

Debt Service and Capital Planning

Section 6

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Debt Service

Several methods are available to finance capital improvement projects and other authorized activities. Onondaga County, like most governmental units, borrows money in order to acquire land and equipment, construct buildings, and make renovations and improvements. The cost of these capital projects are normally financed by the issuance of debt obligations which are then repaid over several years along with the interest incurred on the borrowings. An amount is included in the County's annual operating budget to make these payments, which is defined as "debt service". This policy enables the cost of these capital assets to be borne by the present and future taxpayers receiving the benefit of the capital assets or improvements.

The use of debt, usually through the issuance of bonds, to finance capital projects has several advantages. Primarily, it allows the County to obtain for current use a capital facility that would go beyond its capacity to finance on a pay-as-you-go basis. In addition, the flexibility associated with the repayment of bonds allows the County to smooth out its expenditure pattern over a period of several years. The structure of the principal payments cumulatively effects both interest payments and subsequently the County's operating budget.

In general, the State Legislature has granted the power and defined the procedure for the County to borrow by the enactment of the Local Finance Law. Pursuant to the Local Finance Law, its Charter and the County Law, the County authorizes the issuance of bonds by the adoption of a bond resolution, which must be approved by at least two-thirds of the members of the County Legislature. Through the bond resolutions, the County Legislature delegates to the Chief Fiscal Officer the power to authorize and sell bond anticipation notes in anticipation of authorized bonds.

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 (PPU), which ties in with the maximum maturity of the bonds subject to legal restrictions. Within these bonding requirements, the County has considerable flexibility in its borrowing program and can issue two basic forms of debt instruments: Serial Bonds (Bonds) and Bond Anticipation Notes (BANs). BANs, due to their short term (12 months or less), are used to facilitate borrowing for projects that have a PPU of 5 years or less, or are relatively small in amount or otherwise inappropriate for long-term borrowing.

In addition, BANs allow the County the option of conversion to Serial Bonds when interest rates are most beneficial for long-term debt. Statutory law in New York permits BANs to be renewed each year provided annual principal installments are made prior to the second renewal, if the principal is not paid off after the fourth renewal (5 years from the original date of borrowing), the BAN must be converted to a Serial Bond. There is an exception to the 4-time renewal limitation on BANs for Special District Borrowing for Water Environment Protection and Water. BANs may be renewed indefinitely for Special Districts as long as they do not violate the assigned PPU.

The Local Finance Law contains provisions providing the County with power to issue certain other short-term general obligation indebtedness, including revenue and tax anticipation notes and budget and capital notes. Onondaga County has not used any of these short-term borrowing options since 1992.

Bond Advisors

Bond counsel and our financial advisors play an important role in the bond issuing process. They can be influential in reducing borrowing costs by advising the issuing government on how best to structure the issue and when best to go to market. They assist us in the preparation of the County's Official Statement,

insuring that it meets the legal requirements and includes the information to present the County's financial status and economic activities and comparisons.

They assist us in the application for bond ratings, which provide investors with a symbol of credit quality that is easily recognized. Through careful fiscal planning and sound financial management, Onondaga County received the following ratings: AAA by Fitch, AA+ by S&P and Aa2 by Moody's.

Market Factors Affecting Bonds

The market for Bonds and Notes could be affected by a variety of factors, some of which are beyond the County's control. There can be no assurance that adverse events at the state level will not occur which might affect the market price of outstanding Bonds and Notes and the market for additional debt. If a significant default or other financial crisis should occur in the affairs of the federal or state government or of any of its agencies or political subdivisions, it could impair the acceptability of obligations issued and bond ratings of borrowers, such as Onondaga County.

The traditional market for our debt has changed over the years, from primarily banks and individual investors, to the major brokerage houses and fund investors. The County looks to market conditions when scheduling its bond sale to optimize savings to the taxpayers.

Debt Management Planning

Onondaga County's debt management planning covers all debt issued by the County including debt wholly supported by special district fund revenues. The County's comprehensive approach to debt management includes: administrative review, emphasis on pay-as-you-go within defined limits, adherence to multiple policies established by the legislature, adherence to local finance law, and comprehensive use of bond counsel and financial advisors.

The County has been proactive in making debt management a priority. In 2009, the County took advantage of the available incentives and issued Build America Bonds (BAB's) and Recovery Zone Bonds (RZ's) totaling \$22.4 million. Over the 16 year life of the BAB's the County expected to realize the Federal Government's 35% interest subsidy of \$3.7 million and for the 20 years of the RZ's, a 45% subsidy totaling over \$2.3 million. The Federal Government's sequestration has eliminated a percentage of the annual subsidy beginning in March 2013 extending through September 20, 2023.

As part of the 2008 budget process, the County amended its 1999 resolution that established the 10% fund balance goal. The calculation for General Fund revenues was formally adjusted to reflect the 2006 NYS accounting change for sales tax passed-through to other municipalities. Since the County ended 2006 with its fund balance at 12.9% of General Fund revenues, the 2008 budget allocated \$8 million to fund projects for which the County had not yet borrowed. That provided approximately 15 years of \$750,000 annual tax relief.

The County actively monitors its outstanding debt, reviewing candidates for refunding. Taking advantage of the lowest interest-rate environment in forty years, the County over the past four years has refunded multiple debt issuances which include: approximately \$19.6 million of its bonds in June 2014 saving \$1.2 million, \$11.3 million in June 2015 saving an additional \$864 thousand through 2027, and \$33.88 million in November 2016 saving \$3.75 million through 2030.

The County has established the following policies to guide its management of debt (calculations based on 2018 Budget):

1. Debt service costs paid through the General Fund will not exceed 5.5% of total General Fund revenue. For 2018, debt service costs are 4.45% of revenues.
2. The County's total net direct indebtedness will not exceed \$700 per capita or 1.5% of the full valuation of taxable property in the County.
3. Net general fund indebtedness is \$546 per capita and 0.916% of the County's full valuation. (Population source is 2010 U. S. Census Bureau)
4. Rapid pay down of debt will continue as a goal of the County's debt management policies, with a target of 65% of outstanding principal scheduled for retirement within 10 years. This goal may be modified to reflect changes in the interest rate environment, which may argue for shorter or longer retirement terms. Currently, 72% of the County's outstanding general fund debt is scheduled to be retired within 10 years.

In addition, the following capital planning and debt management strategies will continue:

Where possible, capital expenditures will be funded through pay-as-you-go programs and alternative financing mechanisms, such as state loan programs and as federal pilot projects;

Reviewing operating cost and revenue implications for all proposed capital projects as a part of the annual 60 year capital improvement planning process;

Maintaining an inventory of capital assets and developing plans to reduce maintenance costs and extend the useful life of the County's infrastructure, including the development and implementation of preventive maintenance programs.

Debt Management - Department of Water Environment Protection

The County has taken advantage of zero-interest short-term notes and subsidized-interest loans with the NYS Environmental Facilities Corp., as well as Federal and State grants. This is especially true for the Onondaga Lake cleanup projects.

