

Debt Schedules

Section 4

Town of Needham
Capital Improvement Plan
January 2015

**Debt Service to Revenue
Issued, Authorized and Proposed for FY2016
FY2016 - FY2020**

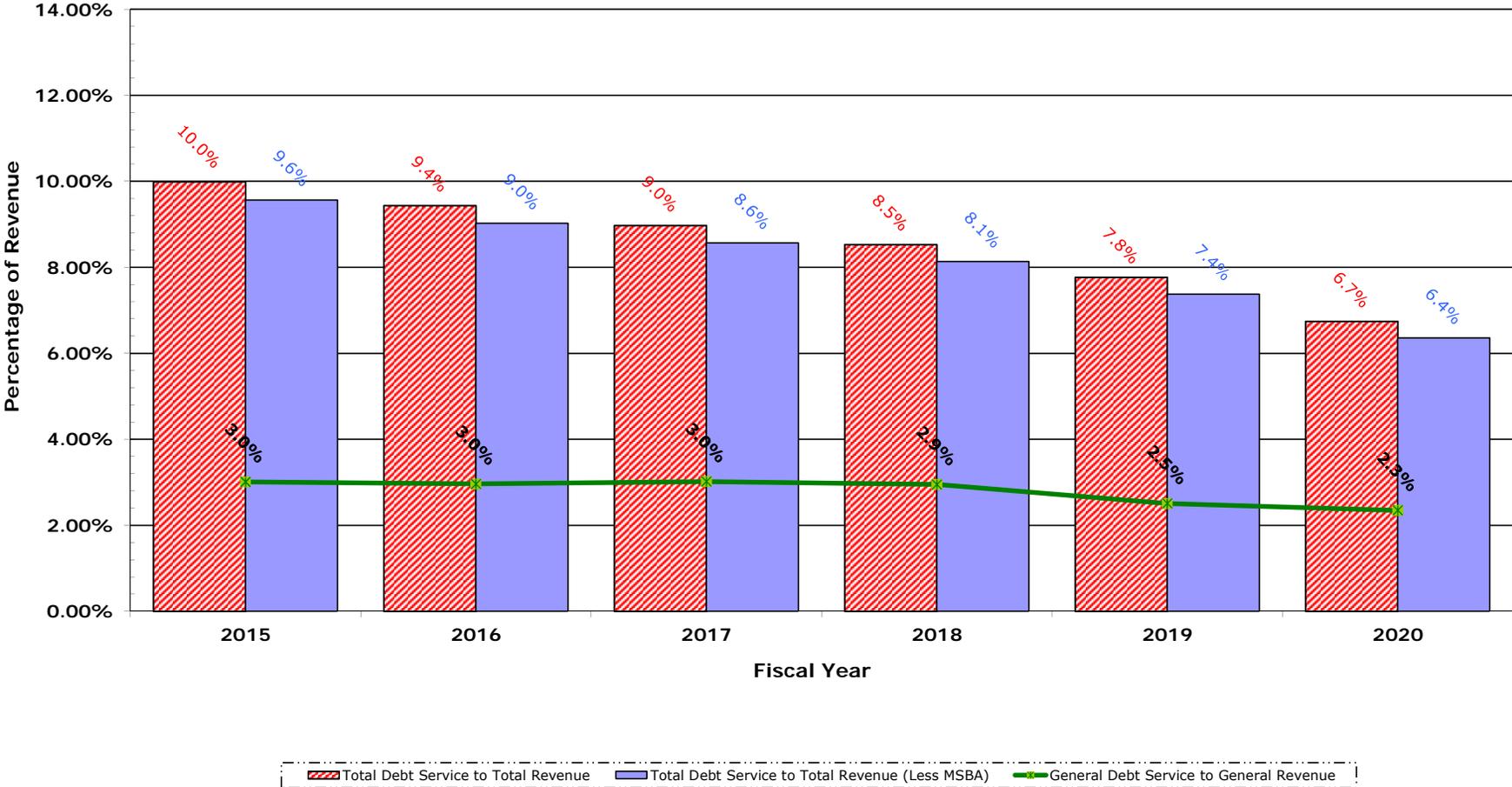
Description	2015	2016	2017	2018	2019	2020
Revenue						
General Fund Within the Levy *	\$124,854,599	\$130,082,176	\$133,984,641	\$138,004,181	\$142,144,306	\$146,408,635
General Fund Excluded from Levy **	\$6,659,026	\$6,212,881	\$6,035,371	\$5,853,192	\$5,634,985	\$5,386,073
CPA Revenue	\$2,537,099	\$2,439,113	\$2,526,489	\$2,621,233	\$2,719,529	\$2,821,511
RTS Revenue	\$998,794	\$1,011,279	\$1,023,920	\$1,036,719	\$1,049,678	\$1,062,799
Sewer Revenue	\$7,536,115	\$7,630,316	\$7,725,695	\$7,822,267	\$7,920,045	\$8,019,045
Water Revenue	\$5,441,990	\$5,510,015	\$5,578,890	\$5,648,626	\$5,719,234	\$5,790,724
Total Revenue	\$148,027,623	\$152,885,779	\$156,875,007	\$160,986,217	\$165,187,776	\$169,488,788
Debt Service						
General Debt (Table I)	\$3,757,947	\$3,851,834	\$4,043,252	\$4,070,282	\$3,565,211	\$3,436,343
CPA Debt (Table II)	\$475,763	\$464,438	\$456,313	\$449,163	\$441,494	\$430,525
RTS Debt (Table III)	\$150,000	\$150,000	\$148,375	\$114,000	\$74,000	\$30,100
Sewer Debt (Table IV)	\$1,500,000	\$1,500,000	\$1,148,820	\$1,086,918	\$1,055,010	\$646,104
Water Debt (Table V)	\$1,550,000	\$1,550,000	\$1,546,057	\$1,462,243	\$1,359,918	\$802,350
Gross Excluded Debt (Table VI)	\$7,354,174	\$6,908,029	\$6,730,519	\$6,548,340	\$6,330,133	\$6,081,221
Total Debt Service	\$14,787,884	\$14,424,300	\$14,073,335	\$13,730,945	\$12,825,765	\$11,426,644
Total Debt Service to Total Revenue	10.0%	9.4%	9.0%	8.5%	7.8%	6.7%
Total Debt Service to Total Revenue (less M	9.6%	9.0%	8.6%	8.1%	7.4%	6.4%
General Debt Service to General Revenue	3.0%	3.0%	3.0%	2.9%	2.5%	2.3%

