

Town of Needham  
Capital Improvement Plan  
January 2012  
Debt Service to Revenue  
Issued, Authorized and Proposed for FY2013  
FY2013 - FY2017

Description	2012	2013	2014	2015	2016	2017
<b>Revenue</b>						
<b>General Fund Within the Levy *</b>	<b>\$105,783,637</b>	<b>\$109,229,844</b>	<b>\$112,789,910</b>	<b>\$116,467,631</b>	<b>\$120,266,930</b>	<b>\$124,191,862</b>
General Fund Excluded from Levy **	\$6,716,342	\$6,761,768	\$7,754,159	\$7,367,195	\$7,025,050	\$6,814,900
CPA Revenue - Local	\$1,625,000	\$1,673,750	\$1,723,963	\$1,775,681	\$1,828,952	\$1,883,820
CPA Revenue - State Estimate	\$417,271	\$318,500	\$328,055	\$337,897	\$348,034	\$358,475
CPA Revenue	\$2,042,271	\$1,992,250	\$2,052,018	\$2,113,578	\$2,176,985	\$2,242,295
RTS Revenue	\$1,473,674	\$1,503,147	\$1,533,210	\$1,563,874	\$1,595,152	\$1,627,055
Sewer Revenue	\$7,714,308	\$7,868,594	\$8,025,966	\$8,186,485	\$8,350,215	\$8,517,219
Water Revenue	\$5,232,738	\$5,337,393	\$5,444,140	\$5,553,023	\$5,664,084	\$5,777,365
<b>Total Revenue</b>	<b>\$128,962,969</b>	<b>\$132,692,996</b>	<b>\$137,599,404</b>	<b>\$141,251,788</b>	<b>\$145,078,417</b>	<b>\$149,170,697</b>
<b>Debt Service</b>						
<b>General Debt (Table I)</b>	<b>\$3,121,297</b>	<b>\$3,231,127</b>	<b>\$3,411,750</b>	<b>\$3,201,366</b>	<b>\$3,265,065</b>	<b>\$2,963,111</b>
CPA Debt (Table II)	\$300,000	\$550,000	\$710,432	\$671,938	\$645,788	\$631,213
RTS Debt (Table III)	\$150,000	\$150,000	\$99,800	\$56,000	\$53,000	\$0
Sewer Debt (Table IV)	\$1,350,000	\$1,400,000	\$1,450,000	\$1,481,737	\$1,274,403	\$1,223,640
Water Debt (Table V)	\$1,550,000	\$1,550,000	\$1,232,938	\$1,208,640	\$1,048,391	\$1,024,777
Gross Excluded Debt (Table VI)	\$7,461,723	\$7,507,149	\$8,499,540	\$8,112,576	\$7,770,431	\$7,560,281
<b>Total Debt Service</b>	<b>\$13,933,020</b>	<b>\$14,388,276</b>	<b>\$15,404,460</b>	<b>\$14,732,257</b>	<b>\$14,057,078</b>	<b>\$13,403,022</b>
Total Debt Service to Total Revenue	10.8%	10.8%	11.2%	10.4%	9.7%	9.0%
Total Debt Service to Total Revenue (less MSBA) ***	10.3%	10.3%	10.7%	10.0%	9.2%	8.5%
<b>General Debt Service to General Revenue</b>	<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>2.7%</b>	<b>2.7%</b>	<b>2.4%</b>

\* FY2013 - FY2017 revenue is based on the August 2011 Five-Year Pro Forma modified based on current estimates.

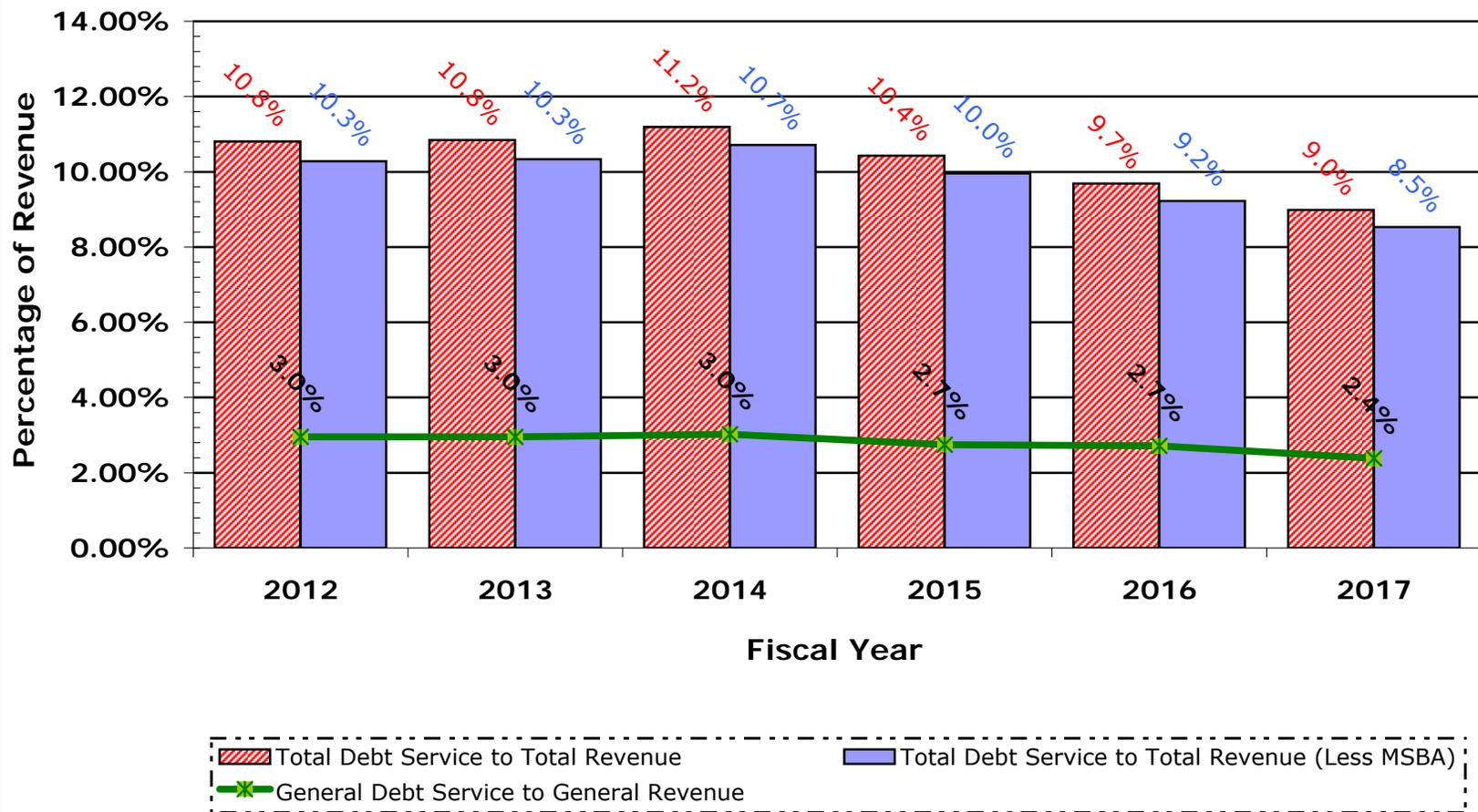
\*\* Excludes Massachusetts School Building Assistance (MSBA) Revenue