Debt Limits

Local Finance Law prohibits the County from issuing debt in excess of the Debt Limit. The 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. As of September 6, 2017 the County will have exhausted 16.25% of its Debt-Contracting Power, a minimal increase from the 15.5% in 2000. Despite the issuance of new debt the percentage of Debt-Contracting Power has increased marginally due to the use of tobacco bond revenues to defease \$115M of General Fund debt (2001 & 2005). The following table is the calculation of Total Net Indebtedness:

Calculation of Total Net Indebtedness (As of September 6, 2017)

5 Year Average Full Valuation of Taxable Real Property		\$27,217,734,597
Debt Limit (7% of 5 year average)		\$1,905,241,422
Outstanding Indebtedness:		
Bonds	\$ 607,542,023	
Bond Anticipation Notes	\$ 28,165,093	
Outstanding Gross Indebtedness	\$ 635,707,116	
Less Exclusions	\$ (326,073,542)	
Total Net Indebtedness		\$309,633,574
Net Debt-Contracting Margin		\$1,596,607,848
Percentage of Debt-Contracting Power Exhausted		16.25% ¹

¹ The Debt Limit of the County is computed in accordance with the provisions of Article VIII of the State Constitution and Title 9 of Article 2 of the Local Finance Law

Debt Limit and Debt Margin

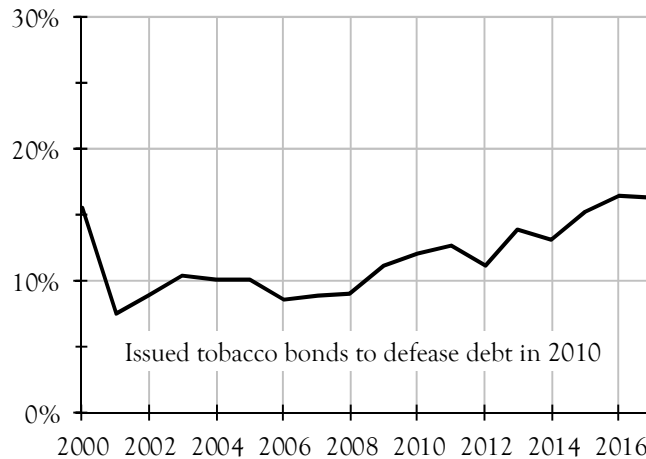
Onondaga County's use of its constitutional debt limit declined dramatically in 2001 when it defeased \$95M of general fund debt, using proceeds from tobacco revenue bonds. A second tobacco bond sale in 2005 enabled an additional \$20M in debt to be defeased. The current percentage of debt contracting power that has been exhausted is 16.25%, which is a marginal increase over the 15.5% in 2000, and down in comparison to an average of 17.8% for the years 1994 - 2000. The debt margin is more than 5 times the total net indebtedness and provides ample flexibility to continue to meet the capital needs of the County.

2017 Debt Limit and Debt Margin (as of September 6, 2017)

Debt Limit	\$1,905,241,422
Total Net Indebtedness	\$309,633,574
Debt Margin	\$1,596,607,848
Percentage of Debt Limit Used	16.25%

Note: The constitutional debt margin is the amount of additional debt, which a municipality may legally assume at a particular time and is calculated by subtracting the total net indebtedness from the debt limit. The debt limit is equal to 7% of the 5 year full value of taxable real property while the total net indebtedness equals total outstanding debt minus approved exclusions.

Percentage of Debt Limit Used



Debt Service Summary - All Funds

2018

	Countywide Tax Levy	Van Duyn	Water/Ad Valorem Tax	WEP/Unit Charge	Total
General Oblig. Principal	25,271,055	410,000	1,512,100	7,156,846	34,350,001
General Oblig. Interest	10,256,532	70,525	1,331,756	3,528,753	15,187,566
NYS EFC* Principal	0	0	0	12,287,895	12,287,895
NYS EFC* Interest	0	0	0	4,016,888	4,016,888
Estimated EFC* Principal	0	0	0	0	0
Estimated EFC* Interest	0	0	0	400,000	400,000
Fiscal Agent Fees	40,530	0	0	545,169	585,699
Debt Service Totals	35,568,117	480,525	2,843,856	27,935,551	66,828,049
RBD/Subsidy/Other**	6,394,517	480,525	9,671	1,928,284	8,812,997
Charges to Operating Fund	29,173,600	0	2,834,185	26,007,267	58,015,052

Note: WEP - Water Environment Protection (Consolidated Sanitary District and Drainage Districts)

*EFC - Environmental Facilities Corporation, a New York State agency financing environmental projects.

**Includes subsidies for BAB & RZ Bonds & Oneida Exclusivity

**Debt Service Summary - Countywide Debt Service
2018**

Department/Fund	General Obligation		Fiscal Agent Fees	Debt Service Totals	RBD/ Fed Subsidy Other Sources	Charge to Operating Fund
	Principal	Interest				
Office of Environment	181,000	32,975	0	213,975	32,975	181,000
Board of Elections	48,019	6,670	0	54,689	0	54,689
Community College	2,590,054	1,411,557	0	4,001,611	195,429	3,806,182
OnCenter Complex	834,180	499,195	40,000	1,373,375	131,737	1,241,638
Information Technology	1,581,478	300,406	0	1,881,884	78,658	1,803,226
Facilities	3,767,960	1,290,816	530	5,059,306	349,408	4,709,898
Correction	110,082	63,298	0	173,380	10,000	163,380
Sheriff/Jail	250,000	6,250	0	256,250	0	256,250
Children & Family Services	304,663	126,898	0	431,561	0	431,561
Parks & Recreation	2,725,215	2,606,980	0	5,332,195	3,246,919	2,085,276
Library	570,012	244,978	0	814,990	364,480	450,510
Transportation	8,517,149	3,117,627	0	11,634,776	1,887,849	9,746,927
Emergency Services	3,791,243	548,882	0	4,340,125	97,062	4,243,063
TOTALS	25,271,055	10,256,532	40,530	35,568,117	6,394,517	29,173,600

Debt Service Summary - Special Districts

2018

	Van Duyn ¹	Water District	Consol. San Dist	Meadow brook DD	Bear Trap DD	Bloody Brook DD	Harbor Brook DD	Total
General Oblig. Principal	410,000	1,512,100	6,564,731	386,115	14,000	67,000	125,000	9,078,946
General Oblig. Interest	70,525	1,331,756	3,387,745	84,366	15,597	22,681	18,364	4,931,034
NYS EFC* Principal	0	0	12,287,895	0	0	0	0	12,287,895
NYS EFC* Interest	0	0	4,016,888	0	0	0	0	4,016,888
Estimated EFC* Principal	0	0	0	0	0	0	0	0
Estimated EFC* Interest	0	0	400,000	0	0	0	0	400,000
Fiscal Agent Fees	0	0	545,169	0	0	0	0	545,169
Debt Service Totals	480,525	2,843,856	27,202,428	470,481	29,597	89,681	143,364	31,259,932
RBD/Fed ² Subsidy/ Other	480,525	9,671	1,928,284	0	0	0	0	2,418,480
Charges to Operating Fund	0	2,834,185	25,274,144	470,481	29,597	89,681	143,364	28,841,452

¹ Van Duyn debt will be paid with proceeds of Van Duyn's sale

² Includes Reserves for Bonded Debt, and BAB & RZ Subsidies

County Indebtedness
Authorized and Unissued

As of September 6, 2017

Department	Authorized and Unissued
Office of Environment	750,000
Facilities	6,118,422
Parks & Recreation	2,412,699
County Clerk	600,000
Children and Family Services	253,000
Transportation	13,137,500
Emergency Services	1,091,852
Sheriff	100,000
Community College	2,800,000
Water Environment Protection	138,895,510
Total	166,908,983