* FY2016 - FY2020 revenue is based on the Preliminary Facility Financing Summary December 2014

** Excludes Massachusetts School Building Assistance (MSBA) Revenue.

*** Uses net general fund debt excluded figure (or actual debt to be paid by Town after MSBA payment) see table VI.

Debt Service as a Percentage of Revenue



Town of Needham
Capital Improvement Plan
January 2015

Table I
General Fund Capital Projects
Proposed Funding by Debt
FY2016

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2015	2016	2017	2018	2019	2020
General Fund Within the Levy									
Public Works Infrastructure Program	\$1,000,000	5	6.00%			\$260,000	\$248,000	\$236,000	\$224,000
Central Avenue/Elliot Street Bridge	\$4,000,000	20	6.00%			\$60,000	\$440,000	\$428,000	\$416,000
High School Classroom Expansion	\$4,000,000	10	6.00%			\$240,000	\$640,000	\$616,000	\$592,000
Projected New General Fund Debt Service#	\$9,000,000					\$560,000	\$1,328,000	\$1,280,000	\$1,232,000
General Fund Debt									
Authorized & Issued (refer to schedule)				\$3,421,564	\$2,924,446	\$2,643,827	\$1,939,032	\$1,533,136	\$1,497,618
Authorized Not Yet Issued & Short Term Costs				\$336,383	\$927,388	\$839,425	\$803,250	\$752,075	\$706,725
Proposed						\$560,000	\$1,328,000	\$1,280,000	\$1,232,000
Total General Fund Debt Service Within the Levy				\$3,757,947	\$3,851,834	\$4,043,252	\$4,070,282	\$3,565,211	\$3,436,343
General Fund Within the Levy Revenue *				\$124,854,599	\$130,082,176	\$133,984,641	\$138,004,181	\$142,144,306	\$146,408,635
Debt Service % of General Fund Revenue				3.0%	3.0%	3.0%	2.9%	2.5%	2.3%

Town of Needham
 Capital Improvement Plan
 January 2015

Table II
CPA Capital Projects
Proposed Funding by Debt
FY2016

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule						
				2015	2016	2017	2018	2019	2020	
CPA Fund Debt										
No New Authorizations Proposed for FY2016										
Projected New CPA Fund Debt Service										
CPA Fund Debt										
Authorized & Issued				\$473,263	\$464,438	\$456,313	\$449,163	\$441,494	\$430,525	
Authorized Not Yet Issued & Short Term Costs Proposed				\$2,501						
Total CPA Fund Debt Service				\$475,763	\$464,438	\$456,313	\$449,163	\$441,494	\$430,525	

Town of Needham
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Table III
Recycling & Solid Waste Disposal Capital Projects
Proposed Funding by Debt
FY2016

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2015	2016	2017	2018	2019	2020
Recycling & Solid Waste Disposal Enterprise (RTS)									
No New Authorizations Proposed for FY2016									
Projected New RTS Debt Service									
RTS Enterprise Fund Debt									
Authorized & Issued (refer to schedule)				\$107,102	\$105,000	\$97,775	\$25,500		
Authorized Not Yet Issued & Short Term Costs Proposed				\$42,898	\$45,000	\$50,600	\$88,500	\$74,000	\$30,100
Total RTS Debt Service				\$150,000	\$150,000	\$148,375	\$114,000	\$74,000	\$30,100

Town of Needham
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 January 2015

Table IV
Sewer Fund Capital Projects
Proposed Funding by Debt
FY2016

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule						
				2015	2016	2017	2018	2019	2020	
Sewer Enterprise										
No New Authorizations Proposed for FY2016										
Projected New Sewer Debt Service										
Sewer Enterprise Fund Debt										
Authorized & Issued (refer to schedule)				\$1,279,724	\$1,083,348	\$1,043,820	\$986,918	\$960,010	\$556,104	
Authorized Not Yet Issued & Short Term Costs Proposed				\$220,276	\$416,652	\$105,000	\$100,000	\$95,000	\$90,000	
Total Sewer Debt Service				\$1,500,000	\$1,500,000	\$1,148,820	\$1,086,918	\$1,055,010	\$646,104	

Town of Needham
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Table V
Water Fund Capital Projects
Proposed Funding by Debt
FY2016

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2015	2016	2017	2018	2019	2020
Water Enterprise									
Water System Rehabilitation	\$635,000	10	6.00%			\$103,100	\$99,200	\$95,300	\$91,400
Projected New Water Debt Service	\$635,000					\$103,100	\$99,200	\$95,300	\$91,400
Water Enterprise Fund Debt									
Authorized & Issued (refer to schedule)				\$1,070,430	\$920,671	\$905,551	\$896,037	\$890,012	\$349,244
Authorized Not Yet Issued & Short Term Costs Proposed				\$479,570	\$629,329	\$537,406	\$467,006	\$374,606	\$361,706
						\$103,100	\$99,200	\$95,300	\$91,400
Total Water Debt Service				\$1,550,000	\$1,550,000	\$1,546,057	\$1,462,243	\$1,359,918	\$802,350