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

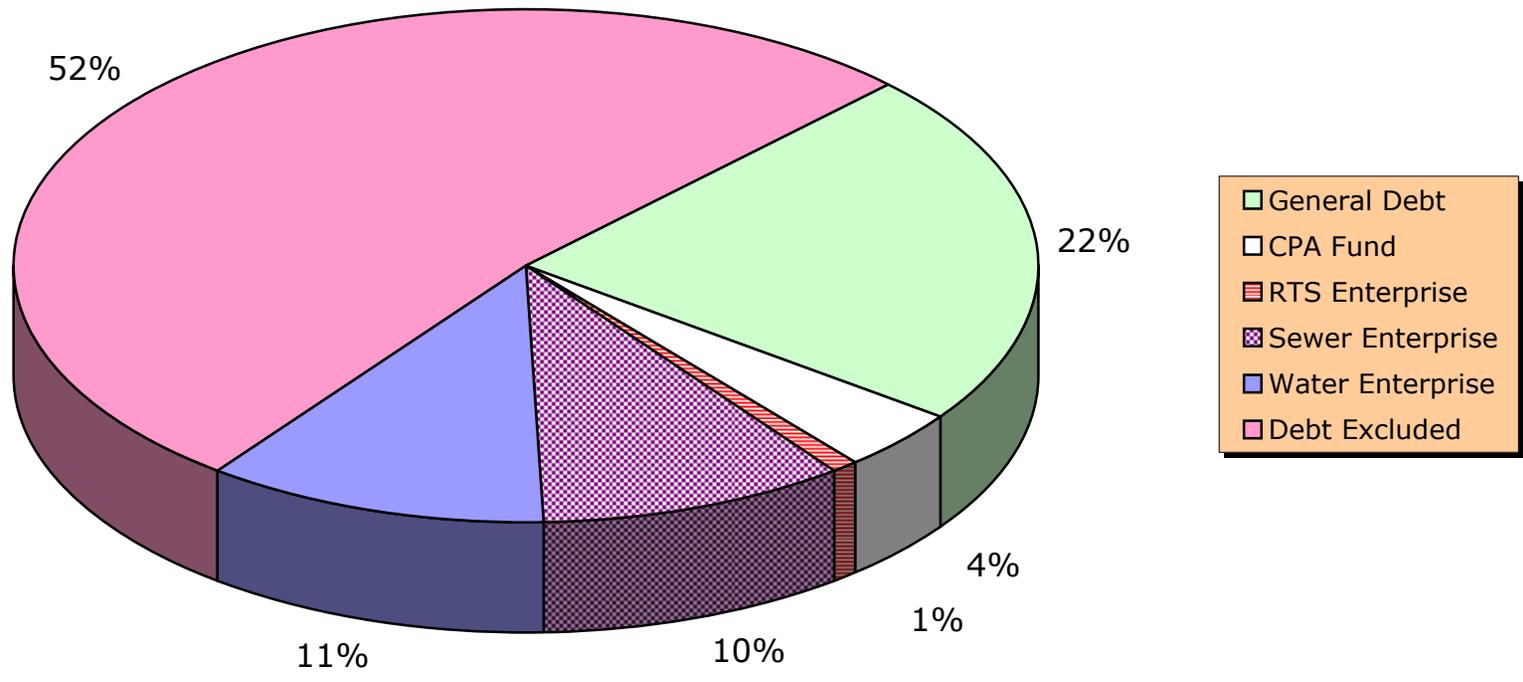
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Capital Improvement Plan  
January 2012

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## Debt Service as a Percentage of Revenue



**FY2012 Debt Service  
Share of Total**



**Projected Gross Debt Service  
\$13,933,020**

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Table I  
General Fund Capital Projects  
Proposed Funding by Debt  
FY2013