Serial Bonds 2018 Debt Service

Title of Bond	Final Maturity	Interest Rate*	Amount Issued	Initial Interest	2018 Principal	2018 Interest	Balance (P) 12/31/2018
N.Y.S. E.F.C. Bonds 1998*	2018	2.996%	6,030,821	3,386,630	360,000	2,971	0
N.Y.S. E.F.C. Bonds 2000*	2020	2.996%	1,383,178	881,653	80,000	3,628	160,000
N.Y.S. E.F.C. Bonds 2001A*	2020	2.996%	9,078,380	4,562,877	515,000	28,169	1,060,000
N.Y.S. E.F.C. Bonds 2001B*	2021	2.306%	2,195,433	1,108,934	120,000	6,642	365,000
N.Y.S. E.F.C. Bonds 2002A*	2021	4.522%	1,980,745	1,980,745	101,180	4,236	327,948
N.Y.S. E.F.C. Bonds 2002G*	2028	1.306%	14,681,217	5,432,687	630,000	120,905	5,770,000
N.Y.S. E.F.C. Bonds 2003A*	2022	4.311%	1,128,465	1,583,722	60,000	1,128	240,000
N.Y.S. E.F.C. Bonds 2003F*	2023	3.823%	4,657,961	1,868,010	255,000	19,588	1,330,000
N.Y.S. E.F.C. Bonds 2004D*	2024	4.493%	9,579,475	4,760,948	505,000	50,526	3,245,000
N.Y.S. E.F.C. Bonds 2005A*	2024	3.888%	17,469,284	7,080,442	935,000	56,697	5,995,000
N.Y.S. E.F.C. Bonds 2005B*	2025	3.689%	5,495,439	2,218,182	285,000	45,928	2,170,000
N.Y.S. E.F.C. Bonds 2006C*	2036	4.960%	44,610,657	44,610,657	1,450,000	732,035	28,580,000
N.Y.S. E.F.C. Bonds 2007D*	2036	4.180%	41,442,558	26,106,369	1,615,000	471,517	24,490,000
N.Y.S. E.F.C. Bonds 2008A&B*	2028	4.270%	1,645,373	801,562	80,000	20,923	900,000
General Obligation Bonds 2009A	2029	3.738%	61,725,000	13,881,162	4,875,000	294,500	4,925,000
GO Refund Bonds 2009	2023	2.400%	33,345,000	8,234,590	2,105,000	296,056	6,845,000
N.Y.S. E.F.C. Bonds 2010C*	2030	2.412%	2,972,800	1,150,144	135,000	35,868	1,840,000
General Obligation Bonds 2010A	2019	2.093%	31,150,000	7,611,076	3,050,000	226,250	3,000,000
GO Bonds 2010B (BAB's)	2026	4.761%	17,570,000	10,532,039	0	828,406	17,570,000
GO Bonds 2010B (RZ's)	2030	5.709%	4,905,000	7,021,077	0	282,352	4,905,000
N.Y.S. E.F.C. Bonds 2011C*	2031	1.753%	15,603,494	6,787,783	720,000	205,405	10,905,000
General Obligation Bonds 2011	2030	3.006%	33,755,000	11,688,907	2,525,000	164,125	2,525,000
N.Y.S. E.F.C. Bonds 2012B*	2034	1.015%	11,395,171	4,410,561	475,000	138,035	9,105,000
General Obligation Bonds 2012	2037	2.699%	51,425,000	17,994,687	2,900,000	1,347,875	35,350,000
GO Refund Bonds 2012	2025	2.511%	20,615,000	3,844,196	2,355,000	301,913	5,925,000
N.Y.S. E.F.C. Bonds 2012E*	2032	0.779%	4,100,953	1,238,401	185,000	41,830	3,045,000
General Obligation Bonds 2013	2033	3.169%	67,870,000	30,461,070	5,500,000	2,467,500	47,925,000
N.Y.S. E.F.C. Bonds 2014D*	2044	0.622%	128,800,968	79,460,686	3,620,000	1,993,826	114,675,000
General Obligation Bonds 2014	2034	2.632%	34,800,000	12,060,823	2,225,000	713,875	26,600,000
GO Refund Bonds 2014	2036	2.194%	19,600,000	5,951,257	2,900,000	1,169,938	14,515,000
General Obligation Bonds 2015	2045	3.433%	79,900,000	46,215,073	2,430,000	2,998,581	75,105,000
GO Refund Bonds 2015	2027	2.215%	11,370,000	3,592,519	1,295,000	461,625	10,065,000
QECB 2015	2025	3.500%	2,650,000	1,041,161	265,000	104,145	1,855,000
General Obligation Bonds 2016	2036	2.080%	26,500,000	7,770,442	1,920,000	911,731	24,580,000
GO Refund Bonds 2016	2030	1.719%	35,885,000	10,716,026	5,001	1,543,694	35,555,000
General Obligation Bonds 2017	2037	2.762%	21,780,000	8,219,576	0	1,075,001	21,780,000
N.Y.S. E.F.C. Bonds	2037	2.479%	3,886,715	524,856	161,715	37,030	3,570,000
TOTAL:			882,984,087	406,791,530	46,637,896	19,204,454	556,797,948

*Interest Rates for General Obligation Bonds are based on the True Interest Costs, while rates for EFC Loans are based on the budget year coupon per maturity

Serial Bonds 2018 Debt Service by Department

	No.	Year Issued	Final Maturity	Interest Rate	2018 Serial Bond Payments		
					Principal	Interest	Total
Office of Environment							
General Obligation Bonds	830	2016	2036	2.08%	181,000	32,975	213,975
Total: Office of Environment					181,000	32,975	213,975
Board of Elections							
General Obligation Bonds	770	2011	2030	5.00%	48,000	3,120	51,120
General Obligation Refunding Bonds	831	2016	2030	1.00%	19	3,550	3,569
Total: Board of Elections					48,019	6,670	54,689
Onondaga Community College							
General Obligation Bonds, Series A	740	2009	2029	3.74%	295,000	17,700	312,700
General Obligation Bonds, Series A	760	2010	2019	2.09%	330,000	25,250	355,250
GO Bonds, Series B (Bab's)	761	2010	2026	4.76%	0	134,344	134,344
GO Bonds, Series B (Rz's)	762	2010	2030	5.71%	0	107,924	107,924
General Obligation Bonds	770	2011	2030	3.01%	362,000	23,450	385,450
General Obligation Bonds	780	2012	2030	2.70%	68,000	36,760	104,760
General Obligation Refunding Bonds	790	2012	2025	2.51%	147,000	50,253	197,253
General Obligation Bonds	800	2013	2033	3.17%	540,000	258,250	798,250
General Obligation Bonds	810	2014	2034	2.63%	115,000	37,325	152,325
General Obligation Refunding Bonds	811	2014	2026	2.19%	223,400	96,010	319,410
General Obligation Bonds	820	2015	2045	3.43%	1,900	1,689	3,589
General Obligation Refunding Bonds	821	2015	2027	2.22%	297,370	99,519	396,889
General Obligation Bonds	830	2016	2036	2.08%	210,000	160,001	370,001
General Obligation Refunding Bonds	831	2016	2033	1.00%	384	316,024	316,408
General Obligation Bonds	840	2017	2037	0.00%	0	47,058	47,058
Total: Community College					2,590,054	1,411,557	4,001,611
Correction							
General Obligation Bonds, Series A	740	2009	2029	3.74%	100,000	6,000	106,000
General Obligation Bonds	800	2013	2033	3.17%	10,000	250	10,250
General Obligation Refunding Bonds	831	2016	2030	1.00%	82	57,048	57,130
Total: Corrections					110,082	63,298	173,380

Serial Bonds 2018 Debt Service by Department

	No.	Year Issued	Final Maturity	Interest Rate	2018 Serial Bond Payments		
					Principal	Interest	Total
OnCenter Complex							
General Obligation Bonds, Series A	740	2009	2029	3.74%	409,000	26,140	435,140
General Obligation Bonds, Series A	760	2010	2019	2.09%	135,000	10,625	145,625
GO Bonds, Series B (Bab's)	761	2010	2026	4.76%	0	52,535	52,535
GO Bonds, Series B (Rz's)	762	2010	2030	5.71%	0	39,143	39,143
General Obligation Bonds	770	2011	2030	3.01%	50,000	3,250	53,250
General Obligation Bonds	780	2012	2024	2.70%	18,000	6,500	24,500
General Obligation Refunding Bonds	790	2012	2024	2.51%	75,000	15,995	90,995
General Obligation Bonds	800	2013	2033	3.17%	50,000	40,850	90,850
General Obligation Bonds	820	2015	2045	3.43%	20,900	18,888	39,788
General Obligation Bonds	830	2016	2036	2.08%	75,924	57,173	133,097
General Obligation Refunding Bonds	831	2016	2030	0.00%	356	228,096	228,452
Total: OnCenter Complex					834,180	499,195	1,333,375
Information Technology							
General Obligation Bonds	770	2011	2030	3.01%	450,000	29,250	479,250
General Obligation Bonds	780	2012	2021	2.70%	500,000	90,500	590,500
General Obligation Bonds	800	2013	2033	3.17%	590,000	108,000	698,000
General Obligation Bonds	820	2015	2045	3.43%	41,300	37,358	78,658
General Obligation Refunding Bonds	831	2016	2030	0.00%	178	35,298	35,476
Total: Information Technology					1,581,478	300,406	1,881,884
Facilities Management							
General Obligation Bonds, Series A	740	2009	2029	3.74%	181,000	10,860	191,860
General Obligation Refunding Bonds	750	2009	2023	2.40%	1,744,000	261,306	2,005,306
General Obligation Bonds	780	2012	2032	2.70%	300,000	206,950	506,950
General Obligation Refunding Bonds	790	2012	2025	2.51%	270,000	40,218	310,218
General Obligation Bonds	800	2013	2033	3.17%	290,000	104,550	394,550
General Obligation Bonds	810	2014	2034	2.63%	370,000	254,313	624,313
General Obligation Refunding Bonds	811	2014	2026	2.19%	166,400	64,535	230,935
General Obligation Bonds	820	2015	2045	3.43%	66,300	59,324	125,624
General Obligation Refunding Bonds	821	2015	2027	2.22%	115,111	41,137	156,248
QECCB	822	2015	2025	3.50%	265,000	104,145	369,145
General Obligation Refunding Bonds	831	2016	2030	0.00%	149	56,113	56,262
General Obligation Bonds	840	2017	2037	0.00%	0	87,365	87,365
Total: Facilities					3,767,960	1,290,816	5,058,776

