	41,554	37,097	32,475	27,852	23,072	18,029	12,878	7,726	2,575
587944	MCP-AERATION SYS ENG BR 61-98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587947	MCP-COMP BASED PROC CONTR SYS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587948	ACJ MIDLAND AVE CONV ENG	379,335	312,159	241,211	166,483	104,304	54,797	4,783	3,911	3,344	2,760	2,157	1,548	933	312
587949	ACJ MALTBIE ST/TEALL & HARBOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587951	ACJ FRANKLIN ST FCF	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587953	ACJ KIRKPATRICK ST PS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587954	ACJ METRO IMPR PH PHOS REM/CHE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587955	ACJ SIPHON CROSSINGS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587956	ACJ WEST STREET SEWER SEPARATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587958	ACJ ERIE BLVD STORAGE SYSTEM U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587959	ACJ HARBOR BROOK IN WATER TRMT	1,285,007	1,204,244	1,120,650	1,039,108	955,049	863,813	769,402	672,502	574,440	473,815	370,617	266,123	160,441	53,678
587960	ACJ CLINTON ST CONVEYANCES	1,352,084	1,246,487	1,156,915	1,068,944	978,154	880,049	778,593	677,627	578,633	477,218	373,262	268,033	161,636	54,073
587961	ACJ FULL SCALE AMMONIA/PHOS RE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587963	ACJ SEWER SEPARATION	16,013	7,519	-	-	-	-	-	-	-	-	-	-	-	-
587968	SANITARY DISTRICT IMP BR 18 2/	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588510	HIAWATHA/SPRING ST CSO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588525	METRO ODOR CONTROL SYSTEM IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588609	J'VILLE PEN PUMP STA & CONV SY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>3,537,106</b>	<b>3,192,306</b>	<b>2,856,844</b>	<b>2,527,971</b>	<b>2,205,297</b>	<b>1,880,663</b>	<b>1,589,875</b>	<b>1,386,514</b>	<b>1,184,269</b>	<b>976,866</b>	<b>764,065</b>	<b>548,581</b>	<b>330,737</b>	<b>110,639</b>

Total Gross Interest Outstanding Years 2017-2044 112,353,953

# Exhibit H - EFC Bonds Schedule of Net Interest by Project

Project #	Project Name	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
587301	TRUNK SEWER IMP	92,617	88,812	84,297	79,020	73,167	66,755	59,323	51,199	42,226	32,528	22,466	11,640	-	-
587341	PUMP STATIONS IMP	14,110	13,534	12,870	12,052	11,170	10,230	9,087	7,868	6,479	5,030	3,447	1,800	-	-
587351	BREWERTON/ROT SL DRUM THICK	5,756	4,730	3,534	2,220	770	-	-	-	-	-	-	-	-	-
587354	OAK ORCHARD WWTP PHASE I IMP	20,624	16,280	11,411	5,935	-	-	-	-	-	-	-	-	-	-
587372	SYR & GEDDES CONV SYS IMP BR 1	21,507	18,559	15,145	11,319	7,135	2,477	-	-	-	-	-	-	-	-
587373	WETZEL RD WWTP UPGRADE BR 300	548,527	519,845	466,355	463,949	408,862	379,375	372,117	342,755	321,806	343,718	196,626	161,628	127,895	88,851
587383	ENVIRON LAB & FLOW CONTROL	34,986	28,942	23,054	16,886	13,350	6,900	-	(23,443)	-	-	-	-	-	-
587384	L'POOL PUMP STATIONS IMPROVEME	51,054	45,928	40,551	34,916	29,050	22,964	16,654	10,132	3,411	-	-	-	-	-
587398	ACJ BIOSOLIDS HANDLING IMP BR	186,661	143,839	123,684	74,078	52,733	78,014	61,525	44,507	27,180	10,925	180	-	-	-
587584	ELECTRONICS PARK TRUNK SEWER	46,472	46,138	45,652	45,019	44,260	43,388	42,425	41,364	40,172	38,840	37,393	35,845	34,212	32,471
587944	MCP-AERATION SYS ENG BR 61-98	4,040	3,216	2,226	1,149	-	-	-	-	-	-	-	-	-	-
587947	MCP-COMP BASED PROC CONTR SYS	1,006	820	609	377	128	-	-	-	-	-	-	-	-	-
587948	ACJ MIDLAND AVE CONV ENG	522,331	467,897	399,542	330,856	326,998	321,088	295,478	264,617	237,222	214,279	221,238	187,585	158,448	136,387
587949	ACJ MALTBIE ST/TEALL & HARBOR	2,852	2,271	1,650	1,034	478	63	(669)	-	-	-	-	-	-	-
587951	ACJ FRANKLIN ST FCF	3,373	2,446	1,005	-	-	(5,308)	-	-	-	-	-	-	-	-
587953	ACJ KIRKPATRICK ST PS	22,551	18,140	13,227	8,604	3,862	-	(8,395)	-	-	-	-	-	-	-
587954	ACJ METRO IMPR PH PHOS REM/CHE	2,301	1,791	848	-	-	(3,784)	-	-	-	-	-	-	-	-
587955	ACJ SIPHON CROSSINGS	343	268	186	96	-	-	-	-	-	-	-	-	-	-
587956	ACJ WEST STREET SEWER SEPARATI	1,341	1,093	811	502	171	-	-	-	-	-	-	-	-	-
587958	ACJ ERIE BLVD STORAGE SYSTEM U	6,701	5,612	4,497	3,341	2,071	698	-	-	-	-	-	-	-	-
587959	ACJ HARBOR BROOK IN WATER TRMT	974,003	967,146	957,330	944,646	929,206	911,213	891,021	869,100	844,712	817,074	786,633	753,667	718,478	681,355
587960	ACJ CLINTON ST CONVEYANCES	1,224,876	1,214,228	1,195,587	1,172,759	1,146,043	1,115,270	1,080,582	1,042,763	1,001,349	955,894	906,523	853,265	796,755	737,305
587961	ACJ FULL SCALE AMMONIA/PHOS RE	71,926	56,697	37,463	13,786	-	-	-	(143,990)	-	-	-	-	-	-
587963	ACJ SEWER SEPARATION	124,763	116,562	106,952	100,232	88,477	80,676	73,617	64,841	57,264	28,337	40,834	32,115	22,899	15,545
587968	SANITARY DISTRICT IMP BR 18 2/	14,619	12,196	9,593	7,067	5,625	2,741	-	(9,749)	-	-	-	-	-	-
588510	HIAWATHA/SPRING ST CSO	10,652	8,405	5,846	3,063	-	-	-	-	-	-	-	-	-	-
588525	METRO ODOR CONTROL SYSTEM IMP	13,451	6,599	2,250	766	-	-	-	-	-	-	-	-	-	-
588609	J'VILLE PEN PUMP STA & CONV SY	11,306	9,388	7,553	5,502	4,197	2,159	-	(7,531)	-	-	-	-	-	-
<b>Total</b>		<b>4,034,748</b>	<b>3,821,381</b>	<b>3,573,725</b>	<b>3,339,174</b>	<b>3,147,753</b>	<b>3,034,918</b>	<b>2,892,765</b>	<b>2,554,434</b>	<b>2,581,821</b>	<b>2,446,626</b>	<b>2,215,342</b>	<b>2,037,545</b>	<b>1,858,687</b>	<b>1,691,915</b>

