

TOWN OF NORTH ANDOVER

CAPITAL IMPROVEMENT PLAN GENERAL FUND ENTERPRISE FUND

2017 - 2021

TOWN MANAGER RECOMMENDATION



Board of Selectmen

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Town Manager

Andrew W. Maylor

Finance Director / Town Accountant

Lyne M. Savage

December 2015

FY17-21
Capital Improvement Plan
General Fund – Enterprise Funds
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Town Manager

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December 9, 2015

Chairman Watson and the North Andover Board of Selectmen

Dear Board Members:

Pursuant to Chapter 9, Section 5 of the Town Charter, I hereby submit to you for your consideration the Town Manager's recommended Capital Improvement Plan (CIP) for the General Fund and the Town's Enterprise Funds for FY17 through FY21. The evaluation of CIP requests remains true to the process of prior years in that each project is rated and scored based upon accepted ranking criteria.

At your strategic planning meeting held this past October, you once again affirmed the town's common goal to continue to implement practices which will result in establishing a sustainable municipality and ensure the stewardship of town assets. This Capital Improvement Program is predicated on achieving that goal by requesting funding which helps maintain our infrastructure and increases our ability to efficiently deliver services while controlling debt service as a percentage of operating revenues. It is also a primary tenet of the plan to compel department heads to think beyond the immediate term and focus on mid-range needs as well.

Specifically, this CIP requests funding for annual building maintenance, roadway improvements, the adopted Facilities Master Plan, various rolling stock, playground improvements, and information technology enhancements. Consistent annual capital investments in each of these categories will prevent us from returning to the days of deferred maintenance and reactionary responses to projects which could easily have been part of the "plan".

For the foreseeable future, I will continue the practice of remaining focused on controlling debt service as a percentage of operating revenue. Our target has been and continues to be at or below 5% unless circumstances arise, such as increased interest rates, which adversely impacts the Town's ability to do so. It should be noted that this calculation does not include either the debt service of the ESCo project or the corresponding reduction in utility costs

associated with that initiative. The recommended General Fund CIP for FY17 results in a debt service to revenues percentage of 4.39% which is slightly higher than FY16 when that percentage was 4.10%. For four of the five years of the CIP this percentage remains below the 5% target even when including the ESCo project and five out of five years when excluding that debt service. Given the additional spending on facilities related projects during the past five fiscal years and for the foreseeable future, the debt service to revenues percentage is trending upward.

The previous target percentage for the Enterprise Funds was between 25%-28% of revenues. However, with the strong growth in retained earnings in these funds combined with the Financial Reserve Policy guidelines for using retained earnings, a significant portion of the proposed capital projects in these funds will be funded on a pay-as-you-go basis which will further reduce the percentages. For all five years of the CIP the debt service to revenue ratios for both the Water and Sewer Enterprise Funds will be lower than the target, in some cases substantially. All debt service calculations assume a cost of capital of over 4% which is at least 75 basis point greater than current market.

Additionally, this plan continues the practice begun three years ago to increase "pay-as-you-go" funding of capital projects. Therefore, the CIP assumes that all requests which comply with the criteria to be considered a capital project, but cost less than \$50,000, will be included in the operating budgets of the respective requesting departments. Although, the \$25K minimum standard in our policy for a project to qualify as a CIP item is appropriate, altering the past practice when the budget allows is a sound financial practice.

This CIP retains the enhancements made in previous years by including information on other sources of funding that are used for projects, such as state funded Chapter 90 dollars to be used to improve roadways, the use of Capital Stabilization funds, the repurposing of unused bond proceeds, and the use of retained earnings for various Enterprise Fund projects. In a similar vein, this year the CIP includes the use of modest amounts of "Free Cash" which is a reflection of the town's current positive financial position.

The recommended CIP for FY17-FY21 calls for total funding during the five year period of \$33,465,757 with \$24,890,757 of this total dedicated to General Fund projects, \$6,975,000 for projects in the Water Enterprise Fund, \$1,300,000 for the Sewer Enterprise Fund, and \$300,000 for Stevens Estate projects. Of this amount \$8,539,800 will be funded from outside sources, with the remainder of \$24,925,957 being bonded for periods ranging from 5 years to 20 years depending on the type of project or equipment.

For FY17, General Fund Projects have a total cost of \$ 7,732,757 (\$ 6,697,957 net of outside sources). The Water Enterprise Fund requests total \$475,000 all of which will be funded by retained earnings and in FY17. The Sewer Enterprise Fund recommendation is \$150,000 that will also be funded by retained earnings per the Town's Financial Reserve Policy. Funding of the approved Facilities Master Plan continues through FY19. With the recent opening of the new central fire station the town has now completed the first three "Phases" of this unique plan and the FY17 appropriation request includes funding for improvements to the Public Works facility and dollars to design much needed additional classroom space for certain public schools.

During this CIP five year period, we will also expand the existing Senior Center and begin planning for Facilities Master Plan II.