Serial Bonds 2018 Debt Service by Department

	No.	Year Issued	Final Maturity	Interest Rate	2018 Serial Bond Payments		
					Principal	Interest	Total
Sheriff							
General Obligation Bonds	800	2013	2033	3.17%	210,000	5,250	215,250
General Obligation Refunding Bonds	811	2014	2026	2.19%	40,000	1,000	41,000
Total: Sheriff/Jail					250,000	6,250	256,250
Children and Family Services							
General Obligation Refunding Bonds	811	2014	2026	2.19%	256,700	105,445	362,145
General Obligation Refunding Bonds	821	2015	2027	2.22%	47,963	21,453	69,416
Total: Children and Family Services					304,663	126,898	431,561
Parks & Recreation							
General Obligation Bonds, Series A	740	2009	2029	3.74%	80,000	4,800	84,800
General Obligation Bonds, Series A	760	2010	2019	2.09%	320,000	24,250	344,250
GO Bonds, Series B (Bab's)	761	2010	2026	4.76%	0	93,669	93,669
GO Bonds, Series B (Rz's)	762	2010	2030	5.71%	0	41,445	41,445
General Obligation Bonds	770	2011	2030	3.01%	375,000	24,375	399,375
General Obligation Bonds	780	2012	2027	2.70%	217,000	98,260	315,260
General Obligation Bonds	800	2013	2033	3.17%	300,000	177,500	477,500
General Obligation Bonds	810	2014	2034	2.63%	120,000	62,050	182,050
General Obligation Bonds	820	2015	2045	3.43%	1,160,000	1,849,963	3,009,963
General Obligation Bonds	830	2016	2036	2.08%	153,000	115,865	268,865
General Obligation Refunding Bonds	831	2016	2030	0.00%	215	77,391	77,606
General Obligation Bonds	840	2017	2037	0.00%	0	37,412	37,412
Total: Parks & Recreation					2,725,215	2,606,980	5,332,195
Library							
General Obligation Bonds	770	2011	2030	3.01%	30,000	1,950	31,950
General Obligation Bonds	780	2012	2020	2.70%	265,000	32,750	297,750
General Obligation Bonds	800	2013	2033	2.17%	170,000	114,650	284,650
General Obligation Bonds	820	2015	2045	3.43%	105,000	94,481	199,481
General Obligation Refunding Bonds	831	2016	2030	0.00%	12	1,148	1,160
Total: Library					570,012	244,979	814,991

Serial Bonds 2018 Debt Service by Department

	No.	Year Issued	Final Maturity	Interest Rate	2018 Serial Bond Payments		
					Principal	Interest	Total
Transportation (County Road Fund)							
General Obligation Bonds, Series A	740	2009	2029	3.38%	340,000	20,200	360,200
General Obligation Bonds, Series A	760	2010	2019	2.09%	1,465,000	111,625	1,576,625
GO Bonds, Series B (Bab's)	761	2010	2026	4.76%	0	409,430	409,430
GO Bonds, Series B (Rz's)	762	2010	2030	5.71%	0	16,706	16,706
General Obligation Bonds	770	2011	2030	3.01%	1,100,000	71,580	1,171,580
General Obligation Bonds	780	2012	2032	2.70%	769,000	337,415	1,106,415
General Obligation Refunding Bonds	790	2012	2024	2.51%	1,604,000	124,166	1,728,166
General Obligation Bonds	800	2013	2033	3.17%	590,000	363,350	953,350
General Obligation Bonds	810	2014	2034	2.63%	1,242,000	370,875	1,612,875
General Obligation Refunding Bonds	811	2014	2026	2.19%	605,600	83,112	688,712
General Obligation Bonds	820	2015	2045	3.43%	285,000	258,325	543,325
General Obligation Refunding Bonds	821	2015	2027	2.22%	86,333	16,357	102,690
General Obligation Bonds	830	2016	2036	2.08%	429,500	249,279	678,779
General Obligation Refunding Bonds	831	2016	2030	0.00%	716	325,117	325,833
General Obligation Bonds	840	2017	2037	0.00%	0	360,090	360,090
Total: Transportation					8,517,149	3,117,627	11,634,776
Emergency Services							
General Obligation Bonds, Series A	740	2009	2029	3.74%	3,050,000	183,000	3,233,000
General Obligation Bonds, Series A	760	2010	2019	2.09%	215,000	9,875	224,875
GO Bonds, Series B (Bab's)	761	2010	2026	4.76%	0	17,325	17,325
General Obligation Bonds	810	2014	2034	2.63%	171,000	14,025	185,025
General Obligation Refunding Bonds	811	2014	2026	2.19%	261,400	40,269	301,669
General Obligation Bonds	820	2015	2045	3.43%	14,600	13,216	27,816
General Obligation Refunding Bonds	821	2015	2027	2.22%	76,741	10,206	86,947
General Obligation Refunding Bond	831	2016	2030	0.00%	2,502	202,981	205,483
General Obligation Bonds	840	2017	2040	0.00%		57,985	57,985
TOTAL: Emergency Services					3,791,243	548,882	4,340,125
Van Duyn							
General Obligation Bonds, Series A	760	2010	2019	2.09%	300,000	23,250	323,250
GO Bonds, Series B (Bab's)	761	2010	2026	4.48%	0	14,025	14,025
General Obligation Bonds	800	2013	2033	3.17%	110,000	33,250	143,250
Total: Van Duyn					410,000	70,525	480,525