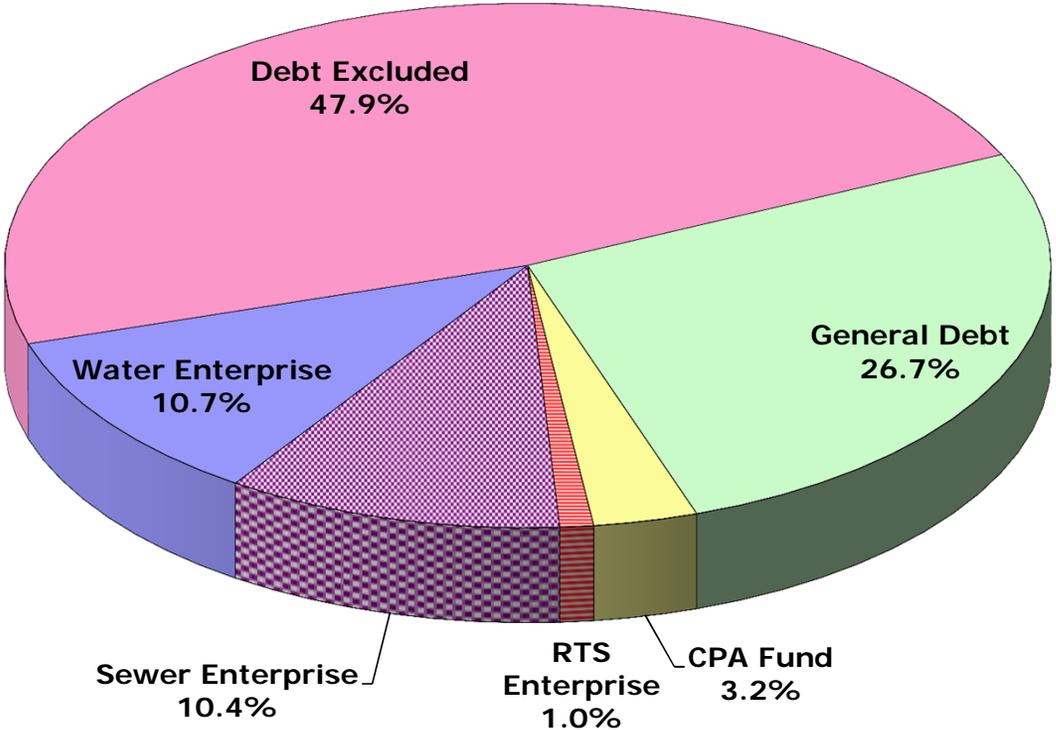
Town of Needham
 Capital Improvement Plan
 January 2015

Table VI
Capital Projects
Proposed Funding by Debt Exclusion
FY2016

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2015	2016	2017	2018	2019	2020
General Fund Debt Excluded									
No New Authorizations Proposed for FY2016									
Projected New General Fund Debt Service Excluded									
General Fund Debt Excluded									
Authorized & Issued (refer to schedule)				\$7,212,674	\$6,908,029	\$6,730,519	\$6,548,340	\$6,330,133	\$6,081,221
Authorized Not Yet Issued & Short Term Costs Proposed				\$141,500					
Total General Fund Excluded Debt Service				\$7,354,174	\$6,908,029	\$6,730,519	\$6,548,340	\$6,330,133	\$6,081,221
Projected SBA Payments/Other Adjustments				\$695,148	\$695,148	\$695,148	\$695,148	\$695,148	\$695,148
Net General Fund Excluded Debt Service *				\$6,659,026	\$6,212,881	\$6,035,371	\$5,853,192	\$5,634,985	\$5,386,073