With nearly \$6.5 million recommended for street and sidewalk improvements and repairs, the continued commitment to this category remains intact for this CIP. Notable within this CIP is the inclusion of capital improvements at the Stevens Estate. For the first time since the town purchased the Estate in 1995 the financial condition of the function facility warrants using excess retained earnings to reinvest in much needed repairs to the building. Also, the Capital Stabilization Fund established several years ago will allow for the planned replacement of the artificial turf fields at the high school. One of most significant differences in this plan versus last year's plan is the earlier timing of the significant work needed at the Water Treatment Plant based upon feedback from the town's engineers. Another difference is the FY17 addition of both a new mini bus for the Senior Center and the need to replace the Town's voting machines which were left off of last year's plan in the hopes that they could be funded through the operating budget.

I have been quoted as saying that "Just because our **Current** looks better than our **Past** doesn't mean that our **Future** is still not dependent on the decisions we make **Today**." The Five Year Capital Plan is at the heart of our commitment to be stewards of the community we are fortunate to serve. Gone are the days of excessive deferred maintenance. Our goal now must be a thoughtful plan for ensuring progress and sustainability while managing the financial impact of our investment so as not to adversely impact service levels. I would like to thank Finance Director/Town Accountant Lyne Savage and Assistant Town Manager Ray Santilli for their invaluable assistance in developing the CIP. Both Lyne and I are available to respond to any questions or requests for information that you may have.

Sincerely,



Andrew W. Maylor
Town Manager

Cc: Finance Committee
School Committee/Superintendent
Division/Department Directors

GENERAL FUND

Recommended G.F.Capital Budget Projects by Criteria Points and Year Funded (FY17-FY21)

Footnote	Project Name	Division	Criteria	Borrowing	Year 1	Year 2	Year 3	Year 4	Year 5	Total
			Points	Years	FY17	FY18	FY19	FY20	FY21	
A	Municipal IT (FY17-FY21)	Information Tech		5	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
	VOIP Phone System Upgrade	Information Tech		5					\$100,000	\$100,000
	Voting Equipment Replacement	Town Clerk		5	\$62,800					\$62,800
	Building Maintenance (FY17-FY21)	Facilities		5	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$1,125,000
	Sport-Turf Field Surface Replacement	School		10	\$100,000	\$750,000				\$850,000
	School IT (FY17-FY21)	School		5	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
	Atkinson Elementary Roof	School		10			\$464,500			\$464,500
	District Wide Paving	School		10					\$200,000	\$200,000
	School Drainage	School		10					\$100,000	\$100,000
	Roadway Improvements (FY17-FY21)	Public Works		5	\$1,230,000	\$1,210,000	\$1,230,000	\$1,160,000	\$1,280,000	\$6,110,000
	Sidewalks Reconstruction (FY17-FY21)	Public Works		10	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
	Equipment - Sweeper	Public Works		10	\$185,000					\$185,000
	Water & High St Intersection & Streetscape Improv	Public Works		10	\$325,000	\$475,000				\$800,000
	6 Wheel Dump Truck	Public Works		5	\$180,000		\$200,000		\$200,000	\$580,000
	Backhoe	Public Works		5			\$95,000			\$95,000
	Replacement Mini Bus	Senior Center		5	\$52,000					\$52,000
	Facilities Master Plan	Town Mgr		20	\$4,620,885	\$1,957,500	\$4,316,000			\$10,894,385
	Playgrounds Improvements (townwide)	Town Mgr		10	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
	Facilities Master Plan Phase II	Town Mgr		20				\$100,000	\$250,000	\$350,000
	Intergrated Public Safety Reporting System	Fire		5	\$208,875					\$208,875
Replace Ambulance	Fire		10	\$268,197				\$300,000	\$568,197	
Amkus Tools	Fire		5			\$110,000			\$110,000	
Replace Engine # 1	Fire		10				\$660,000		\$660,000	
					\$7,732,757	\$4,892,500	\$6,915,500	\$2,420,000	\$2,930,000	\$24,890,757
				Total 5 yrs	\$2,108,675	\$1,585,000	\$2,010,000	\$1,535,000	\$1,955,000	\$9,193,675
				Other Funding Source (Chp 90)	-\$820,000	-\$820,000	-\$820,000	-\$820,000	-\$820,000	-\$4,100,000
				excess bond proceeds	\$0	\$0	\$0	\$0	\$0	\$0
				Free Cash	-\$114,800	-\$150,000	-\$150,000	-\$150,000	-\$150,000	-\$714,800
				net 5yr borrowing	\$1,173,875	\$615,000	\$1,040,000	\$565,000	\$985,000	\$4,378,875
				Total 10 yrs	\$1,003,197	\$1,350,000	\$589,500	\$785,000	\$725,000	\$4,452,697
				Other Funding Source Capital Stab	-\$100,000	-\$750,000	\$0	\$0	\$0	-\$850,000
				Other Funding Source - CPA Funding	\$0	\$0	\$0	\$0	\$0	\$0
				net 10yr borrowing	\$903,197	\$600,000	\$589,500	\$785,000	\$725,000	\$3,602,697
				Total 20 yrs	\$4,620,885	\$1,957,500	\$4,316,000	\$100,000	\$250,000	\$11,244,385
				Other Funding Source CPA Funding	\$0	\$0	\$0	\$0	\$0	\$0
				net 20yr borrowing	\$4,620,885	\$1,957,500	\$4,316,000	\$100,000	\$250,000	\$11,244,385
				Net Borrowing	\$6,697,957	\$3,172,500	\$5,945,500	\$1,450,000	\$1,960,000	\$19,225,957
A	Yr Voting Machines & Replc Mini Van									
B	Yr 1 Construction cost to Public Works offices and garage, architect services for renovations of School Classrooms									
	Yr 2 Construction cost for renovations to school classrooms, architect services for expansion of Senior Center									
	Yr 3 Construction cost for expansion of Senior Center									