Serial Bonds 2018 Debt Service by Department

	No.	Year Issued	Final Maturity	Interest Rate	2018 Serial Bond Payments		
					Principal	Interest	Total
Consolidated Sanitary District							
N.Y.S. E.F.C. 1998 Series B Bonds	595	1998	2018	3.00%	360,000	2,971	362,971
N.Y.S. E.F.C. 2000 Series A Bonds	615	2000	2020	3.00%	80,000	3,628	83,628
N.Y.S. E.F.C. 2001 Series A Bonds	625	2001	2020	3.00%	515,000	28,169	543,169
N.Y.S. E.F.C. 2001 Series B Bonds	635	2001	2021	2.31%	120,000	6642	126,642
N.Y.S. E.F.C. 2002 Series A Bonds	645	2002	2021	4.52%	101,180	4236	105,416
N.Y.S. E.F.C. 2002 Series G Bonds	655	2002	2028	1.31%	630,000	120,905	750,905
N.Y.S. E.F.C. 2003 Series A Bonds	665	2003	2022	4.31%	60,000	1,128	61,128
N.Y.S. E.F.C. 2003 Series F Bonds	675	2003	2023	3.82%	255,000	19,588	274,588
N.Y.S. E.F.C. 2004 Series D Bonds	685	2004	2024	4.49%	505,000	50,526	555,526
N.Y.S. E.F.C. 2005 Series A Bonds	695	2005	2024	3.89%	935,000	56,697	991,697
N.Y.S. E.F.C. 2005 Series B Bonds	705	2005	2025	3.69%	285,000	45,928	330,928
N.Y.S. E.F.C. 2006 Series C Bonds	715	2006	2036	4.96%	1,450,000	732,035	2,182,035
N.Y.S. E.F.C. 2007 Series D Bonds	725	2007	2036	4.18%	1,615,000	471,517	2,086,517
N.Y.S. E.F.C. 2008 Series A&B Bonds	735	2008	2028	4.27%	80,000	20,923	100,923
General Obligation Bonds, Series A	740	2009	2029	3.74%	415,000	25,500	440,500
N.Y.S. E.F.C. 2010 Series C Bonds	755	2010	2030	2.41%	135,000	35,868	170,868
General Obligation Bonds, Series A	760	2010	2019	2.09%	285,000	21,375	306,375
GO Bonds, Series B (BAB's)	761	2010	2026	4.76%	0	107,078	107,078
GO Bonds, Series B (RZ's)	762	2010	2030	5.71%	0	77,134	77,134
N.Y.S. E.F.C. 2011 Series C Bonds	765	2011	2031	1.75%	720,000	205,405	925,405
General Obligation Bonds	770	2011	2030	3.01%	110,000	7,150	117,150
N.Y.S. E.F.C. 2012 Series B Bonds	775	2012	2034	1.02%	475,000	138,035	613,035
General Obligation Bonds	780	2012	2032	2.70%	466,000	294,270	760,270
General Obligation Refunding Bonds	790	2012	2025	2.51%	162,000	41,854	203,854
N.Y.S. E.F.C. 2012 Series E Bonds	795	2012	2032	0.78%	185,000	41,830	226,830
General Obligation Bonds	800	2013	2033	3.17%	2,010,000	685,650	2,695,650
N.Y.S. E.F.C. 2014 Series B Bonds	805	2014	2044	0.62%	3,620,000	1,993,826	5,613,826
General Obligation Bonds	810	2014	2034	2.63%	655,000	296,525	951,525
General Obligation Refunding Bonds	811	2014	2026	2.19%	574,400	263,916	838,316
General Obligation Bonds	820	2015	2045	3.34%	505,000	457,550	962,550
General Obligation Refunding Bonds	821	2015	2027	2.22%	556,371	223,060	779,431
General Obligation Bonds	830	2016	2036	2.08%	825,576	262,519	1,088,095
General Obligation Refunding Bonds	831	2016	2030	0.00%	384	239,300	239,684
N.Y.S. E.F.G 2016 Series B Bonds	815	2016	2037	0.00%	161,715	37,030	198,745
General Obligation Bonds	840	2017	2037	0.00%	0	384,864	384,864
Total: Consol. Sanitary District					18,852,626	7,404,632	26,257,258

Serial Bonds 2018 Debt Service by Department

	No.	Year Issued	Final Maturity	Interest Rate	2018 Serial Bond Payments		
					Principal	Interest	Total
Drainage Districts							
General Obligation Bonds, Series A	740	2009	2029	3.74%	5,000	300	5,300
General Obligation Refunding Bonds	750	2009	2023	2.40%	361,000	34,750	395,750
General Obligation Bonds	780	2012	2032	2.99%	14,000	9,475	23,475
General Obligation Refunding Bonds	790	2012	2025	2.51%	97,000	29,426	126,426
General Obligation Refunding Bonds	821	2015	2027	2.22%	115,111	49,893	165,004
General Obligation Refunding Bonds	831	2016	2030	0.00%	4	1,627	1,631
General Obligation Bonds	840	2017	2037	0.00%	0	15,536	15,536
Total: Drainage Districts					592,115	141,007	733,122
Water District							
General Obligation Bonds	780	2012	2037	2.70%	283,000	234,995	517,995
General Obligation Bonds	800	2013	2033	3.17%	630,000	575,950	1,205,950
General Obligation Bonds	810	2014	2034	2.63%	187,000	133,825	320,825
General Obligation Refunding Bonds	811	2014	2026	2.19%	137,100	60,589	197,689
General Obligation Bonds	820	2015	2045	3.34%	230,000	207,788	437,788
General Obligation Bonds	830	2016	2036	2.08%	45,000	33,919	78,919
General Obligation Bonds	840	2016	2037	0.00%	0	84,690	84,690
Total: Water District					1,512,100	1,331,756	2,843,856
Total: All Funds					46,637,896	19,204,453	65,842,349

* All payments are as scheduled with no subsidies or other offsets applied

Capital Planning

The Capital Process

The Capital Improvement Plan (CIP) serves as a mechanism for defining and prioritizing capital projects that are necessary to maintain the high standard of living that County residents have come to expect. Throughout the CIP, 3 spending priorities emerge: environmental protection, economic development, and operational efficiency.

Capital planning involves the County Executive, members of the County Legislature, heads of various County departments, and a citizen advisory board in a process that determines capital needs, alternatives, and priorities. The development of the Capital Improvement Plan takes place over several months, beginning in March of each year, and includes 5 major phases:

1. In March, department heads begin preparation of project proposals in accordance with executive guidelines.
2. In May, proposals are submitted to the CIP Coordinator at Department of Facilities Management . The proposals are analyzed by CIP Coordinator in conjunction in conjunction with County Executive's Office, various departments, the Syracuse-Onondaga County Planning Agency and the Department of Finance. The Law Department is consulted as needed.
3. By September, a tentative CIP is approved by the County Executive and then presented to the Capital Planning Committee (a committee made up of legislators and representatives from the executive branch of County government)
4. In September, the Tentative Capital Improvement Plan is presented with the County's Annual Operating Budget to the Ways & Means Committee of the County Legislature and then to the full Legislature in October for approval. In the same month the CIP is presented to the County Planning Board (a citizen advisory group).
5. From October to March, research on capital planning and management is conducted, and the prior year's process is revised for improvement.

Coordination and interaction among units of government occurs throughout the process, both formally and informally. The heads of County departments are consulted to discuss questions and recommendations regarding particular projects. Some of the major criteria for evaluating proposals are:

1. Consistency with the stated goals of the County Executive
2. Degree of the overall need for the project
3. Fiscal impact, including the County's capacity to borrow
4. Non-County funding sources
5. Community participation and support

The final product of this process is a 6-year plan to improve those facilities or components of County infrastructure considered necessary to provide or maintain an adequate level of public service.

Approval by the County Legislature is not a commitment to fund every project in the plan, but rather it is an indication of support for the plan as a whole. Projects, which require borrowing, must be presented to the Legislature individually in order to secure authorization to borrow funds.

The 2010 Development Guide

In 1991, the Onondaga County Legislature adopted the 2010 Development Guide to outline county policy with respect to infrastructure, land development, the environment, and fiscal capacity. The Guide was updated with current demographic and economic data, better graphics, and a more concise, understandable format. The updated Guide was approved by the County Legislature on June 1, 1998, and is now the official Onondaga County plan. The County is currently working on an update to the Guide.

New water lines, sewers, and roads have the effect of creating new developable land. The Guide seeks to prevent premature public expenditures, which foster urban sprawl and create unnecessary capital and operating expenses. The Guide stresses the desirability of infill development in areas served by utilities, in order to balance trends toward sprawl with the ability of a static population to pay for infrastructure. Decisions to extend utilities to provide new urban land will be related to economic growth and job creation, as well as the capacity of complementary infrastructure systems to support growth in a particular location.

Project Criteria

As a matter of policy, capital requests are not considered for the Capital Improvement Plan if: 1) the total cost of the project is less than \$250,000; 2) the probable useful life (PPU) is less than 5 years; 3) the request involves the procurement of light or heavy vehicles. These must be funded through the operating budget and are excluded from the Capital Improvement Plan.

A Brief Summary

In addition to projects, which have been authorized by the County Legislature, the 2018-2023 Capital Improvement Plan (CIP) includes 49 County Wide projects and 9 projects in the Sewer Fund. All 58 projects recommended for inclusion in the 6-year plan estimate total spending at \$446,684,000.

Total funds for the recommended County-wide project, for 6 years, are \$255,855,000 of which \$66,630,000 will be pay-as-you-go and \$118,272,000 will be debt. The rest is State and Federal Aid. The Sewer Funds projects are expected to cost \$190,829,000, of which \$34,305,000 will be pay-as-you-go and \$156,524,000 will be debt.