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2012	2013	2014	2015	2016	2017
<b>General Fund Within the Levy</b>									
Purchase of Real Estate	\$630,000	20	6.00%			\$69,300	\$67,410	\$65,520	\$63,630
Fire Engine Quint	\$750,000	5	6.00%			\$172,500	\$186,000	\$177,000	\$168,000
DPW Complex Phase II	\$580,000	10	6.00%			\$17,400	\$94,800	\$91,200	\$87,600
Public Works Infrastructure Program	\$600,000	5	6.00%			\$138,000	\$148,800	\$141,600	\$134,400
<b>Projected New General Fund Debt Service#</b>	<b>\$2,560,000</b>					<b>\$397,200</b>	<b>\$497,010</b>	<b>\$475,320</b>	<b>\$453,630</b>
<b>General Fund Debt</b>									
Authorized & Issued (refer to schedule)				\$2,405,135	\$2,304,734	\$1,818,650	\$1,509,576	\$1,106,625	\$885,221
Authorized Not Yet Issued & Short Term Costs Proposed				\$716,162	\$926,393	\$1,195,900	\$1,194,780	\$1,683,120	\$1,624,260
						\$397,200	\$497,010	\$475,320	\$453,630
<b>Total General Fund Debt Service Within the Levy</b>				<b>\$3,121,297</b>	<b>\$3,231,127</b>	<b>\$3,411,750</b>	<b>\$3,201,366</b>	<b>\$3,265,065</b>	<b>\$2,963,111</b>
<b>General Fund Within the Levy Revenue *</b>				<b>\$105,783,637</b>	<b>\$109,229,844</b>	<b>\$112,789,910</b>	<b>\$116,467,631</b>	<b>\$120,266,930</b>	<b>\$124,191,862</b>
<b>Debt Service % of General Fund Revenue</b>				<b>3.0%</b>	<b>3.0%</b>	<b>3.0%</b>	<b>2.7%</b>	<b>2.7%</b>	<b>2.4%</b>

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Table II  
CPA Capital Projects  
Proposed Funding by Debt  
FY2013

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2012	2013	2014	2015	2016	2017
<b>CPA Fund Debt</b>									
No New Authorizations Proposed for FY2013									
<b>Projected New CPA Fund Debt Service</b>									
<b>CPA Fund Debt</b>									
Authorized & Issued				\$283,960	\$438,249	\$398,113	\$391,638	\$384,188	\$377,713
Authorized Not Yet Issued & Short Term Costs Proposed				\$16,040	\$111,751	\$312,320	\$280,300	\$261,600	\$253,500
<b>Total CPA Fund Debt Service</b>				<b>\$300,000</b>	<b>\$550,000</b>	<b>\$710,432</b>	<b>\$671,938</b>	<b>\$645,788</b>	<b>\$631,213</b>

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Table III  
Recycling & Solid Waste Disposal Capital Projects  
Proposed Funding by Debt  
FY2013

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2012	2013	2014	2015	2016	2017
<b><u>Recycling &amp; Solid Waste Disposal Enterprise (RTS)</u></b>									
No New Authorizations Proposed for FY2013									
<b>Projected New RTS Debt Service</b>									
<b>RTS Enterprise Fund Debt</b>									
Authorized & Issued (refer to schedule)				\$94,350	\$87,550	\$40,800			
Authorized Not Yet Issued & Short Term Costs Proposed				\$55,650	\$62,450	\$59,000	\$56,000	\$53,000	
<b>Total RTS Debt Service</b>				<b>\$150,000</b>	<b>\$150,000</b>	<b>\$99,800</b>	<b>\$56,000</b>	<b>\$53,000</b>	

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Table IV  
Sewer Fund Capital Projects  
Proposed Funding by Debt  
FY2013

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2012	2013	2014	2015	2016	2017
<b>Sewer Enterprise</b>									
No New Authorizations Proposed for FY2013									
<b>Projected New Sewer Debt Service</b>									
<b>Sewer Enterprise Fund Debt</b>									
Authorized & Issued (refer to schedule)				\$1,142,889	\$1,120,158	\$1,051,628	\$844,537	\$652,053	\$616,140
Authorized Not Yet Issued & Short Term Costs Proposed				\$207,111	\$279,842	\$398,372	\$637,200	\$622,350	\$607,500
<b>Total Sewer Debt Service</b>				<b>\$1,350,000</b>	<b>\$1,400,000</b>	<b>\$1,450,000</b>	<b>\$1,481,737</b>	<b>\$1,274,403</b>	<b>\$1,223,640</b>

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Table V  
Water Fund Capital Projects  
Proposed Funding by Debt  
FY2013

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2012	2013	2014	2015	2016	2017
<b>Water Enterprise</b>									
No New Authorizations Proposed for FY2013									
<b>Projected New Water Debt Service</b>									
<b>Water Enterprise Fund Debt</b>									
Authorized & Issued (refer to schedule)				\$1,447,699	\$1,114,820	\$945,938	\$933,640	\$785,391	\$773,777
Authorized Not Yet Issued & Short Term Costs Proposed				\$102,301	\$435,181	\$287,000	\$275,000	\$263,000	\$251,000
<b>Total Water Debt Service</b>				<b>\$1,550,000</b>	<b>\$1,550,000</b>	<b>\$1,232,938</b>	<b>\$1,208,640</b>	<b>\$1,048,391</b>	<b>\$1,024,777</b>

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Table VI  
Capital Projects  
Proposed Funding by Debt Exclusion  
FY2013