General Fund Capital Project Requests by Criteria Pts. and by Requested Funding Years (FY17-FY21)

Project Name	Division	Div. Priority	Year 1	Year 2	Year 3	Year 4	Year 5	Total
			FY17	FY18	FY19	FY20	FY21	
Municipal IT (FY17-FY21)	Information Tech	2	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
VOIP Phone System Upgrade	Information Tech	3					\$100,000	\$100,000
Voting Equipment Replacement	Town Clerk	1	\$62,800					\$62,800
Building Maintenance (FY17-FY21)	Facilities	1	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$1,125,000
Sport-Turf Field Surface Replacement	School	1	\$100,000	\$750,000				\$850,000
School IT (FY17-FY21)	School	2	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Atkinson Elementary Roof	School	3			\$464,500			\$464,500
District Wide Paving	School	6					\$200,000	\$200,000
School Drainage	School	7					\$100,000	\$100,000
Roadway Improvements (FY17-FY21)	Public Works	1	\$1,230,000	\$1,210,000	\$1,230,000	\$1,160,000	\$1,280,000	\$6,110,000
Sidewalks Reconstruction (FY17-FY21)	Public Works	2	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
Equipment - Sweeper	Public Works	3	\$197,000					\$197,000
Water & High St Intersection & Streetscape Improv	Public Works	4	\$350,000	\$475,000				\$825,000
6 Wheel Dump Truck	Public Works	5	\$185,000		\$200,000		\$200,000	\$585,000
Backhoe	Public Works	7			\$95,000			\$95,000
Replacement Mini Bus	Senior Center	1	\$52,000					\$52,000
Facilities Master Plan	Town Mgr	1	\$4,620,885	\$1,957,500	\$4,316,000			\$10,894,385
Playgrounds Improvements (townwide)	Town Mgr	2	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Facilities Master Plan Phase II	Town Mgr	3				\$100,000	\$250,000	\$350,000
Integrated Public Safety Reporting System	Fire	1	\$208,875					\$208,875
Replace Ambulance	Fire	2	\$268,197				\$300,000	\$568,197
Amkus Tools	Fire	3			\$110,000			\$110,000
Replace Engine # 1	Fire	4				\$660,000		\$660,000
Forestry Vehicle	Fire	5					\$158,000	\$158,000
Total			\$7,774,757	\$4,892,500	\$6,915,500	\$2,420,000	\$3,088,000	\$25,090,757

Debt Service/Net Revenue Ratio Summary.G.F. Capital Budget, (FY17-FY21)