Impact on the Operating Budget

Capital projects can affect the operating budget in several ways. First, when funds are borrowed, annual principal and interest payments to retire the debt must be made. The County's budget to pay scheduled debt payments is presented in the Annual Budget as Debt Service (Debt Service Fund). Additionally, scheduled debt service payments are summarized by department and fund, as well as specified by individual borrowing, in the Debt Service Fund section.

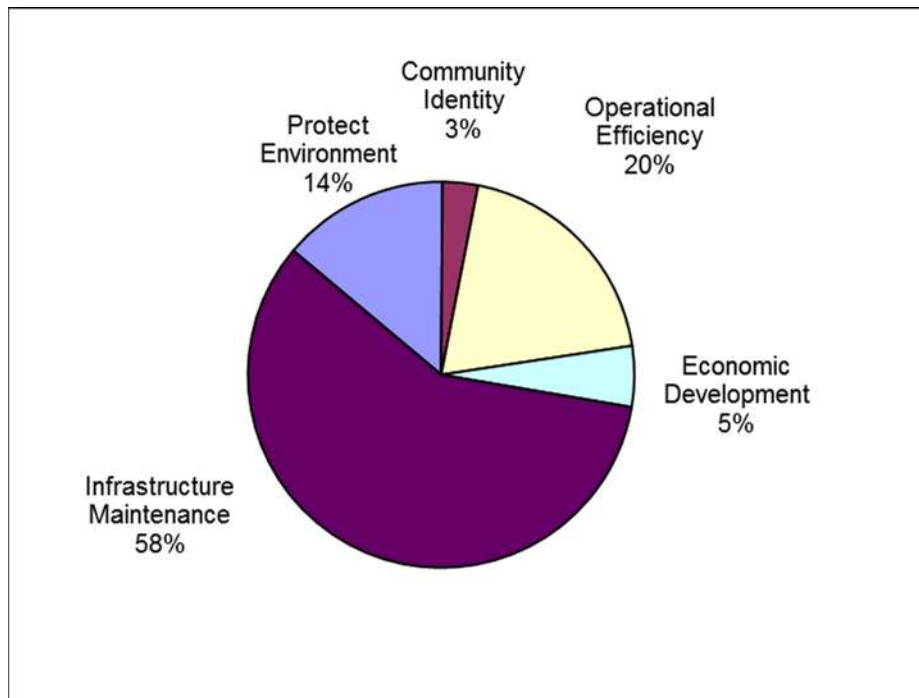
As an alternative to assuming debt, some capital projects are funded on a "pay-as-you-go" basis through departmental operating budgets. Most engineering studies are funded in this manner. Finally, operating costs associated with a project, such as utilities and maintenance, may cause a change in departmental budgets. The impact of these anticipated changes is calculated during the operating budget process as well

as in the review, analysis and decision-making process for each capital project. A very brief summary of those projects anticipated to require funding in 2018 is included in this section. Additionally included are:

1. Estimated 6 year costs for the proposed projects in the CIP
2. The proposed source of funding for those projects
3. Summary of the estimated debt service for:
 - currently scheduled debt
 - debt which has been authorized but not yet issued
 - estimated debt service if all of the proposed projects were to be authorized by the County Legislature

It is important to note that the summary of estimated debt service schedule shows a maximum possible debt obligation through the payoff period.

2018 – 2023 Capital Priorities



CIP Proposed Projects

Six Year Summary of Estimated Expenses (\$ in 000's)

Countywide	Status	Project	2018 - 23 Total
General Fund			
Department of Corrections			
	new	Physical Plant Improvements and Security Upgrades	1,311

		Subtotal	\$ 1,311
Emergency Services			
		Auxiliary Power Systems Replacement	622
		Computer Aided Dispatch (CAD) System Hardware Refresh	784
		Next Generation 911 (NG-911) Telephone System Replacement/Refresh	3,659
		Oblique Aerial Digital Imagery Refresh (2019)	394
		Public Safety Radio Tower Replacement	604
	new	Repave E911 Center Parking Lot	327
		Replacement of Mobile Data Communications Network (MDCN) Infrastructure	6,467
	new	Tower Site Shelter Rehabilitation	1,091
		Trunked Land Mobile Radio Network Backup Prime Site	1,964

		Subtotal	\$ 15,912
Facilities Management			
		Carnegie Library Rehabilitation	4,101
		Civic Center Office Maintenance, Repairs and Improvements	686
		Community Plaza Garage	1,350
		Courthouse - HVAC Renovations	10,000
		Facilities Various Capital Improvements	9,000
	new	LED lighting upgrade in various buildings in downtown campus	535
		Oncenter Rehabilitations	1,500
		Remodeling Social Services Reception	3,000

		Subtotal	\$ 30,172
Children and Family			
	new	Hillbrook Detention Facility Improvements (NEW)	141

		Subtotal	\$ 141
Office of Environment			
		Ash Tree Management	4,500

		Subtotal	\$ 4,500
Parks & Recreation Dept.			
		Beach Development at Onondaga Lake Park	300
		Building an AZA Required Animal Medical Care Center with African Savannah Exhibit	14,100
		Carpenters Brook Fish Hatchery Pond Repair	402
	new	Energy efficiency and reliability upgrade at the zoo	503
		Lights on the Lake Storage Facility	370
		Long Branch Park Improvements	1,950
	new	Loop the Lake Trail	1,500

CIP Proposed Projects

Six Year Summary of Estimated Expenses (\$ in 000's)

Countywide	Status	Project	2018 - 23 Total
		Park Buildings	757
		Park Improvements/Willow Bay	2,740
		Park Roads, Parking Areas, and Trail Paving	3,750
		Park Roofs	300
	new	Playground Improvements	2,000
		Salt Museum Rehabilitation	310

		Subtotal	\$ 28,982
Sheriff Police/Civil			
	new	Sheriff's New Headquarters Facility	900

		Subtotal	\$ 900
		General Fund Total	\$ 81,918
Library			
Onondaga Community Public Library			
	new	Petit Branch Library addition and improvements	885

		Library Total	\$ 885
Community College			
Onondaga Community College			
		Allyn Hall Upgrades and Improvements	2,780
		Elevator Replacement and Upgrades/ Protection of the Campus E-mail and Phone Servers	646
		Infrastructure - Campus Wide	10,488
		Site Improvements	2,718

		Community College Total	\$ 16,632
County Road			
Transportation			
		Bituminous Surface Treatment	12,898
		Bridges	11,512
		Capital Highway Construction	29,867
		Caughdenoy Road / NYS Route 31 Road Improvements	4,120
		Cold Mix Bituminous Paving	21,084
		Guide Rail	2,720
		Rehabilitation of North Area and Camillus Highway Maintenance Facilities	10,000
		Repaving Program (Hot Mix Bituminous)	57,439
		Testing, Drainage and Facilities Repair	4,774
		Traffic Systems Management	1,910

		County Road Total	\$ 156,324
		County Wide Total	\$ 255,759

CIP Proposed Projects

Six Year Summary of Estimated Expenses (\$ in 000's)

Special Funds	Status	Project	2018 - 23 Total
Sewer			
Water Environment Protection			
		Baldwinsville Seneca Knolls WWTP Disinfection and Phase II Asset Renewal Improvements	26,220
		Brewerton WWTP Asset Renewal Improvements	10,122
		Camillus Force Main Replacement	9,500
		Energy Efficiency Improvements/Performance Contracting	26,000
	new	Ley Creek/Liverpool Force Main Rehabilitation/Replacement Project	17,800
	new	Metropolitan (Metro) Wastewater Treatment Plant - Phase II Digester Improvements (New)	16,103
		Oak Orchard WWTP Disinfection and Lagoon Cleaning	11,540
		Oak Orchard WWTP Secondary Clarifier Rehabilitation	6,200
		Wastewater Transportation System Improvements	67,844