# Exhibit H - EFC Bonds Schedule of Net Interest by Project

Project #	Project Name	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
587301	TRUNK SEWER IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587341	PUMP STATIONS IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587351	BREWERTON/ROT SL DRUM THICK	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587354	OAK ORCHARD WWTP PHASE I IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587372	SYR & GEDDES CONV SYS IMP BR 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587373	WETZEL RD WWTP UPGRADE BR 300	55,053	17,116	-	-	-	(342,081)	-	-	-	-	-	-	-	-
587383	ENVIRON LAB & FLOW CONTROL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587384	L'POOL PUMP STATIONS IMPROVEME	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587398	ACJ BIOSOLIDS HANDLING IMP BR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587584	ELECTRONICS PARK TRUNK SEWER	30,629	28,740	26,807	24,898	22,907	20,777	18,549	16,237	13,926	11,536	9,014	6,439	3,863	1,287
587944	MCP-AERATION SYS ENG BR 61-98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587947	MCP-COMP BASED PROC CONTR SYS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587948	ACJ MIDLAND AVE CONV ENG	96,834	62,134	25,507	10,808	3,544	(257,376)	2,392	1,955	1,672	1,380	1,078	774	467	156
587949	ACJ MALTBIE ST/TEALL & HARBOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587951	ACJ FRANKLIN ST FCF	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587953	ACJ KIRKPATRICK ST PS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587954	ACJ METRO IMPR PH PHOS REM/CHE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587955	ACJ SIPHON CROSSINGS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587956	ACJ WEST STREET SEWER SEPARATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587958	ACJ ERIE BLVD STORAGE SYSTEM U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587959	ACJ HARBOR BROOK IN WATER TRMT	642,504	602,122	560,325	519,554	477,524	431,907	384,701	336,251	287,220	236,908	185,309	133,062	80,221	26,839
587960	ACJ CLINTON ST CONVEYANCES	676,042	623,244	578,458	534,472	489,077	440,025	389,296	338,813	289,317	238,609	186,631	134,016	80,818	27,037
587961	ACJ FULL SCALE AMMONIA/PHOS RE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
587963	ACJ SEWER SEPARATION	8,006	3,760	-	-	-	-	-	-	-	-	-	-	-	-
587968	SANITARY DISTRICT IMP BR 18 2/	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588510	HIAWATHA/SPRING ST CSO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588525	METRO ODOR CONTROL SYSTEM IMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
588609	J'VILLE PEN PUMP STA & CONV SY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>1,509,069</b>	<b>1,337,114</b>	<b>1,191,096</b>	<b>1,089,732</b>	<b>993,052</b>	<b>293,251</b>	<b>794,937</b>	<b>693,257</b>	<b>592,135</b>	<b>488,433</b>	<b>382,032</b>	<b>274,291</b>	<b>165,368</b>	<b>55,319</b>

Total Net Interest Outstanding Years 2017-2044

49,089,919