Revenue Summary	Actual FY 2013	Actual FY 2014	Actual FY 2015	Adopted FY 2016	Projected FY 2017	Projected FY 2018	Projected FY 2019	Projected FY 2020	Projected FY 2021
Property Taxes (Net of Debt Exclusions)	58,848,875	60,854,551	62,564,594	65,830,264	68,076,021	70,377,921	72,737,369	75,155,803	77,634,698
Debt Exclusions	1,771,640	1,742,045	1,705,849	1,867,462	1,853,590	1,842,680	590,633	345,549	334,899
Tax Title	174,857	608,698	348,217	0	0	0	0	0	0
Local Receipts	9,447,577	10,197,117	10,115,434	9,068,334	9,550,111	9,836,614	10,131,713	10,435,664	10,748,734
State Aid (Cherry Sheet)	9,076,332	9,435,925	9,624,631	9,595,512	10,329,129	10,587,357	10,852,041	11,123,342	11,401,426
State Aid (MSBA)	412,131	412,131	412,131	0	0	0	0	0	0
Interfund Operating Transfers	1,526,297	1,543,374	1,576,648	1,551,391	1,588,365	1,628,074	1,668,775	1,710,495	1,753,257
Reserves and One Time Revenues	473,063	396,868	493,748	0	0	0	0	0	0
Free Cash	1,117,710	0	838,000	0	0	0	0	0	0
					5.31%				
Total All Revenue	82,848,482	85,190,708	87,679,252	87,912,962	91,397,215	94,272,647	95,980,532	98,770,854	101,873,015
General Fund Obligation Debt Service	6,333,589	6,331,415	5,561,874	5,858,518	5,576,151	5,234,325	3,525,435	2,807,013	2,599,722
P/Y Authorized CIP Unissued	0	0	0	0	632,239	617,080	600,860	584,640	568,420
Less GLSD Credit for Police Station Debt	-138,322	-141,336	-143,103	-144,892	-146,703	-148,537	-150,394	-152,273	-154,177
Less School Comm. Programs to Pre-School Debt	-64,200	62,700	-61,350	0	0	0	0	0	0
Less Esco Project Debt Service	0	0	0	0	0	0	0	0	0
Subtotal	6,131,067	6,252,779	5,357,421	5,713,626	6,061,687	5,702,868	3,975,901	3,239,380	3,013,965
New Excluded CIP	0	0	0	0	0	0	0	0	0
New Non- Excluded CIP	0	0	0	0	0	872,524	1,276,592	2,004,650	2,203,352
Total Debt Service	6,131,067	6,252,779	5,357,421	5,713,626	6,061,687	6,575,392	5,252,494	5,244,030	5,217,317
Less:									
Debt Exclusions (Existing and Proposed)	1,840,566	1,810,971	1,774,775	1,936,388	1,922,516	1,911,606	659,559	414,475	403,825
-Excluded SBA Reimbursement	0	0	0	0	0	0	0	0	0
- Debt Exclusion Adjustment	0	0	0	0	0	0	0	0	0
- SBA State Reimb - interest on H/S	-68,926	-68,926	-68,926	-68,926	-68,926	-68,926	-68,926	-68,926	-68,926
- Bond Premium									
Net Exclusions	1,771,640	1,742,045	1,705,849	1,867,462	1,853,590	1,842,680	590,633	345,549	334,899
Total Debt Service	6,131,067	6,252,779	5,357,421	5,713,626	6,061,687	6,575,392	5,252,494	5,244,030	5,217,317
Less: Debt Exclusions	-1,840,566	-1,810,971	-1,774,775	-1,936,388	-1,922,516	-1,911,606	-659,559	-414,475	-403,825
Net Debt Service (Non Excluded Debt)-less credits glsd & Sch	4,290,501	4,441,808	3,582,646	3,777,239	4,139,171	4,663,786	4,592,934	4,829,555	4,813,492
Increase of Net Debt Service over PY	353,967	151,307	-859,162	194,593	361,933	524,615	-70,852	236,621	-16,063
Estimated Total Revenue	82,848,482	85,190,708	87,679,252	87,912,962	91,397,215	94,272,647	95,980,532	98,770,854	101,873,015
Less:									
Reserves and One Time Revenues	-473,063	-396,868	-493,748	0	0	0	0	0	0
Debt Exclusions	-1,840,566	-1,810,971	-1,774,775	-1,936,388	-1,922,516	-1,911,606	-659,559	-414,475	-403,825
Free Cash	-1,117,710	0	-838,000	0	0	0	0	0	0
Non-excluded SBA	-412,131	-412,131	-412,131	0	0	0	0	0	0
Net Revenue	79,005,012	82,570,739	84,160,598	85,976,575	89,474,700	92,361,041	95,320,973	98,356,379	101,469,190
Net Debt Ratio	5.43%	5.38%	4.26%	4.39%	4.63%	5.05%	4.82%	4.91%	4.74%

Projected Debt Service for New G.F.Capital Projects, (FY17- FY21)

		Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY21	Year 6 FY22
Gross Funding Recommendation		\$7,732,757	\$4,892,500	\$6,915,500	\$2,420,000	\$2,930,000	
Total Prior Year Authorizations		\$0	\$0	\$0	\$0	\$0	
Total State Grant- Chapter 90 Funds		-\$820,000	-\$820,000	-\$820,000	-\$820,000	-\$820,000	
Total CPA Funds		\$0	\$0	\$0	\$0	\$0	
Free Cash		-\$114,800	-\$150,000	-\$150,000	-\$150,000	-\$150,000	
Insurance Proceeds		\$0	\$0	\$0	\$0	\$0	
Special Revenue Funds CPA Funding		\$0	\$0	\$0	\$0	\$0	
Capital Staiblization Fund		-\$100,000	-\$750,000	\$0	\$0	\$0	
Excess Bond Proceeds 5 yrs		\$0	\$0	\$0	\$0	\$0	
Excess Bond Proceeds 10 yrs		\$903,197	\$600,000	\$589,500	\$785,000	\$725,000	
Net Borrowing Recommendation		\$7,601,154	\$3,922,500	\$5,945,500	\$1,450,000	\$1,960,000	
Ten (5) Year Borrowing Interest	5 4.00%	\$1,173,875	\$615,000	\$1,040,000	\$565,000	\$985,000	
Ten (10) Year Borrowing Interest	10 4.25%	\$903,197	\$600,000	\$589,500	\$785,000	\$725,000	
Twenty (20) Year Borrowing Interest	20 5.00%	\$4,620,885	\$1,957,500	\$4,316,000	\$100,000	\$250,000	
Twenty (20) Year Borrowing - Prop 2 1/2 Excl. Interest	20 5.00%	\$0	\$0	\$0	\$0	\$0	
Total Debt		\$6,697,957	\$3,172,500	\$5,945,500	\$1,450,000	\$1,960,000	

Ten (5) Year Debt Schedule

Year 1 Debt Service	Principial		\$234,775	\$234,775	\$234,775	\$234,775	\$234,775
	Interest		\$46,955	\$37,564	\$28,173	\$18,782	\$9,391
	Total		\$281,730	\$272,339	\$262,948	\$253,557	\$244,166
Year 2 Debt Service	Principial			\$123,000	\$123,000	\$123,000	\$123,000
	Interest			\$24,600	\$19,680	\$14,760	\$9,840
	Total			\$147,600	\$142,680	\$137,760	\$132,840
Year 3 Debt Service	Principial				\$208,000	\$208,000	\$208,000
	Interest				\$41,600	\$33,280	\$24,960
	Total				\$249,600	\$241,280	\$232,960
Year 4 Debt Service	Principial					\$113,000	\$113,000
	Interest					\$22,600	\$18,080
	Total					\$135,600	\$131,080
Year 5 Debt Service	Principial						\$197,000
	Interest						\$39,400