Project	Amount	Years	Bond Rate	Estimated Debt Service Schedule					
				2012	2013	2014	2015	2016	2017
<b>General Fund Debt Excluded</b>									
No New Authorizations Proposed for FY2013									
<b>Projected New General Fund Debt Service Excluded</b>									
<b>General Fund Debt Excluded</b>									
Authorized & Issued (refer to schedule)				\$7,125,407	\$6,807,149	\$6,594,640	\$6,435,976	\$6,143,631	\$5,983,281
Authorized Not Yet Issued & Short Term Costs Proposed				\$336,316	\$700,000	\$1,904,900	\$1,676,600	\$1,626,800	\$1,577,000
<b>Total General Fund Excluded Debt Service</b>				<b>\$7,461,723</b>	<b>\$7,507,149</b>	<b>\$8,499,540</b>	<b>\$8,112,576</b>	<b>\$7,770,431</b>	<b>\$7,560,281</b>
<b>Projected SBA Payments/Other Adjustments</b>				<b>\$745,381</b>	<b>\$745,381</b>	<b>\$745,381</b>	<b>\$745,381</b>	<b>\$745,381</b>	<b>\$745,381</b>
<b>Net General Fund Excluded Debt Service *</b>				<b>\$6,716,342</b>	<b>\$6,761,768</b>	<b>\$7,754,159</b>	<b>\$7,367,195</b>	<b>\$7,025,050</b>	<b>\$6,814,900</b>

\* Before other offsets and credits

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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate
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Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
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**GENERAL FUND WITHIN THE LEVY LIMIT - AUTHORIZED & ISSUED**

Title V Loans - MWPAT T5-97-1027 - R	May-97	\$85,894	Dec-99	Aug-19	(see note)	\$7,055.69	\$6,794.15	\$6,529.60	\$6,265.04	\$5,922.75	\$5,662.92	\$15,365
Stormwater - MWPAT 98-92 (Restructured)	May-98	\$364,979	Sep-01	Aug-19	(see note)	\$34,505.81	\$33,750.23	\$32,889.07	\$35,649.55	\$34,152.24	\$32,701.87	\$89,590
Road Improvement Program	May-05	\$468,400	Dec-05	Feb-15	3.48%	\$11,460.00	\$11,110.00	\$10,750.00	\$10,380.00			
Road, Bridges, Sidewalks and Intersection Improvement	May-08	\$820,000	Jun-09	Jun-13	2.40%	\$213,200.00	\$209,100.00					
Public Services Administration Building (Series I)	Oct-08	\$4,000,000	Dec-09	Aug-26	3.16%	\$344,325.00	\$339,525.00	\$334,725.00	\$329,925.00	\$325,125.00	\$319,125.00	\$2,718,038
Road, Bridges, Sidewalks and Intersection Improvement	May-09	\$165,000	Dec-09	Aug-13	2.00%	\$42,000.00	\$41,200.00	\$40,400.00				
Public Safety Building Roof	May-08	\$350,000	Jun-10	Dec-14	2.20%	\$75,600.00	\$73,850.00	\$72,100.00	\$70,700.00			
Public Services Administration Building (Series II)	Oct-08	\$1,000,000	Jun-10	Dec-24	3.07%	\$86,137.50	\$84,637.50	\$83,137.50	\$81,937.50	\$85,606.25	\$84,062.50	\$648,725
Road, Bridges, Sidewalks and Intersection Improvement	May-09	\$530,000	Jun-10	Dec-13	2.31%	\$142,850.00	\$134,550.00	\$131,300.00				
Public Services Administration Building (Series III)	Oct-08	\$125,000	Oct-10	Apr-14	2.10%	\$21,200.00	\$20,800.00	\$10,200.00				
Town Hall Project (Series I)	May-09	\$2,500,000	Oct-10	Apr-17	2.24%	\$341,250.00	\$335,250.00	\$326,250.00	\$320,250.00	\$314,250.00	\$307,500.00	
Road, Bridges, Sidewalks and Intersection Improvement	May-09	\$180,000	Oct-10	Apr-13	2.11%	\$31,500.00	\$30,900.00					
Public Services Administration Building (Series IV)	Oct-08	\$28,500	Jun-11	Oct-11	3.00%	\$28,785.00						
Stormwater Drainage Improvements	May-09	\$5,000	Jun-11	Oct-11	3.00%	\$5,050.00						
Kendrick Street Bridge Design (Series II)	May-09	\$15,000	Jun-11	Oct-11	3.00%	\$15,150.00						
Road, Bridges, Sidewalks and Intersection Improvement	May-10	\$500,000	Jun-11	Oct-14	2.68%	\$134,583.33	\$133,125.00	\$130,000.00	\$126,875.00			
Senior Center Design	Nov-10	\$350,000	Jun-11	Oct-13	2.55%	\$155,875.00	\$128,375.00	\$75,750.00				

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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate	Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
Town Hall (Series III)	May-09	\$385,000	Oct-11	Aug-26	2.63%		\$46,522.42	\$33,281.26	\$32,781.26	\$32,281.26	\$31,781.26	\$285,484
Parking Lot Improvement (Marked Lee)	May-08	\$100,000	Oct-11	Aug-16	2.00%		\$22,372.22	\$21,400.00	\$21,000.00	\$20,600.00	\$20,200.00	
Kendrick Street Bridge Repair	May-10	\$750,000	Oct-11	Aug-21	2.21%		\$94,747.40	\$88,687.50	\$87,187.50	\$85,687.50	\$84,187.50	\$397,219
Mitchell School Roof	Nov-06	\$580,000	Jun-07	Nov-11	4.31%	\$117,443.75						
Hillside & Mitchell Schools Paving Work	May-08	\$90,000	Nov-08	Aug-11	3.46%	\$30,525.00						
Pollard School Repairs	Nov-10	\$325,000	Jun-11	Oct-13	2.81%	\$155,666.67	\$152,750.00	\$25,250.00				
Pollard School Roof Replacement	Nov-10	\$1,000,000	Jun-11	Oct-15	2.80%	\$220,333.33	\$219,000.00	\$214,000.00	\$209,000.00	\$203,000.00		
Pollard School Parking and Access	Mar-11	\$702,200	Jun-11	Oct-14	2.68%	\$190,638.67	\$186,375.00	\$182,000.00	\$177,625.00			
<b>GENERAL FUND DEBT SERVICE - WITHIN THE LEVY LIMIT</b>						<b>\$2,405,135</b>	<b>\$2,304,734</b>	<b>\$1,818,650</b>	<b>\$1,509,576</b>	<b>\$1,106,625</b>	<b>\$885,221</b>	<b>\$4,154,421</b>