* Before other offsets and credits

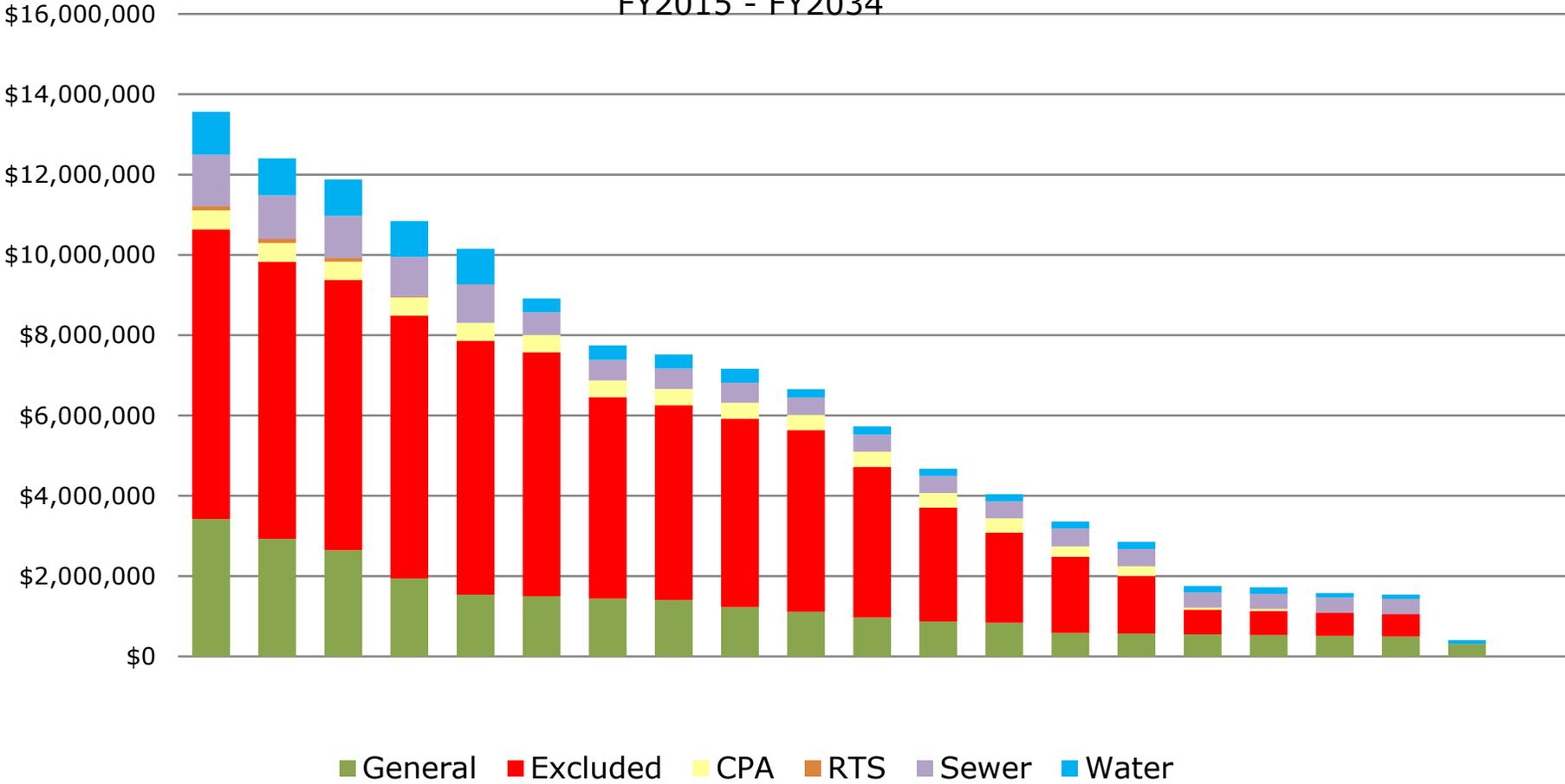
**FY2016
Debt Service
Share of Total**



- General Debt
- CPA Fund
- ▨ RTS Enterprise
- ▨ Sewer Enterprise
- ▨ Water Enterprise
- ▨ Debt Excluded

**Projected Gross Debt Service
\$14,424,301**

Current Total Annual Long Term Debt Service By Category FY2015 - FY2034



**Town of Needham
 Current Long Term Debt Service Obligations
 Inclusive of the June 2014 Bond Issue**

Fiscal Year	General	Excluded	CPA	RTS	Sewer	Water	Total
2015	\$3,421,563.57	\$7,212,673.76	\$473,262.50	\$107,101.67	\$1,279,723.93	\$1,070,429.51	\$13,564,754.94
2016	\$2,924,446.26	\$6,908,028.76	\$464,437.50	\$105,000.00	\$1,083,348.08	\$920,671.30	\$12,405,931.90
2017	\$2,643,827.31	\$6,730,518.76	\$456,312.50	\$97,775.00	\$1,043,819.91	\$905,550.61	\$11,877,804.09
2018	\$1,939,031.92	\$6,548,340.01	\$449,162.50	\$25,500.00	\$986,917.99	\$896,036.59	\$10,844,989.01
2019	\$1,533,136.17	\$6,330,132.51	\$441,493.75		\$960,009.84	\$890,012.14	\$10,154,784.41
2020	\$1,497,618.22	\$6,081,221.26	\$430,525.00		\$556,104.46	\$349,243.68	\$8,914,712.62
2021	\$1,438,827.52	\$5,018,153.76	\$416,675.00		\$511,112.57	\$361,537.35	\$7,746,306.20
2022	\$1,403,688.77	\$4,852,011.26	\$405,040.63		\$506,797.93	\$353,318.56	\$7,520,857.15
2023	\$1,226,643.77	\$4,694,631.26	\$395,256.26		\$502,415.95	\$344,997.42	\$7,163,944.66
2024	\$1,111,530.02	\$4,521,538.76	\$384,906.26		\$424,559.50	\$214,263.08	\$6,656,797.62
2025	\$967,627.52	\$3,754,678.76	\$374,762.51		\$423,230.66	\$210,645.41	\$5,730,944.86
2026	\$867,452.52	\$2,838,185.00	\$364,681.26		\$421,802.39	\$182,452.26	\$4,674,573.43
2027	\$838,834.39	\$2,245,600.00	\$354,306.26		\$420,276.63	\$179,682.26	\$4,038,699.54
2028	\$584,126.26	\$1,896,217.50	\$259,996.88		\$443,252.24	\$176,760.00	\$3,360,352.88
2029	\$568,365.64	\$1,434,918.75	\$241,637.50		\$430,929.00	\$178,738.06	\$2,854,588.95
2030	\$547,161.27	\$615,257.50	\$51,812.50		\$374,907.65	\$165,813.04	\$1,754,951.96

Town of Needham
Current Long Term Debt Service Obligations
Inclusive of the June 2014 Bond Issue

Fiscal Year	General	Excluded	CPA	RTS	Sewer	Water	Total
2031	\$530,088.76	\$600,698.75	\$50,625.00		\$374,987.84	\$162,237.51	\$1,718,637.86
2032	\$512,327.50	\$579,397.50			\$375,070.14	\$110,325.00	\$1,577,120.14
2033	\$493,930.00	\$561,845.00			\$375,154.05	\$106,825.00	\$1,537,754.05
2034	\$306,750.00					\$98,325.00	\$405,075.00
2035							