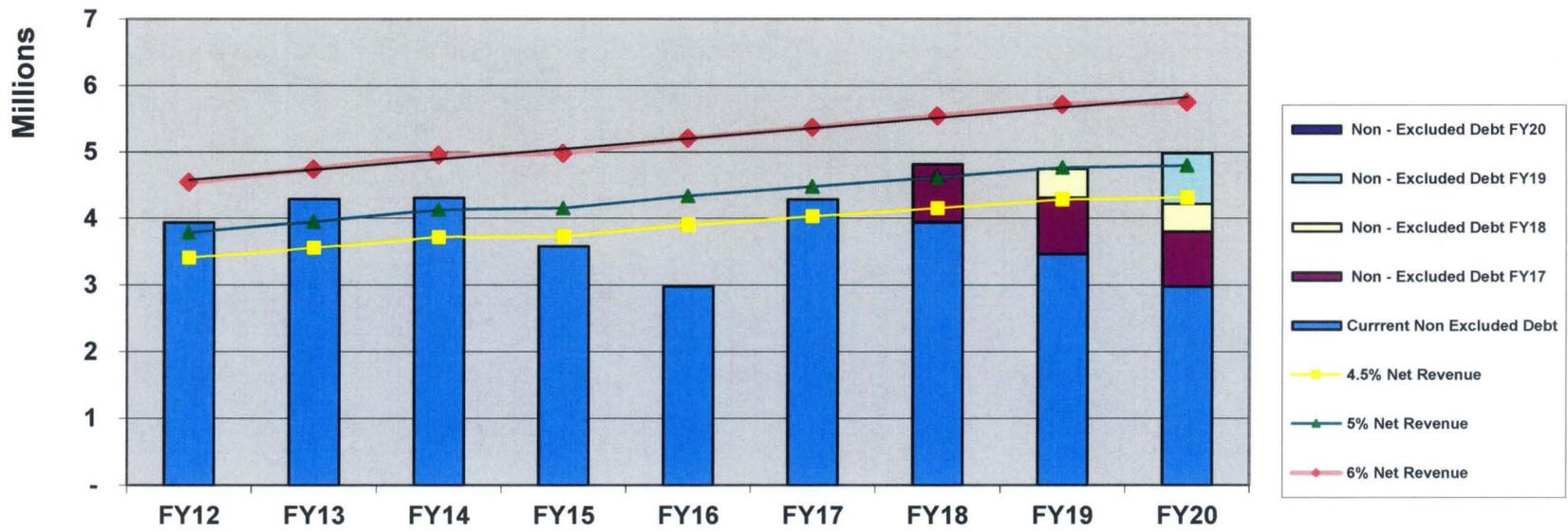
Projected Debt Service for New G.F.Capital Projects, (FY17- FY21)

		Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY21	Year 6 FY22
	Total						\$236,400
Total Ten (5) Year Debt Service			\$281,730	\$419,939	\$655,228	\$768,197	\$977,446
Ten (10) Year Debt Schedule							
Year 1 Debt Service	Principial		\$90,320	\$90,320	\$90,320	\$90,320	\$90,320
	Interest		\$38,386	\$34,547	\$30,709	\$26,870	\$23,032
	Total		\$128,706	\$124,867	\$121,028	\$117,190	\$113,351
Year 2 Debt Service	Principial			\$60,000	\$60,000	\$60,000	\$60,000
	Interest			\$25,500	\$22,950	\$20,400	\$17,850
	Total			\$85,500	\$82,950	\$80,400	\$77,850
Year 3 Debt Service	Principial				\$58,950	\$58,950	\$58,950
	Interest				\$25,054	\$22,548	\$20,043
	Total				\$84,004	\$81,498	\$78,993
Year 4 Debt Service	Principial					\$78,500	\$78,500
	Interest					\$33,363	\$30,026
	Total					\$111,863	\$108,526
Year 5 Debt Service	Principial						\$72,500
	Interest						\$30,813
	Total						\$103,313
Total Ten (10) Year Debt Service			\$128,706	\$210,367	\$287,982	\$390,951	\$482,033
Twenty (20) Year Debt Schedule							
Year 1 Debt Service	Principial		\$231,044	\$231,044	\$231,044	\$231,044	\$231,044
	Interest		\$231,044	\$219,492	\$207,940	\$196,388	\$184,835
	Total		\$462,089	\$450,536	\$438,984	\$427,432	\$415,880
Year 2 Debt Service	Principial			\$97,875	\$97,875	\$97,875	\$97,875
	Interest			\$97,875	\$92,981	\$88,088	\$83,194
	Total			\$195,750	\$190,856	\$185,963	\$181,069
Year 3 Debt Service	Principial				\$215,800	\$215,800	\$215,800
	Interest				\$215,800	\$205,010	\$194,220
	Total				\$431,600	\$420,810	\$410,020
Year 4 Debt Service	Principial					\$5,000	\$5,000
	Interest					\$5,000	\$4,750
	Total					\$10,000	\$9,750
Year 5 Debt Service	Principial						\$12,500
	Interest						\$12,500