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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate	Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
<b>GENERAL FUND DEBT EXCLUDED FROM THE LEVY LIMIT - AUTHORIZED &amp; ISSUED</b>												
Library Project (Series I)	May-03	\$11,000,000	Dec-04	Dec-19	3.90%	\$1,084,562.50	\$1,056,037.50	\$1,026,493.75	\$994,912.50	\$962,312.50	\$929,712.50	\$2,583,431
Library Project (Series II)	May-03	\$750,000	Dec-05	Feb-15	3.59%	\$102,955.00	\$99,805.00	\$91,565.00	\$93,420.00			
High School (Series I)	May-03	\$10,000,000	Nov-06	May-26	4.01%	\$865,875.00	\$845,250.00	\$823,250.00	\$801,250.00	\$779,250.00	\$757,250.00	\$5,516,625
Broadmeadow School	May-00	\$14,000,000	Nov-03	Nov-23	4.09%	\$1,066,100.00	\$1,040,725.00	\$1,013,600.00	\$985,600.00	\$957,600.00	\$929,600.00	\$5,671,400
Eliot School	May-00	\$5,500,000	Jun-05	Jun-25	3.82%	\$408,893.76	\$399,793.76	\$390,693.76	\$421,593.76	\$411,093.76	\$399,843.76	\$2,624,000
High Rock School - Designs	Nov-06	\$45,000	Dec-07	Jun-12	3.28%	\$10,325.00						
High Rock & Pollard School Projects	May-07	\$600,000	Dec-07	Jun-12	3.28%	\$154,875.00						
High Rock School - Designs	Nov-06	\$480,000	Jun-08	Dec-26	3.91%	\$39,781.25	\$38,968.75	\$38,156.25	\$37,343.75	\$36,531.25	\$35,562.50	\$300,063
High Rock & Pollard School Projects	May-07	\$1,120,000	Jun-08	Dec-26	3.91%	\$94,675.00	\$92,725.00	\$90,775.00	\$88,825.00	\$86,875.00	\$84,550.00	\$693,750
High School (Series IIA)	May-03	\$9,000,000	Jun-08	Dec-24	3.89%	\$800,562.50	\$783,337.50	\$766,112.50	\$748,887.50	\$731,662.50	\$711,125.00	\$4,906,925
High School (Series IIB)	Feb-05	\$2,000,000	Jun-08	Dec-26	3.91%	\$167,081.25	\$163,668.75	\$160,256.25	\$156,843.75	\$153,431.25	\$149,362.50	\$1,260,263
High Rock & Pollard School Projects (Series III)	May-07	\$5,000,000	Nov-08	Aug-27	4.69%	\$459,350.00	\$450,075.00	\$440,800.00	\$430,862.50	\$420,262.50	\$409,662.50	\$3,662,206
High School (Series III)	Feb-05	\$3,850,000	Jun-09	Jun-28	3.42%	\$310,650.00	\$306,550.00	\$297,450.00	\$292,950.00	\$288,200.00	\$283,450.00	\$2,544,450
High Rock & Pollard School Projects (Series IV)	May-07	\$10,500,000	Dec-09	Aug-28	3.35%	\$846,137.50	\$835,037.50	\$823,937.50	\$812,837.50	\$801,737.50	\$787,862.50	\$8,072,456
Newman School HVAC Design and Engineering (Series I)	May-09	\$225,000	Jun-10	Dec-14	2.20%	\$48,600.00	\$47,475.00	\$46,350.00	\$45,450.00			
Newman School Extraordinary Repairs (Series I)	Nov-09	\$1,000,000	Jun-10	Dec-19	2.62%	\$121,500.00	\$119,000.00	\$116,500.00	\$114,500.00	\$112,375.00	\$110,000.00	\$313,375
High Rock & Pollard School Projects (Series V)	May-07	\$60,000	Oct-10	Apr-12	1.76%	\$30,600.00						

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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate	Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
Newman School Extraordinary Repairs (Series II)	Nov-09	\$675,000	Oct-10	Apr-14	2.07%	\$106,000.00	\$104,000.00	\$51,000.00				
Newman School Extraordinary Repairs (Series III)	Nov-09	\$5,000,000	Jun-11	Oct-28	3.35%	\$406,883.33	\$424,700.00	\$417,700.00	\$410,700.00	\$402,300.00	\$395,300.00	\$4,011,750
<b>EXCLUDED DEBT</b>						<b>\$7,125,407</b>	<b>\$6,807,149</b>	<b>\$6,594,640</b>	<b>\$6,435,976</b>	<b>\$6,143,631</b>	<b>\$5,983,281</b>	<b>\$42,160,694</b>

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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate
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Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
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**CPA FUND DEBT - AUTHORIZED & ISSUED**

Town Hall (Series II)	May-09	\$3,500,000	Jun-11	Oct-28	3.36%
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\$283,960.42	\$296,487.50	\$291,612.50	\$286,737.50	\$280,887.50	\$276,012.50	\$2,819,969
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Town Hall (Series III)	May-09	\$1,225,000	Oct-11	Aug-26	2.63%
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	\$141,761.67	\$106,500.00	\$104,900.00	\$103,300.00	\$101,700.00	\$913,550
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<b>CPA DEBT</b>						
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<b>\$283,960</b>	<b>\$438,249</b>	<b>\$398,113</b>	<b>\$391,638</b>	<b>\$384,188</b>	<b>\$377,713</b>	<b>\$3,733,519</b>
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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate
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Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
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**RTS FUND DEBT FEE SUPPORTED - AUTHORIZED & ISSUED**