Town of Needham
Capital Improvement Plan
January 2015

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE					DEBT SERVICE						
Project	TM Vote	Amount Issued	Final Maturity	Average Rate	2015	2016	2017	2018	2019	2020	After 2020
DPW Complex - Garage Bays	13-May-13	\$800,000	15-May-24	2.09%	\$95,625.56	\$94,800.00	\$93,200.00	\$91,600.00	\$90,000.00	\$88,400.00	\$337,600.00
Fire Engine	11-May-11	\$400,000	15-Jul-16	2.72%	\$107,000.00	\$104,500.00	\$101,500.00				
Kendrick Street Bridge Repair	12-May-10	\$750,000	01-Aug-21	2.21%	\$87,187.50	\$85,687.50	\$84,187.50	\$82,687.50	\$81,187.50	\$79,593.75	\$153,750.00
Parking Lot Improvement (Marked Lee)	05-May-08	\$100,000	01-Aug-16	2.00%	\$21,000.00	\$20,600.00	\$20,200.00				
Pollard School Boiler Replacement	13-May-13	\$95,000	15-May-18	2.00%	\$26,810.28	\$26,400.00	\$25,900.00	\$20,400.00			
Pollard School Boiler Replacement	13-May-13	\$565,000	15-Jul-21	3.22%	\$94,097.78	\$84,350.00	\$82,250.00	\$80,150.00	\$78,050.00	\$75,950.00	\$144,550.00
Pollard School Parking and Access	14-Mar-11	\$702,200	01-Oct-14	2.68%	\$177,625.00						
Pollard School Roof Replacement	10-Nov-10	\$1,000,000	01-Oct-15	2.80%	\$209,000.00	\$203,000.00					
Pollard School Roof Replacement	10-Nov-10	\$725,000	15-Jul-22	3.67%	\$96,500.00	\$94,625.00	\$92,375.00	\$90,125.00	\$82,600.00	\$79,800.00	\$222,600.00
Property Acquisition - 37-39 Lincoln Street	16-May-12	\$25,000	15-May-18	2.00%	\$10,476.39	\$5,300.00	\$5,200.00	\$5,100.00			
Property Acquisition - 37-39 Lincoln Street	16-May-12	\$605,000	01-Nov-32	3.39%	\$48,600.00	\$47,700.00	\$46,800.00	\$45,750.00	\$44,550.00	\$43,350.00	\$477,300.00
Property Acquisition - 51 Lincoln Street	13-Nov-12	\$150,000	15-May-18	2.00%	\$42,858.33	\$42,200.00	\$36,400.00	\$35,700.00			
Property Acquisition - 51 Lincoln Street	13-Nov-12	\$950,000	01-Nov-32	3.39%	\$79,325.00	\$77,825.00	\$76,325.00	\$74,575.00	\$72,575.00	\$70,575.00	\$731,625.02
Property Acquisition - 59 Lincoln Street & 89 School Street	14-May-12	\$117,500	15-May-18	2.00%	\$34,739.03	\$31,700.00	\$31,100.00	\$25,500.00			
Property Acquisition - 59 Lincoln Street & 89 School Street	14-May-12	\$1,005,000	01-Nov-32	3.39%	\$81,000.00	\$79,500.00	\$78,000.00	\$76,250.00	\$74,250.00	\$72,250.00	\$795,500.00
Property Acquisition 59 Lincoln Street & 89 School Street	14-May-12	\$52,500	15-Jul-32	2.93%	\$4,465.00	\$4,390.00	\$4,300.00	\$4,210.00	\$4,105.00	\$3,985.00	\$35,822.50
Public Safety Building Roof	19-May-08	\$350,000	01-Dec-14	2.20%	\$70,700.00						

Town of Needham
Capital Improvement Plan
January 2015

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE					DEBT SERVICE						
Project	TM Vote	Amount Issued	Final Maturity	Average Rate	2015	2016	2017	2018	2019	2020	After 2020
Public Services Administration Bldg.	27-Oct-08	\$20,000	01-Nov-16	2.95%	\$5,375.00	\$5,225.00	\$5,075.00				
Public Services Administration Bldg.	27-Oct-08	\$100,000	15-Jul-22	3.69%	\$13,000.00	\$12,750.00	\$12,450.00	\$12,150.00	\$11,800.00	\$11,400.00	\$31,800.00
Public Services Administration Building (Series I)	27-Oct-08	\$4,000,000	01-Aug-26	3.16%	\$329,925.00	\$325,125.00	\$319,125.00	\$312,525.00	\$306,225.00	\$299,325.00	\$1,799,962.50
Public Services Administration Building (Series II)	27-Oct-08	\$1,000,000	01-Dec-24	3.07%	\$81,937.50	\$85,606.25	\$84,062.50	\$82,356.25	\$80,487.50	\$78,537.50	\$407,343.75
Public Works Infrastructure Program	07-May-12	\$210,000	15-May-18	2.00%	\$59,001.67	\$58,100.00	\$52,000.00	\$51,000.00			
Public Works Infrastructure Program	13-May-13	\$100,000	15-May-18	2.00%	\$26,905.56	\$26,500.00	\$26,000.00	\$25,500.00			
Public Works Infrastructure Program	03-May-10	\$500,000	01-Oct-14	2.68%	\$126,875.00						
Public Works Infrastructure Program	02-May-11	\$350,000	15-Jul-16	3.13%	\$130,697.50	\$120,175.00	\$116,725.00				
Public Works Infrastructure Program	03-May-10	\$120,000	15-Jul-16	3.13%	\$43,677.78	\$41,800.00	\$40,600.00				
Public Works Infrastructure Program	02-May-11	\$600,000	15-Jul-17	2.82%	\$132,000.00	\$129,000.00	\$125,400.00	\$121,800.00			
Public Works Infrastructure Program	03-May-10	\$306,500	15-Jul-17	2.72%	\$80,250.00	\$73,450.00	\$71,350.00	\$10,150.00			
Public Works Infrastructure Program	02-May-11	\$150,000	15-May-18	2.00%	\$42,858.33	\$42,200.00	\$36,400.00	\$35,700.00			
Public Works Infrastructure Program	03-May-10	\$129,000	15-May-18	2.00%	\$41,458.17	\$31,800.00	\$31,200.00	\$30,600.00			
Road Improvement Program	09-May-05	\$468,400	15-Feb-15	3.48%	\$10,380.00						
Senior Center (Series I)	07-Nov-11	\$1,000,000	01-Nov-32	3.38%	\$85,481.26	\$83,831.26	\$77,256.26	\$75,506.26	\$73,506.26	\$71,506.26	\$767,278.23
Senior Center (Series II)	07-Nov-11	\$5,050,000	15-Jul-33	3.54%	\$443,451.94	\$413,875.00	\$406,225.00	\$398,575.00	\$390,925.00	\$383,275.00	\$4,416,400.00
Senior Center (Series III)	07-Nov-11	\$1,050,500	15-May-34	2.83%	\$80,758.14	\$80,400.00	\$79,300.00	\$78,200.00	\$77,100.00	\$76,000.00	\$882,650.00