		Sewer Total	\$ 191,329
		Special Funds Total	\$ 191,329
		Grand Total	\$ 447,088

FUNDING SOURCES OF PROPOSED PROJECTS

County Wide	2018	2019	2020	2021	2022	2023	6yr Total
General Fund							
Pay as You Go		1,000	1,000	1,000	1,000	1,000	5,000
Authorized Borrowing	869	500					1,369
Borrowing to be Authorized	17,431	18,396	11,066	18,949	6,150	2,941	74,933
State Aid	175	91	350				616
SUB TOTALS	\$18,475	\$19,987	\$12,416	\$19,949	\$7,150	\$3,941	\$81,918
County Road							
Pay as You Go	294	8,730	10,395	12,223	13,990	15,902	61,534
Borrowing to be Authorized	15,943	6,523	2,500	2,503	2,850	2,850	33,169
Federal Aid	19,200	650	2,400				22,250
State Aid	8,941	5,640	6,090	5,640	5,640	5,640	37,591
Other	1,780						1,780
SUB TOTALS	\$46,158	\$21,543	\$21,385	\$20,366	\$22,480	\$24,392	\$156,324
Library							
Borrowing to be Authorized		485					485
State Aid		350					350
Other		50					50
SUB TOTALS		\$885					\$885
Community College							
Borrowing to be Authorized		1,390	1,682	5,244			8,316
State Aid		1,390	1,682	5,244			8,316
SUB TOTALS		\$2,780	\$3,364	\$10,488			\$16,632
County Wide TOTALS	\$64,633	\$45,195	\$37,165	\$50,803	\$29,630	\$28,333	\$255,759
Special Funds							
Sewer							
Pay as You Go	6,735	6,990	5,639	5,214	5,142	5,085	34,805
Authorized Borrowing	9,510	5,995	688	572	155		16,920
Borrowing to be Authorized	10,598	18,248	32,795	36,008	22,105	19,850	139,604
Sewer TOTALS	\$26,843	\$31,233	\$39,122	\$41,794	\$27,402	\$24,935	\$191,329
GRAND TOTAL	\$91,476	\$76,428	\$76,287	\$92,597	\$57,032	\$53,268	\$447,088

CIP Proposed Projects
Summary of 2018 Estimated Expenses

Department/Projects	2018 Cost Only (\$ in 000's)
 <u>Corrections</u>	
Physical Plant Improvements and Security Upgrades	325
Sub Total	325
 <u>Emergency Services</u>	
Public Safety Radio Tower Replacement	\$339
Replacement of Mobile Data Communications Network Infrastructure	\$6,467
Trunked Land Mobile Radio Network Backup Prime Site	\$1,964
Sub Total	\$8,770
 <u>Facilities</u>	
Civic Center Office Maintenance, Repairs and Improvements	\$686
Facilities Various Capital Improvements	\$1,500
OnCenter Rehabilitations	\$500
Remodeling Social Services Reception	\$2,000
Sub Total	\$4,686
 <u>Children and Family</u>	
Hillbrook Detention Facility Improvements	\$141
Sub Total	\$141
 <u>Office of Environment</u>	
Ash Tree Management	\$750
Sub Total	\$750
 <u>Parks</u>	
Carpenters Brook Fish Hatchery Pond Repair	\$100
Park Roads, Parking Areas, and Trail Paving	\$100
Loop the Lake Trail	\$1,500
Building an AZA Required Animal Medical Care Center with African Savannah Exhibit	\$500
Energy efficiency and reliability upgrade at the zoo	\$503
Playground Improvements	\$200
Sub Total	\$2,903

Sheriff Police/Civil

Sheriff's New Headquarters Facility	\$900
Sub Total	\$900

DOT

Bituminous Surface Treatment	\$1,250
Bridges	\$4,417
Capital Highway Construction	\$21,114
Cold Mix Bituminous Paving	\$2,050
Guide Rail	\$250
Rehabilitation of North Area and Camillus Highway Mtce Facil.	\$10,000
Repaving Program (Hot Mix Bituminous)	\$6,173
Testing, Drainage and Facilities Repair	\$654
Traffic Systems Management	\$250
Sub Total	\$46,158

COUNTY WIDE FUNDS TOTAL **\$64,633**

WEP

Baldwinsville Seneca Knolls WWTP Disinfection and Phase II Asset Renewal Improv.	\$3,021
Camillus Force Main Replacement	\$3,500
Energy Efficiency Improvements/Performance Contracting	\$4,500
Ley Creek/Liverpool Force Main Rehabilitation/Replacement Project	\$500
Oak Orchard Disinfection and Lagoon Cleaning	\$7,962
Oak Orchard WWTP Secondary Clarifier Rehabilitation	\$625
Wastewater Transportation System Improvements	\$6,735
Sub Total	\$26,843

ALL FUNDS TOTAL **\$91,476**

Proposed Capital Improvement Projects For 2018

The following is a listing with a very brief description of the capital projects that are anticipated to require funding in 2018. More detail can be found in the County's 2018-2023 Capital Improvement Plan.

DEPARTMENT OF CORRECTIONS

Project: Physical Plant Improvements and Security Upgrades

Level of Development: Intermediate

Project Description: This project provides for improvement to original structures, building equipment and enhances security around the facility. Building repairs include repair/replacement of kitchen flooring, housing unit entries, programs corridor ceiling replacement, air conditioning in Hsg Units 1, 2 & 3, and the replacement of inmate housing unit entry and cell doors. The kitchen dish washer and the food service delivery carts need to be replaced and a large laundry washing machine needs to be purchased. Security enhancement includes the installation of lighting on facility roadways and an alternative entry and egress from the facility. Grounds and exterior improvements include resurfacing of roadways and parking lots of the facility. The completion of these projects will maintain the safety and security of the facility and the compliance of health and safety standards.

EMERGENCY SERVICES

Project: Public Safety Radio Tower Replacement

Level of Development: Intermediate

Project Description: Replace two critical public safety radio communications towers that will have reached the end of their useful life cycle and do not meet current standards for critical public safety standards.

Project: Replacement of Mobile Data Communications Network (MDCN) Infrastructure

Level of Development: Preliminary

Project Description: This project will replace the 800 MHz mobile data communications infrastructure, including fixed base station equipment at radio tower sites and mobile data radio modems in public safety vehicles. The end of life for the current Mobile Data Communications Network (MCDN) is December of 2017.

Project: Trunked Land Mobile Radio Network Backup Prime Site

Level of Development: Advanced

Project Description: While there is redundancy in the OCICS digital trunked land mobile radio (TLMR) system, the system does have a single point of failure. A catastrophic failure of the OCICS TLMR would leave critical first responders without radio communications for a period of time. This project will provide a geographically redundant backup prime site solution that will serve to provide basic emergency communications support in the event of a complete TLMR system failure.

FACILITIES MANAGEMENT

Project: Civic Center Office Maintenance, Repairs and Improvements

Level of Development: Advanced

Project Description: This ongoing project consists of masonry repairs to the lower brick veneer, concrete stem wall, and columns located in front of the Civic Center, in addition to interior office renovations to multiple floors located in the Civic Center office tower. The project will include new office environments, painting and lighting, carpeting, and HVAC modifications. It will also provide ADA enhancements, sound masking systems and incorporate sustainable practices, such as energy reduction and ergonomic planning.

Project: Facilities Various Capital Improvements

Level of Development: Advanced

Project Description: This project will generate improvements in structural integrity, mechanical systems, energy efficiency systems, life/safety issues, office environments, building exteriors, infrastructure, ADA improvements and security and fire alarm systems of buildings and grounds in various facilities, as well as providing for the preservation of County assets.

Project: OnCenter Rehabilitations

Level of Development: Advanced

Project Description: We propose to replace, rehabilitate and restore various fatigued, out of date and failing systems and components within the Oncenter Building group. This will include, but will not be limited to, theater enhancements of acoustical treatments, ADA upgrades and appurtenances, building systems modifications, as well as lighting and insulation replacements.

Project: Remodeling Social Services Reception

Level of Development: Advanced

Project Description: This project will provide for efficiency improvements in the Department of Social Services by renovating the Division of Temporary Assistance Intake with attention to congestion reduction, staff and public safety, as well as security - to allow for streamlined and effective delivery of services.