Collection Packer	May-08	\$125,000	Dec-09	Aug-12	2.00%
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\$41,200.00	\$40,400.00					
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Construction Equipment (FE Loader)	May-09	\$165,000	Oct-10	Apr-14	2.29%
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\$53,150.00	\$47,150.00	\$40,800.00				
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<b>RTS DEBT SERVICE</b>					
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\$94,350	\$87,550	\$40,800				
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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate
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Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
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**SEWER FUND DEBT SERVICE FEE SUPPORTED - AUTHORIZED & ISSUED**

MWPAT 95-01 - RESTRUCTURED	May-91	\$310,656	Aug-01	Feb-15	(see note)	\$32,109.80	\$32,080.28	\$32,060.89	\$32,021.36			
Sewer - WEST STREET FORCE MAIN	May-98	\$881,800	Jun-99	Jun-19	4.83%	\$67,237.50	\$70,100.00	\$67,700.00	\$70,250.00	\$72,500.00	\$69,500.00	\$139,750
Sewer - WEST STREET PUMPING STATION	May-98	\$1,939,000	Jun-99	Jun-19	4.83%	\$154,152.50	\$154,165.00	\$153,885.00	\$153,250.00	\$152,250.00	\$156,000.00	\$306,500
Sewer - MWPAT 97-13 (Restructured)	Oct-96	\$67,700	Nov-04	Aug-18	(see note)	\$6,406.31	\$6,557.67	\$6,508.77	\$6,536.80	\$6,451.53	\$6,288.05	\$12,257
Sewer - MWPAT 97-33 (Restructured)	Oct-96	\$180,300	Nov-04	Aug-18	(see note)	\$17,194.08	\$17,592.86	\$17,426.84	\$17,374.13	\$17,019.98	\$16,720.92	\$32,403
MWPAT 97-63 (Restructured 2)	May-97	\$1,019,778	Nov-04	Aug-18	(see note)	\$97,016.78	\$99,729.25	\$98,416.74	\$98,250.26	\$96,382.43	\$94,916.69	\$183,523
Sewer - MWPAT 98-10 (Restructured)	May-97	\$130,200	Nov-04	Aug-18	(see note)	\$12,388.11	\$12,792.53	\$12,594.41	\$12,566.64	\$12,320.71	\$12,114.16	\$23,368
Sewer System Rehab - I/I Work	May-03	\$425,000	Jun-05	Jun-14	3.14%	\$44,200.00	\$42,800.00	\$41,400.00				
Sewer Pump Station - Great Plain Ave.	May-05	\$484,550	Dec-05	Feb-15	3.59%	\$62,840.00	\$60,915.00	\$58,935.00	\$51,900.00			
Sewer Rehabilitation - Rte 128 Area	Nov-05	\$2,000,000	Jun-07	Nov-22	4.35%	\$141,781.25	\$142,637.50	\$138,387.50	\$134,012.50	\$129,262.50	\$124,262.50	\$586,019
Sewer Pump Station - GPA	May-05	\$500,000	Jun-09	Jun-19	3.17%	\$61,500.00	\$60,500.00	\$59,500.00	\$58,375.00	\$57,187.50	\$56,000.00	\$106,000
Sewer System Rehabilitation I/I	May-07	\$725,000	Jun-10	Jun-14	2.35%	\$154,062.50	\$151,162.50	\$148,262.50				
Sewer Rehabilitation - Rte 128 Area	Nov-05	\$320,000	Dec-09	Aug-28	3.39%	\$28,762.50	\$28,362.50	\$27,962.50	\$22,612.50	\$22,312.50	\$21,937.50	\$241,231
Sewer Pump Station GPA	May-08	\$550,000	Dec-09	Aug-28	3.36%	\$45,200.00	\$44,600.00	\$44,000.00	\$43,400.00	\$42,800.00	\$42,050.00	\$417,763
MWRA Loan Sewer Pump Station Richardson Drive	Nov-02	\$215,710	Feb-10	Feb-15		\$43,142.00	\$43,142.00	\$43,142.00	\$43,142.00			
MWRA Loan Sewer System Rehabilitation I/I	May-07	\$283,305	May-10	May-15		\$56,661.00	\$56,661.00	\$56,661.00	\$56,661.00			
Sewer Rehabilitation - Rte 128 Area	Nov-05	\$145,000	Jun-10	Dec-19	2.59%	\$18,075.00	\$17,700.00	\$17,325.00	\$17,025.00	\$16,706.25	\$16,350.00	\$41,631

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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate	Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
Sewer Pump Station Richardson Drive	Nov-02	\$200,000	Oct-10	Apr-16	2.00%	\$16,687.50	\$16,387.50	\$15,937.50	\$15,637.50	\$15,337.50		
Sewer System Rehabilitation I/I (MWRA)	May-07	\$57,613	Nov-10	Nov-15		\$11,522.50	\$11,522.50	\$11,522.50	\$11,522.50	\$11,522.50		
Sewer System Rehab - I/I Work	May-03	\$95,000	Jun-11	Oct-12	3.00%	\$46,700.00	\$50,750.00					
Sewer Rehabilitation - Rte 128 Area	Nov-05	\$25,000	Jun-11	Oct-11	3.00%	\$25,250.00						
<b>SEWER DEBT SERVICE</b>						<b>\$1,142,889</b>	<b>\$1,120,158</b>	<b>\$1,051,628</b>	<b>\$844,537</b>	<b>\$652,053</b>	<b>\$616,140</b>	<b>\$2,090,446</b>