Town of Needham
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January 2015

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE					DEBT SERVICE						
Project	TM Vote	Amount Issued	Final Maturity	Average Rate	2015	2016	2017	2018	2019	2020	After 2020
Stormwater - MWPAT 98-92	06-May-98	\$364,979	01-Aug-19	(see note)	\$35,649.55	\$34,152.24	\$32,701.87	\$31,149.37	\$29,874.01	\$28,566.79	
Street & Traffic Light Improvements	19-May-08	\$25,000	01-Nov-17	3.34%	\$5,575.00	\$5,425.00	\$5,275.00	\$5,100.00			
Title V Loans	01-May-97	\$85,894	01-Aug-19	(see note)	\$6,265.04	\$5,922.75	\$5,662.92	\$5,391.28	\$5,119.64	\$4,853.91	
Town Hall (Series I)	18-May-09	\$2,500,000	01-Apr-17	2.24%	\$320,250.00	\$314,250.00	\$307,500.00				
Town Hall (Series III)	18-May-09	\$385,000	01-Aug-26	2.63%	\$32,781.26	\$32,281.26	\$31,781.26	\$31,281.26	\$30,781.26	\$30,250.01	\$193,171.94
TOTAL GENERAL FUND DEBT SERVICE WITHIN THE LEVY					\$3,421,563.57	\$2,924,446.26	\$2,643,827.31	\$1,939,031.92	\$1,533,136.17	\$1,497,618.22	\$11,397,353.94
Town Hall (Series II)	18-May-09	\$3,500,000	01-Oct-28	3.36%	\$286,737.50	\$280,887.50	\$276,012.50	\$272,112.50	\$267,968.75	\$260,900.00	\$2,018,987.56
Town Hall (Series III)	18-May-09	\$1,225,000	01-Aug-26	2.63%	\$104,900.00	\$103,300.00	\$101,700.00	\$100,100.00	\$98,500.00	\$96,800.00	\$618,150.00
Town Hall (Series IV)	18-May-09	\$970,000	15-Jul-30	2.80%	\$81,625.00	\$80,250.00	\$78,600.00	\$76,950.00	\$75,025.00	\$72,825.00	\$662,562.50
TOTAL COMMUNITY PRESERVATION FUND DEBT SERVICE					\$473,262.50	\$464,437.50	\$456,312.50	\$449,162.50	\$441,493.75	\$430,525.00	\$3,299,700.06
Construction Equipment (Waste Handler)	06-May-13	\$210,000	15-May-17	2.00%	\$74,001.67	\$72,800.00	\$71,400.00				
Soil Remediation	13-Nov-12	\$140,000	01-Nov-17	3.31%	\$33,100.00	\$32,200.00	\$26,375.00	\$25,500.00			
TOTAL RTS ENTERPRISE FUND DEBT SERVICE					\$107,101.67	\$105,000.00	\$97,775.00	\$25,500.00			
MWPAT 95-01	01-May-91	\$310,656	01-Feb-15	(see note)	\$32,021.36						
MWPAT 97-63	05-May-97	\$1,019,778	01-Aug-18	(see note)	\$98,250.26	\$96,382.43	\$94,916.69	\$91,683.46	\$91,840.00		
MWRA Loan Sewer Pump Station Richardson Drive	13-Nov-02	\$215,710	15-Feb-15		\$43,142.00						
MWRA Loan Sewer System Rehabilitation I/I	16-May-07	\$283,305	15-May-15		\$56,661.00						

Town of Needham
Capital Improvement Plan
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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE					DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Amount Issued	Final Maturity	Average Rate	2015	2016	2017	2018	2019	2020	After 2020
Sewer - MWPAT 97-13	28-Oct-96	\$67,700	01-Aug-18	(see note)	\$6,536.80	\$6,451.53	\$6,288.05	\$6,106.89	\$6,150.00		
Sewer - MWPAT 97-33	28-Oct-96	\$180,300	01-Aug-18	(see note)	\$17,374.13	\$17,019.98	\$16,720.92	\$16,208.29	\$16,195.00		
Sewer - MWPAT 98-10	05-May-97	\$130,200	01-Aug-18	(see note)	\$12,566.64	\$12,320.71	\$12,114.16	\$11,683.18	\$11,685.00		
Sewer - West Street Force Main (Refunding Bond)	01-May-98	\$568,400	01-May-19	3.98%	\$67,232.50	\$70,032.50	\$67,632.50	\$70,232.50	\$67,600.00		
Sewer - West Street Pumping Station (Refunding Bond)	01-May-98	\$1,252,300	01-May-19	3.98%	\$151,669.00	\$146,669.00	\$151,669.00	\$149,269.00	\$147,680.00		
Sewer Pump Station - GPA	11-May-05	\$500,000	01-Jun-19	3.17%	\$58,375.00	\$57,187.50	\$56,000.00	\$54,000.00	\$52,000.00		
Sewer Pump Station - Great Plain Ave.	11-May-05	\$484,550	15-Feb-15	3.59%	\$51,900.00						
Sewer Pump Station Reservoir B	04-May-09	\$90,000	15-Jul-17	2.79%	\$21,700.00	\$21,200.00	\$15,675.00	\$15,225.00			
Sewer Pump Station - Great Plain Ave.	19-May-08	\$550,000	01-Aug-28	3.36%	\$43,400.00	\$42,800.00	\$42,050.00	\$41,225.00	\$40,437.50	\$39,575.00	\$296,525.00
Sewer Pump Station Reservoir B	07-Nov-11	\$6,034,290	15-Jan-33	2.15%	\$373,887.24	\$373,945.18	\$374,005.59	\$374,065.92	\$374,128.59	\$374,191.96	\$4,870,940.30
Sewer Pump Station Richardson Drive	13-Nov-02	\$200,000	01-Apr-16	2.00%	\$15,637.50	\$15,337.50					
Sewer Rehabilitation - Rte 128 Area	07-Nov-05	\$145,000	01-Dec-19	2.59%	\$17,025.00	\$16,706.25	\$16,350.00	\$15,956.25	\$15,525.00	\$10,150.00	
Sewer Rehabilitation - Rte 128 Area	07-Nov-05	\$2,000,000	15-Nov-22	4.35%	\$134,012.50	\$129,262.50	\$124,262.50	\$119,737.50	\$115,637.50	\$111,487.50	\$239,156.25
Sewer Rehabilitation - Rte 128 Area	07-Nov-05	\$320,000	01-Aug-28	3.39%	\$22,612.50	\$22,312.50	\$21,937.50	\$21,525.00	\$21,131.25	\$20,700.00	\$177,875.00
Sewer System Rehabilitation I/I (MWRA)	16-May-07	\$57,613	15-Nov-15		\$11,522.50	\$11,522.50					
Sewer System Rehabilitation I/I (MWRA)	16-May-07	\$220,990	15-Feb-17		\$44,198.00	\$44,198.00	\$44,198.00				
TOTAL SEWER ENTERPRISE FUND DEBT SERVICE					\$1,279,723.93	\$1,083,348.08	\$1,043,819.91	\$986,917.99	\$960,009.84	\$556,104.46	\$5,584,496.55