HILLBROOK

Project: Hillbrook Detention Facility Improvements

Level of Development: Intermediate

Project Description: Improvements and replacements of various elements of security and safety throughout the existing facility

OFFICE OF ENVIRONMENT

Project: Ash Tree Management

Level of Development: Intermediate

Project Description: Emerald Ash Borer (EAB), an invasive species of beetle that kills ash trees, arrived in the U.S. around 2002 and is spreading across the Country. The beetle is already infesting ash trees in Onondaga County. One in nine trees in Onondaga County is an ash tree. Onondaga County has developed and is implementing an Emerald Ash Borer (EAB) management strategy in order to minimize the hazard risk to the community, the impact of EAB on County operations and to plan for and minimize

EAB costs (tree removal/inoculation, manpower and equipment, disposal and tree replacement). All County-owned ash trees with potential targets in the drop zone (people or physical assets) will need to be removed or inoculated to protect the public, protect assets and reduce liability.

PARKS & RECREATION

Project: Carpenters Brook Fish Hatchery Pond Repair

Level of Development: Advanced

Project Description: This project will provide funding to patch & resurface the current 18 circular and 9 raceway ponds at Carpenters Brook Fish Hatchery. Problem that Exists: The original concrete ponds were constructed in 1934. These ponds have been exposed to over 80 years of harsh environments. The ponds are leaking at a rapid pace making it more difficult to successfully raise fish.

Project: Park Roads, Parking Areas, and Trail Paving

Level of Development: Advanced

Project Description: This project is the ongoing maintaining, resurfacing or new construction of park roads, trails and parking

Project: Building an AZA Required Animal Medical Care Center with African Savannah Exhibit

Level of Development: Preliminary

Project Description: This project seeks to design and construct a medical care center for animals which would include quarantine areas and medical facilities with the capacity for much larger zoo animals. This project also includes a large hoof-stock savannah exhibit that would be located directly adjacent to the medical facility

Project: Energy efficiency and reliability upgrade at the zoo

Level of Development: Advanced

Project Description: Project entails installing a Combined Heat and Power unit that will provide electricity and heat more efficiently and less costly than from utility sources. In addition the unit will provide a source of emergency electrical power in the event of a utility power outage. This emergency power is necessary to maintain the habitat for exotic and expensive species housed at the zoo. NYSEDA funding is currently available to offset approximately 35% of the project cost. The estimated simple payback for the project is less than 12 years. The savings over the 30 year useful life of the project are estimated to be over \$350,000

Project: Playground Improvements

Level of Development: Advanced

Project Description: The Parks system is home to several major playgrounds that represent a multi-million dollar investment. Many of these playgrounds have expensive composite surfaces that deteriorate over time. This project seeks funding to maintain, repair, upgrade and create playgrounds at new sites.

Project: Loop the Lake Trail

Level of Development: Preliminary

Project Description: Construction of a mile of multi-use trails on the southeast shore of Onondaga Lake known as Murphy's Island. This is a trail segment which will eventually be part of the completed Loop the Lake trail system.

SHERIF POLICE/CIVIL

Project: Sheriff's New Headquarters Facility

Level of Development: Preliminary

Project Description: The goal of this project is to conduct a study to consolidate all of the Police and Civil operations into a central facility. The new facility will consolidate several existing facilities including Headquarters (South State Street), the Property and Evidence Facility/Impound Lot (Joy Road), the Special Operations Facility (Cessna Road), the Patrol Substations, and all administrative functions.

TRANSPORTATION

Project: Bituminous Surface Treatment

Level of Development: Ongoing

Project Description: This project provides for the treatment of County highways with a bituminous surface treatment to prolong the life of the wearing surface.

Project: Bridges

Level of Development: Ongoing

Project Description: This program addresses the maintenance and repair of bridges within the County highway system.

Project: Capital Highway Construction

Level of Development: Ongoing

Project Description: This project involves construction of major highway improvements.

Project: Cold Mix Bituminous Paving

Level of Development: Ongoing

Project Description: This project entails the repaving of the 375 miles of secondary County roads on a rotating basis.

Project: Guide Rail

Level of Development: Ongoing

Project Description: This program involves the installation of guide rail at various locations on County highways.

Project: Rehabilitation of North Area and Camillus Highway Maintenance Facilities

Level of Development: Intermediate

Project Description: This project addresses the need for substantial renovations and repairs to DOT's Camillus and Dewitt highway maintenance facilities.

Project: Repaving Program (Hot Mix Bituminous)

Level of Development: Ongoing

Project Description: This program provides for the repaving of major, high volume County roads to maintain our investment in the transportation system.

Project: Testing, Drainage and Facilities Repair
Level of Development: Ongoing
Project Description: This project provides support programs for the Department of Transportation's Annual Work Plan.

Project:Traffic Systems Management
Level of Development: Ongoing
Project Description: This program addresses Traffic System improvements on County highways.

WATER ENVIRONMENT PROTECTION

Project: Baldwinsville Seneca Knolls WWTP Disinfection and Phase II Asset Renewal Improv.
Level of Development: Preliminary
Project Description: The Baldwinsville-Seneca Knolls Wastewater Treatment Plant was issued a renewed SPDES Discharge Permit in June 2014 by the New York State Department of Environmental Conservation (NYSDEC) which included modifications to the effluent total residual chlorine (TRC) limit from 2.0 mg/L to 0.08 mg/L. The new TRC permit limits will become effective beginning May 15, 2018. The WWTP currently has no means to dechlorinate the effluent to meet this limit. Therefore, the County initiated this project to design and construct upgrades to the disinfection system which will enable the new TRC limit to be met. Additionally, the plant is over thirty-five years old. Various small and discrete improvements and repairs have been done to the facility as a means of operational enhancements and infrastructure maintenance. However, there is a contemporary need to implement a robust infrastructure renewal project for many of the treatment plant's assets so as to ensure continued satisfactory operation and extend its service life. This project is for Phase II asset renewal improvements.

Project: Camillus Force Main Replacement
Level of Development: Preliminary
Project Description: Replacement of a 24 inch diameter 7 mile long wastewater pipeline.

Project: Energy Efficiency Improvements/Performance Contracting
Level of Development: Intermediate
Project Description: This project entails working with an energy service company (ESCO, a commercial business providing a broad range of comprehensive energy solutions including designs and implementation of energy savings projects, energy conservation, power generation and energy supply, and risk management) to design and implement various process and infrastructure improvements for energy savings. The project serves to support of the County's effort to pursue sustainability, effect the goals of the County's Climate Action Plan, reduce energy usage, and correspondingly reduce annual operating costs.

Project: Ley Creek/Liverpool Force Main Rehabilitation/Replacement Project
Level of Development: Preliminary
Project Description: Rehabilitation/Replacement of the Ley Creek 42-inch wastewater force main and the Liverpool 18-inch wastewater force main. Both force mains have exceeded the expected service life and have resulted in costly emergency repairs and additional regulatory scrutiny.

Project: Oak Orchard Disinfection and Lagoon Cleaning (NEW)
Level of Development: Intermediate
Project Description: The Oak Orchard Wastewater Treatment Plant was issued a New York State Pollutant Discharge Elimination System (SPDES) permit in June 2014 which contained more restrictive

disinfection limits in terms of allowable chlorine residual. The existing infrastructure is inadequate to meet those new limits. Consequently, new and additional process tankage and chemical treatment systems will be installed to meet those new limits. In addition, cleaning and improvements are necessary for the onsite lagoons so as to ensure SPDES compliance and continued satisfactory plant operations.

Project: Oak Orchard WWTP Secondary Clarifier Rehabilitation

Level of Development: Advanced

Project Description: The Oak Orchard Wastewater Treatment Plant (WWTP) has been in operation since 1980. The secondary clarifiers, critical to the successful operation of the plant, are original to the plant and have been identified for replacement

Project: Wastewater Transportation System Improvements

Level of Development: Ongoing

Project Description: This project consists of three primary or categorical elements: pump station improvements, trunk sewer improvements, and facility maintenance improvements (i.e., paving, roofing, and larger-scale maintenance activities).