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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate	Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
<b>WATER FUND DEBT SERVICE FEE SUPPORTED - AUTHORIZED &amp; ISSUED</b>												
Water Treatment Facility	May-96	\$2,665,000	Jun-99	Jun-19	4.83%	\$212,182.50	\$210,295.00	\$208,095.00	\$210,500.00	\$212,250.00	\$208,500.00	\$419,500
Water Treatment Facility	Nov-97	\$3,090,000	Jun-99	Jun-19	4.83%	\$243,302.50	\$245,465.00	\$247,065.00	\$243,000.00	\$243,500.00	\$243,500.00	\$494,750
Water Systems - Broadmeadow Street	Nov-00	\$257,304	Jul-01	Aug-11	ZERO	\$25,730.40						
Water System Rehab - Warren Street Area	May-05	\$413,500	Dec-05	Feb-15	3.60%	\$51,945.00	\$50,370.00	\$53,750.00	\$51,900.00			
Water Service Connections	May-06	\$50,000	Jun-07	Nov-11	4.31%	\$10,212.50						
Water System Rehabilitation - Rte 128 Area	May-06	\$1,500,000	Jun-07	Nov-22	4.32%	\$178,693.75	\$148,912.50	\$144,662.50	\$140,287.50	\$135,537.50	\$130,537.50	\$764,281
Water System Rehabilitation - Webster	May-03	\$100,000	Dec-07	Jun-12	3.28%	\$25,812.50						
Water System Design	May-01	\$25,000	Dec-07	Jun-12	3.28%	\$5,162.50						
Water Service Connections	May-06	\$100,000	Dec-07	Jun-12	3.28%	\$25,812.50						
Water Storage Tank Rehabilitation	May-07	\$600,000	Dec-07	Jun-12	3.28%	\$185,850.00						
Water System Rehabilitation - Rte 128 Area	May-06	\$230,000	Nov-08	Aug-12	3.48%	\$57,887.50	\$55,962.50					
Water System Rehabilitation - Rte 128 Area	May-06	\$212,000	Jun-09	Jun-19	3.16%	\$28,637.50	\$23,157.50	\$22,777.50	\$23,350.00	\$22,875.00	\$22,400.00	\$42,400
Water Storage Tank Rehabilitation	May-08	\$655,000	Jun-09	Jun-19	3.16%	\$81,012.50	\$79,692.50	\$78,372.50	\$75,887.50	\$74,343.76	\$72,800.00	\$137,800
Water Service Connections	May-06	\$55,000	Dec-09	Aug-19	2.51%	\$6,012.50	\$5,912.50	\$5,812.50	\$5,712.50	\$5,612.50	\$5,487.50	\$15,644
Water System Rehabilitation - Rte 128 Area	May-06	\$100,000	Dec-09	Aug-28	3.41%	\$7,837.50	\$7,737.50	\$7,637.50	\$7,537.50	\$7,437.50	\$7,312.50	\$80,544
Water System Rehabilitation - Rte 128 Area	May-06	\$165,000	Jun-10	Dec-14	2.22%	\$37,600.00	\$36,725.00	\$30,900.00	\$30,300.00			
Water Main Improvements	May-08	\$185,000	Jun-10	Dec-14	2.20%	\$42,850.00	\$36,925.00	\$36,050.00	\$35,350.00			

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**TOWN OF NEEDHAM DEBT SERVICE - SCHEDULE OF AUTHORIZED & ISSUED**

Project	T.M. Vote	Amount Issued	Bond Issued	Final Maturity	Average Rate	Debt Service 2012	Debt Service 2013	Debt Service 2014	Debt Service 2015	Debt Service 2016	Debt Service 2017	After 2017
Water Distribution System Rehab (Chapel & May) (Pickerin	May-09	\$400,000	Jun-10	Dec-24	3.02%	\$39,962.50	\$39,212.50	\$38,462.50	\$37,862.50	\$32,281.25	\$31,687.50	\$226,688
Water Distribution System Rehab (Chapel & May) (Pickerin	May-09	\$300,000	Oct-10	Apr-15	1.85%	\$21,800.00	\$21,400.00	\$20,800.00	\$20,400.00			
Water Distribution System Rehab (Chapel & May) (Pickerin	May-09	\$204,300	Jun-11	Oct-12	3.00%	\$107,843.00	\$101,500.00					
Water Main Improvements	May-08	\$849,815	Jul-10	Jul-30	2.00%	\$51,552.25	\$51,552.10	\$51,552.70	\$51,552.76	\$51,552.99	\$51,552.10	\$721,736
<b>WATER DEBT SERVICE</b>						<b>\$1,447,699</b>	<b>\$1,114,820</b>	<b>\$945,938</b>	<b>\$933,640</b>	<b>\$785,391</b>	<b>\$773,777</b>	<b>\$2,903,342</b>
<b>TOTAL</b>						<b>\$12,499,441</b>	<b>\$11,872,660</b>	<b>\$10,849,768</b>	<b>\$10,115,367</b>	<b>\$9,071,888</b>	<b>\$8,636,132</b>	<b>\$55,042,421</b>

Note: Massachusetts Water Pollution Abatement Trust (MWPAT) loans include many communities and multiple loans and are frequently restructured by the Trust. The program provides grants and other financial assistance which in effect results in low or no interest rate loan. Under the program the Town usually pays less than it borrows from the Trust.