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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE					DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE
Project	TM Vote	Amount Issued	Final Maturity	Average Rate	2015	2016	2017	2018	2019	2020	After 2020
MWPAT Water DWS-08-24	19-May-08	\$765,335	15-Jul-30	2.00%	\$49,461.22	\$49,405.29	\$49,347.11	\$49,289.34	\$49,229.64	\$49,168.68	\$536,469.95
St Mary's Pump Station	13-May-13	\$1,995,000	15-May-34	2.85%	\$148,377.29	\$148,775.00	\$146,775.00	\$144,775.00	\$142,775.00	\$140,775.00	\$1,715,650.00
Water Distribution System	18-May-09	\$300,000	01-Apr-15	1.85%	\$20,400.00						
Water Distribution System	18-May-09	\$400,000	01-Dec-24	3.02%	\$37,862.50	\$32,281.25	\$31,687.50	\$31,031.25	\$30,312.50	\$29,562.50	\$135,781.25
Water Main Improvements	19-May-08	\$185,000	01-Dec-14	2.20%	\$35,350.00						
Water Service Connections	01-May-06	\$55,000	01-Aug-19	2.51%	\$5,712.50	\$5,612.50	\$5,487.50	\$5,350.00	\$5,218.75	\$5,075.00	
Water Storage Tank Rehabilitation	19-May-08	\$655,000	01-Jun-19	3.16%	\$75,887.50	\$74,343.76	\$72,800.00	\$70,200.00	\$67,600.00		
Water System Rehab - Warren Street Area	11-May-05	\$413,500	15-Feb-15	3.60%	\$51,900.00						
Water System Rehabilitation - Rte 128 Area	15-May-06	\$165,000	01-Dec-14	2.22%	\$30,300.00						
Water System Rehabilitation - Rte 128 Area	15-May-06	\$212,000	01-Jun-19	3.16%	\$23,350.00	\$22,875.00	\$22,400.00	\$21,600.00	\$20,800.00		
Water System Rehabilitation - Rte 128 Area	15-May-06	\$1,500,000	15-Nov-22	4.32%	\$140,287.50	\$135,537.50	\$130,537.50	\$126,012.50	\$121,912.50	\$117,762.50	\$398,593.75
Water System Rehabilitation - Rte 128 Area	15-May-06	\$100,000	01-Aug-28	3.41%	\$7,537.50	\$7,437.50	\$7,312.50	\$7,175.00	\$7,043.75	\$6,900.00	\$59,425.00
Water Treatment Facility (Refunding Bond)	17-Nov-97	\$1,994,300	01-May-19	3.98%	\$237,510.50	\$237,210.50	\$236,610.50	\$239,210.50	\$240,760.00		
Water Treatment Facility (Refunding Bond)	20-May-96	\$1,710,000	01-May-19	3.98%	\$206,493.00	\$207,193.00	\$202,593.00	\$201,393.00	\$204,360.00		
TOTAL WATER ENTERPRISE FUND DEBT SERVICE					\$1,070,429.51	\$920,671.30	\$905,550.61	\$896,036.59	\$890,012.14	\$349,243.68	\$2,845,919.95