Projected Debt Service for New G.F.Capital Projects, (FY17- FY21)

		Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY21	Year 6 FY22
	Total						\$25,000
Total Twenty (20) Year Debt Service			\$462,089	\$646,286	\$1,061,440	\$1,044,204	\$1,041,718
Net Total Non-Excluded Debt Service			\$872,524	\$1,276,592	\$2,004,650	\$2,203,352	\$2,501,197
Twenty (20) Year Debt- Prop 2 1/2 Excl.Schedule							
Year 1 Debt Service	Principial		\$0	\$0	\$0	\$0	\$0
	Interest		\$0	\$0	\$0	\$0	\$0
	Total		\$0	\$0	\$0	\$0	\$0
Year 2 Debt Service	Principial			\$0	\$0	\$0	\$0
	Interest			\$0	\$0	\$0	\$0
	Total			\$0	\$0	\$0	\$0
Year 3 Debt Service	Principial				\$0	\$0	\$0
	Interest				\$0	\$0	\$0
	Total				\$0	\$0	\$0
Year 4 Debt Service	Principial					\$0	\$0
	Interest					\$0	\$0
	Total					\$0	\$0
Year 5 Debt Service	Principial						\$0
	Interest						\$0
	Total						\$0
Total Twenty (20) Year - Prop 2 1/2 Excl. Debt Service			\$0	\$0	\$0	\$0	\$0

General Fund Non Excluded Debt % of Net Revenue



**TOWN OF NORTH ANDOVER
PROJECT REQUEST RATING SHEET
DESCRIPTION OF RATING CRITERIA AND SCALES**

CRITERIA A-OVERALL FISCAL IMPACT

Weight 4

Rationale: Limited resources for competing projects require that each project's full impact on the Town's budget be considered in rating and evaluating projects. Projects that are self-funded or have a large proportion of external funding will receive higher ratings than those that do not.

Considerations: Ratings for this factor will consider these major points:

- A. Capital cost of the project relative to all other project requests.
- B. Impact of project on Town operating costs and personnel levels.
- C. Whether project requires Town appropriations or is funded from agency, grant funds, matching funds, or generated revenue.
- D. Impact on Town tax revenue or fee revenue.
- E. Will external funding be lost should project be delayed?

Illustrative Ratings:

- 5-Project requires less than 10% Town funding.
- 4-Project requires less than 50% Town funding.
- 3-Project requires more than 50% Town funding, decreases operating costs and increases Town revenues.
- 2-Project requires more than 50% Town funding, increases operating costs and increases Town revenues.
- 1-Project requires more than 50% Town funding, decreases operating costs and decreases Town revenues.
- 0-Project requires more than 50% Town funding, increases operating costs and decreases Town revenues.

CRITERIA B-LEGAL OBLIGATIONS AND COMPLIANCE WITH MASTER PLAN

Weight: 4

Rationale: Some projects are virtually unavoidable due to court orders, federal mandates, or state laws that require their completion. In addition, projects that advance the stated goals of the Town’s Master Plan should receive higher consideration than those that don’t. This criterion evaluates both the severity of the mandate and the degree of adherence to the Town’s Master Plan.

Considerations: Ratings for this factor will consider these major points:

- A. Whether an agency is under direct court order to complete this project.
- B. Whether the project is needed to meet requirements of federal or state legislation.
- C. Whether the project advances one or more of the goals of the Town Master Plan.

Illustrative Ratings:

- 5-Agency currently under court order to take action.
- 4-Project is necessary to meet existing state and federal requirements.
- 3-Project advances more than one of the goals of the Town’s Master Plan.
- 2-Project advances one of the goals of the Town’s Master Plan.
- 1-Legislation under discussion could require project in future.
- 0-No legal or Master Plan impact or requirements.
- 1-Project requires change in state law to proceed.
- 2-Project requires change in federal law to proceed.

CRITERIA C-IMPACT ON SERVICE TO THE PUBLIC

Weight: 3

Rationale: Consideration will be given to capital projects that address health, safety, accreditation or maintenance issues as well as improved service of an agency. Service is broadly defined, as the Town’s objective to meet the health, safety or accreditation needs of the population and/or improved operations of an existing department.

Considerations: Ratings for this factor will consider these major points:

- A. Whether the service is already being provided by existing agencies.
- B. Whether the project has immediate impact on service, health, safety, accreditation or maintenance needs.
- C. Whether the project focuses on a service that is currently a “high priority” public need.

Illustrative Ratings:

- 5-Service addresses an immediate public health, safety, accreditation, or maintenance need.
- 4-Service is improved and addresses a public health, safety, accreditation, or

- maintenance need.
- 3-Service is greatly improved.
- 2-Service is improved.
- 1-Service is minimally improved and addresses a public health, safety, accreditation, or maintenance need.
- 0-Service is minimally improved.

CRITERIA D-URGENCY OF MAINTENANCE NEEDS

Weight: 3

Rationale: The Town’s most immediate goal in both capital and operating finance is to maintain current services expected by citizens, businesses, and visitors. Capital projects that are essential to maintain service, protect investment, or restore service that has been interrupted due to failure of capital assets will receive the highest rating in this criterion.