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**Town of Needham  
Current Long Term Debt Service Obligations  
Inclusive of the October 2011 Bond Issue**

Fiscal Year	General	Excluded	CPA	RTS	Sewer	Water	Total
2012	\$2,405,134.75	\$7,125,407.09	\$283,960.42	\$94,350.00	\$1,142,889.33	\$1,447,699.40	\$12,499,440.99
2013	\$2,304,733.92	\$6,807,148.76	\$438,249.17	\$87,550.00	\$1,120,158.09	\$1,114,819.60	\$11,872,659.54
2014	\$1,818,649.93	\$6,594,640.01	\$398,112.50	\$40,800.00	\$1,051,628.15	\$945,937.70	\$10,849,768.29
2015	\$1,509,575.85	\$6,435,976.26	\$391,637.50		\$844,537.19	\$933,640.26	\$10,115,367.06
2016	\$1,106,625.00	\$6,143,631.26	\$384,187.50		\$652,053.40	\$785,390.50	\$9,071,887.66
2017	\$885,221.05	\$5,983,281.26	\$377,712.50		\$616,139.82	\$773,777.10	\$8,636,131.73
2018	\$545,390.66	\$5,817,775.01	\$372,212.50		\$603,875.57	\$770,421.53	\$8,109,675.27
2019	\$533,674.91	\$5,620,025.01	\$366,468.75		\$591,101.25	\$761,190.21	\$7,872,460.13
2020	\$521,126.96	\$5,394,562.51	\$357,700.00		\$181,912.50	\$210,852.58	\$6,666,154.55
2021	\$486,031.26	\$4,322,843.76	\$346,050.00		\$136,856.25	\$225,208.32	\$5,516,989.59
2022	\$473,687.51	\$4,179,656.26	\$336,615.63		\$132,475.00	\$219,052.84	\$5,341,487.24
2023	\$386,762.51	\$4,042,506.26	\$329,031.26		\$128,025.00	\$212,796.30	\$5,099,121.33
2024	\$375,318.76	\$3,893,906.26	\$320,881.26		\$50,100.00	\$84,127.86	\$4,724,334.14
2025	\$338,981.26	\$3,070,318.76	\$312,387.51		\$48,700.00	\$83,077.42	\$3,853,464.95
2026	\$253,856.26	\$2,170,125.00	\$303,406.26		\$47,200.00	\$57,452.87	\$2,832,040.39
2027	\$239,590.63	\$1,589,800.00	\$294,131.26		\$45,600.00	\$57,252.84	\$2,226,374.73

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**Town of Needham**  
**Current Long Term Debt Service Obligations**  
**Inclusive of the October 2011 Bond Issue**

Fiscal Year	General	Excluded	CPA	RTS	Sewer	Water	Total
2028		\$1,253,375.00	\$205,934.38		\$68,500.00	\$57,051.97	\$1,584,861.35
2029		\$805,800.00	\$188,700.00		\$56,100.00	\$61,752.87	\$1,112,352.87
2030						\$51,552.15	\$51,552.15
2031						\$51,552.42	\$51,552.42
2032							

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**Open Authorizations  
Balances Not Yet Issued**

Approved	Project	Authorized	Balance
2001	Rosemary Pool Complex - Design	\$100,000	\$72,500
2003	Parking Lot Dedham Avenue	\$180,000	\$9,500
2003	Water Pumping Station Design - St. Mary's St.	\$300,000	\$180,000
2004	Sewer System Rehab - I/I Work	\$1,000,000	\$13,000
2006	Ridge Hill Rehabilitation	\$126,875	\$104,600
2006	Water System Rehabilitation (Warren Street)	\$913,500	\$30,000
2006	Rte 128 Sewer Main Relocation	\$3,500,000	\$90,000
2007	Water System Improvements (Rte 128 Area)	\$3,000,000	\$735,000
2007	Mitchell School Roof Repair	\$700,000	\$11,400
2008	High Rock and Pollard School Project	\$20,475,000	\$274,000
2008	Sewer System Rehabilitation I/I Work	\$1,806,800	\$280,150
2009	Municipal Parking Lot Improvements	\$105,000	\$5,000
2009	Public Safety Building Roof	\$535,000	\$61,500
2009	Street & Traffic Light Improvements	\$105,000	\$25,000
2009	Wastewater Pump Station at GPA	\$770,000	\$33,000
2009	Water Main Improvements	\$1,900,000	\$600,294

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**Open Authorizations  
Balances Not Yet Issued**

Approved	Project	Authorized	Balance
2009	Water Storage Tank Cleaning & Painting	\$730,000	\$75,000
2009	Public Services Administration Bldg	\$5,725,000	\$294,000
2010	Sewer Pump Station Design Reservoir B	\$577,500	\$575,497
2010	Stormwater Master Plan Drainage Improvements	\$200,000	\$160,000
2010	Kendrick Street Bridge Design	\$125,000	\$35,000
2010	RTS Front End Loader	\$230,000	\$45,000
2010	Town Hall (CPA Portion)	\$14,029,233	\$2,459,000
2010	Town Hall (GF Portion)	\$4,126,513	\$865,000
2010	Water Distribution System Rehabilitation	\$1,000,000	\$80,000
2010	Newman School Extraordinary Repairs	\$26,962,128	\$20,269,128
2011	Public Works Infrastructure Improvement Program	\$1,236,300	\$556,300
2011	Kendrick Street Bridge Repair	\$850,000	\$100,000
2011	Pollard School Roof Repair	\$3,500,000	\$2,250,000
2011	Senior Center Feasibility & Design	\$500,000	\$150,000
2011	Pollard School Parking & Access Improvements	\$758,000	\$55,800
2012	Public Works Infrastructure Improvement Program	\$1,100,000	\$1,100,000

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**Open Authorizations  
Balances Not Yet Issued**

Approved	Project	Authorized	Balance
2012	Booth Street	\$125,000	\$125,000
2012	Fire Engine	\$400,000	\$400,000
2012	Needham High School Roof	\$320,000	\$240,000
2012	RTS Construction Equipment	\$86,000	\$86,000
2012	RTS Semi-Tractor Equipment	\$152,000	\$152,000
2012	Senior Center Construction	\$8,051,808	\$8,051,808
2012	Sewer Pump Station Reservoir B	\$6,300,000	\$6,300,000
<b>Total</b>		<b>\$112,601,657</b>	<b>\$46,949,477</b>

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.