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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE					DEBT SERVICE						
Project	TM Vote	Amount Issued	Final Maturity	Average Rate	2015	2016	2017	2018	2019	2020	After 2020
Broadmeadow School (refunding bond)	01-May-00	\$8,400,000	01-Nov-23	3.00%	\$914,325.00	\$886,300.00	\$857,150.00	\$828,300.00	\$801,325.00	\$771,225.00	\$2,770,725.00
Eliot School	01-May-00	\$5,500,000	01-Jun-25	3.82%	\$421,593.76	\$411,093.76	\$399,843.76	\$388,593.76	\$352,343.76	\$341,343.76	\$1,541,718.80
High Rock & Pollard School Projects	16-May-07	\$1,120,000	01-Dec-26	3.91%	\$88,825.00	\$86,875.00	\$84,550.00	\$82,150.00	\$79,675.00	\$77,125.00	\$454,800.00
High Rock & Pollard School Projects (Series III)	16-May-07	\$5,000,000	01-Aug-27	4.69%	\$430,862.50	\$420,262.50	\$409,662.50	\$398,731.25	\$387,137.50	\$375,212.50	\$2,501,125.00
High Rock & Pollard School Projects (Series IV)	16-May-07	\$10,500,000	01-Aug-28	3.35%	\$812,837.50	\$801,737.50	\$787,862.50	\$772,600.00	\$758,031.25	\$742,075.00	\$5,799,750.00
High Rock School Designs	01-Nov-06	\$480,000	01-Dec-26	3.91%	\$37,343.75	\$36,531.25	\$35,562.50	\$34,562.50	\$33,531.25	\$32,468.75	\$199,500.00
High School (Series I)	12-May-03	\$10,000,000	01-May-26	4.01%	\$801,250.00	\$779,250.00	\$757,250.00	\$735,250.00	\$713,250.00	\$641,250.00	\$3,426,875.00
High School (Series IIA)	12-May-03	\$9,000,000	01-Dec-24	3.89%	\$748,887.50	\$731,662.50	\$711,125.00	\$689,925.00	\$668,062.50	\$645,537.50	\$2,903,400.00
High School (Series IIB)	07-Feb-05	\$2,000,000	01-Dec-26	3.91%	\$156,843.75	\$153,431.25	\$149,362.50	\$145,162.50	\$140,831.25	\$136,368.75	\$837,900.00
High School (Series III)	07-Feb-05	\$3,850,000	01-Jun-28	3.42%	\$292,950.00	\$288,200.00	\$283,450.00	\$275,450.00	\$267,450.00	\$259,450.00	\$1,742,100.00
Library Project (refunding bond)	07-May-03	\$6,510,000	01-Dec-19	3.00%	\$964,025.00	\$933,750.00	\$902,000.00	\$870,550.00	\$830,475.00	\$796,775.00	
Library Project (Series II)	07-May-03	\$750,000	15-Feb-15	3.59%	\$93,420.00						
Newman School (Series I)	02-Nov-09	\$1,000,000	01-Dec-19	2.62%	\$114,500.00	\$112,375.00	\$110,000.00	\$107,375.00	\$104,500.00	\$101,500.00	
Newman School (Series III)	02-Nov-09	\$5,000,000	01-Oct-28	3.35%	\$410,700.00	\$402,300.00	\$395,300.00	\$389,700.00	\$383,750.00	\$373,600.00	\$2,864,700.00
Newman School (Series IV)	02-Nov-09	\$9,000,000	15-Jul-32	2.82%	\$700,660.00	\$689,360.00	\$675,800.00	\$662,240.00	\$646,420.00	\$628,340.00	\$6,820,440.00
Newman School (Series V)	02-Nov-09	\$2,200,000	01-Nov-32	3.39%	\$178,200.00	\$174,900.00	\$171,600.00	\$167,750.00	\$163,350.00	\$158,950.00	\$1,750,100.00
Newman School HVAC Design and Engineering	11-May-09	\$225,000	01-Dec-14	2.20%	\$45,450.00						
TOTAL EXCLUDED FROM LEVY LIMIT DEBT SERVICE					\$7,212,673.76	\$6,908,028.76	\$6,730,518.76	\$6,548,340.01	\$6,330,132.51	\$6,081,221.26	\$33,613,133.80

Town of Needham
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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE					DEBT SERVICE						
Project	TM Vote	Amount Issued	Final Maturity	Average Rate	2015	2016	2017	2018	2019	2020	After 2020
TOTAL					\$13,564,754.94	\$12,405,931.90	\$11,877,804.09	\$10,844,989.01	\$10,154,784.41	\$8,914,712.62	\$56,740,604.30

**Previously Approved Debt Funded Capital
 Open Authorizations
 Balances Not Yet Issued**

Approved	Project	Authorized	Balance
2001	Rosemary Pool Complex - Design	\$100,000	\$7,500
2008	Sewer System Rehabilitation I/I Work	\$1,806,800	\$338,092
2009	Public Services Administration Bldg.	\$5,725,000	\$49,000
2009	Water Main Improvements	\$1,900,000	\$600,294
2010	Sewer Pump Station Reservoir B - Design	\$577,500	\$45,197
2010	Stormwater Master Plan Drainage Improvements (Latern & Gayland)	\$200,000	\$157,000
2010	Town Hall	\$14,029,233	\$1,210,000
2010	Town Hall	\$4,126,513	\$465,000
2012	RTS Construction Equipment	\$86,000	\$12,000
2012	RTS Large Specialty Equipment - Semitractor	\$152,000	\$152,000
2012	Senior Center Construction	\$8,051,808	\$383,808
2012	Sewer Pump Station Reservoir B	\$6,300,000	\$265,710
2013	Public Works Infrastructure Program	\$600,000	\$190,000
2013	Soil Remediation at RTS	\$400,000	\$168,000
2014	DPW Complex - Garage Bays	\$1,100,000	\$300,000

**Open Authorizations
 Balances Not Yet Issued**

Approved	Project	Authorized	Balance
2014	Pollard School Boiler Replacement	\$800,000	\$140,000
2014	Property Acquisition - 66 - 70 Chestnut Street	\$1,458,000	\$1,330,000
2014	Public Works Infrastructure Program	\$600,000	\$500,000
2014	RTS Construction Equipment (Waste Handler)	\$324,400	\$89,400
2014	St Mary's Pumping Station	\$5,565,100	\$3,505,100
2015	Central Avenue/Elliott Street Bridge	\$900,000	\$900,000
2015	Public Works Infrastructure Program	\$800,000	\$800,000
Total		\$55,602,354	\$11,608,101

The above projects are in various stages of completion and therefore the amount and timing of each Note and Bond issue has not yet been determined. The debt retirement will be structured to fit within the proposed budget allocation shown in the debt tables.

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