Considerations: Ratings for this factor will consider these major points:

- A. Whether service is currently interrupted.
- B. Whether the project as requested will result in full restoration of service.
- C. Whether the project is the most cost-effective method of providing or maintaining service.
- D. Where service is not currently interrupted, the likelihood that it will be in the next five years if the project is not funded.
- E. Whether costs of the project will increase (beyond inflation) if the project is delayed.
- F. Whether the agency has prepared a comprehensive maintenance/rehabilitation/replacement schedule and the project is due under that schedule.

Illustrative Ratings:

- 5-Service is currently interrupted and the project will restore service in the most cost-effective manner possible.
- 4-Service is likely to be disrupted in the five-year horizon if project is not funded.
- 3-Project is necessary to maintain orderly schedule for maintenance and replacement.
- 2-Cost of Project will increase in future (beyond inflation) if it is delayed at this time.
- 1-Minor risk that cost will rise or service will be interrupted if project is not funded.
- 0-There is no financial or service risk of delaying or not funding the project (e.g., the project is new and has no impact on current service).

CRITERIA E – PRIOR PHASES

Weight: 2

Rationale: Some projects need to be developed in phases due to their complexity of size. In such cases, the need has already been established by prior commitment of funds to existing projects. Therefore, continuation of the project will be given higher consideration:

Considerations: Ratings for this factor will consider these major points:

- A. Whether the project has received prior funds.
- B. Whether the project requires additional funding to be operational.

Illustrative Ratings:

- 5-All but the final phase has been fully funded.
- 4-Multiple phases have been fully funded.
- 3-Multiple phases have been partially funded.
- 2-First phases has been fully funded.
- 1-First phases has been partially funded.
- 0-No prior phases have been funded or partially funded.

CRITERIA F – DEPARTMENTAL PRIORITY

Weight: 2

Rationale: Divisions are expected to provide an indication of which projects are most important to their mission.

Considerations: Ratings for this factor will consider these major points:

- A. Departmental ranking of each individual project.
- B. The total number of project requests that are tuned in by entities.

Illustrative Ratings:

- 5-Top 20% of highest departmentally ranked project requests.
- 4-20% of next highest departmentally ranked project requests.
- 3-20% of next highest departmentally ranked project requests.
- 2-20% of next highest departmentally ranked project requests.
- 1-Bottom 20% of all project requests.

GENERAL FUND CAPITAL BUDGET CRITERIA POINT SCHEDULE

Total	Project	Department	FY 2017	EstTotalCost	Criteria						Score					
					A	B	C	D	E	F	A	B	C	D	E	F
60	Roadway Improvements FY 17 - FY 21	DPW Street & Sidewalks	\$ 1,230,000.00	\$ 6,110,000.00	4	2	3	3	4	5	16	8	9	9	8	10
59	Voting Equipment Replacement	Town Clerk	\$ 62,800.00	\$ 62,800.00	3	4	4	3	0	5	12	16	12	9	0	10
57	Facility Master Plan Implementation (FY17-FY19)	Selectmen/Manager	\$ 4,620,885.00	\$ 10,894,385.00	3	3	2	3	4	5	12	12	6	9	8	10
54	Sidewalk Reconstruction FY 17 - FY 21	DPW Street & Sidewalks	\$ 75,000.00	\$ 375,000.00	3	2	3	3	4	4	12	8	9	9	8	8
48	Building Maintenance (FY17-FY21)	Facilities - Municipal	\$ 225,000.00	\$ 1,125,000.00	3	0	3	3	4	5	12	0	9	9	8	10
47	District-Wide Paving Issues	School Department	\$ -	\$ 200,000.00	1	2	4	3	2	5	4	8	12	9	4	10
46	Municipal IT (FY17-FY21)	Information Technology	\$ 50,000.00	\$ 250,000.00	3	0	2	4	4	4	12	0	6	12	8	8
46	School IT (FY17-FY21)	IT - Schools	\$ 100,000.00	\$ 500,000.00	3	0	2	4	4	4	12	0	6	12	8	8
43	Sport-Turf Field Surface Replacement	School Department	\$ 100,000.00	\$ 850,000.00	3	0	4	3	0	5	12	0	12	9	0	10
41	Ambulance Replacement	Fire	\$ 268,197.00	\$ 568,197.00	3	0	4	3	0	4	12	0	12	9	0	8
41	Playgrounds Improvements (townwide)	Selectmen/Manager	\$ 50,000.00	\$ 250,000.00	3	0	4	3	0	4	12	0	12	9	0	8
40	Integrated Public Safety Reporting System	Fire	\$ 208,875.00	\$ 208,875.00	3	0	3	3	0	5	12	0	9	9	0	10
40	Replacement vehicle	Senior Center	\$ 52,000.00	\$ 52,000.00	3	0	3	3	0	5	12	0	9	9	0	10
33	Equipment- Sweeper	DPW Fleet Maint	\$ 185,000.00	\$ 185,000.00	3	0	2	3	0	3	12	0	6	9	0	6
29	Equipment - 6 Wheel Dump Truck	DPW Fleet Maint	\$ 180,000.00	\$ 580,000.00	3	0	2	3	0	1	12	0	6	9	0	2
23	Water & High Street Light, Intersection, Road, Streetscape Imp FY 17 - FY21	DPW Street & Sidewalks	\$ 325,000.00	\$ 800,000.00	1	0	2	3	0	2	4	0	6	9	0	4
0	Atkinson Elementary Roof	School Department	\$ -	\$ 464,500.00	0	0	0	0	0	0	0	0	0	0	0	0
0	School Drainage	School Department	\$ -	\$ 100,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	Purchase new Amkus tools	Fire	\$ -	\$ 110,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	Equipment- Backhoe	DPW Fleet Maint	\$ -	\$ 95,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	Facilities Master Plan II	Selectmen/Manager	\$ -	\$ 350,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	Replace Engine # 1	Fire	\$ -	\$ 660,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	VOIP Phone System Upgrade	Information Technology	\$ -	\$ 100,000.00	0	0	0	0	0	0	0	0	0	0	0	0
Total General Fund			\$ 7,732,757.00	\$ 24,890,757.00												



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Information Technology **Priority:** 2
Department: Information Technology **Type:** Replacement
Project: Municipal IT (FY17-FY21) **Cost Basis:** Previous Purchase
Project Category: Infrastructure **Asset Class:** Class 1
Project Type: Vehicle/Equipment (including "General IT")

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$250,000.00

Funding Source	Funding Amount	Submitted by:
General Fund	\$25,000.00	Chris Mclure
Other	\$25,000.00	Title:
Total	\$50,000.00	Date: 10/27/2015

Description

This updates the current annual IT capital plan.

To be split funded from General fund and PEG capital and operating funds.

Continued upgrades, maintenance and support of town wide fiber network, switches, routers, firewalls, wifi management and other related items.

Continued investment in upgrading from 1-10gb uplinks. Replacement plan for core and network switches and firewalls.

Continued investment in improving wifi management infrastructure.

Justification

Our network is the most critical component of an efficient, secure and successful technology plan.

The network connects us to each other and the cloud to allow us to work while keeping out security threats.

As we rely more and more on the cloud and centralized resources, the network allows us to realize the full potential of our investments.

Description of item to be replaced

Similar to the workstation and server replacement plans, network components (switches, routers, firewalls...) are evaluated and replaced on a rolling schedule.

Items are replaced due to obsolescence or to facilitate needed performance upgrades (i.e faster internal or internet speeds.)

In some cases, the fiber network itself may be expanded or modified to meet the current town needs. In FY2016, for example, Stevens Estate and the Bradford tower were added to the fiber network along with the new fire station.

Schedule for completion of project

Routine Network upgrades are generally scheduled for July and August. Project based upgrades are scheduled according to the project.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

The cisco smartnet budget is currently adequate to support

equipment as it enters and leaves our network.



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Information Technology
Department: Information Technology
Project: VOIP Phone System Upgrade
Project Category: Infrastructure
Project Type: Vehicle/Equipment (including "General IT")

Priority: 3
Type: Replacement
Cost Basis: Previous Purchase
Asset Class: Select One

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$0.00	\$100,000.00	\$100,000.00

Funding Source	Funding Amount	Submitted by: Chris Mclure
General Fund	\$100,000.00	Title:
Total	\$100,000.00	Date: 10/27/2015

Description

Our current phone system is in great shape, but will reach end of life by FY2021. Over the next 5 years, we will evaluate upgrade and cost models, but should plan for an upgrade or replacement.

Based on similar projects in the past, the total cost should not exceed \$100,00 including hardware, software and professional services.

Justification

5 year plan to identify upgrade path when phone system reaches end of life.

Description of item to be replaced

Current cisco unity and call manager phone system and voicemail. Current desk phones as needed.

Schedule for completion of project

Some time in FY2021 or beyond.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

Operating costs will remain roughly the same in the operating budget.



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Administration	Priority: 1
Department: Town Clerk	Type: Replacement
Project: Voting Equipment Replacement	Cost Basis: Vendor Quote
Project Category: Equip (non-Rolling)	Asset Class: Class 1
Project Type: Vehicle/Equipment (including "General IT")	

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$62,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$62,800.00

Funding Source	Funding Amount	Submitted by: Joyce Bradshaw
General Fund	\$62,800.00	Title: Town Clerk
Total	\$62,800.00	Date: 10/27/2015

Description

This project seeks to replace the existing voting machines which have been used since 1995. The Image Cast Optical Scan Tabulator has been certified by the Massachusetts Secretary of the Commonwealth. The Optical Scan tabulator is a trustworthy replacement of our existing Accu-vote machines. LHS is an excellent vendor as is easily accessible for maintenance and service. This is a resubmitted request from FY16.

Justification

After 20 years of use I feel we need to replace existing equipment to maintain excellent voting performance. We need to have reliable equipment with almost 19,000 voters. The use of the machines when authorized and able to be purchased would be used for the next scheduled election after CIP approval and purchase. Demonstration of the machine reinforced ease of use and similarity to existing Accu-vote machines.

Description of item to be replaced

8 ICP Tabulators - Precincts 1-8 Spare Tabulator (Currently 9 Accuvote Machines)

Election Reporting Software - Results Reporting RTR Software Package to provide results at polls directly from voting machines. (Currently GEMS software system for end of day tallying)

Schedule for completion of project

Approval of this request when appropriate in the CIP would be complete when funding is approved and available for purchase.

Estimated value of replaced item: \$4,000.00

NET Estimated Annual Impact: \$780.00

Explanation

Annual RTR Software License - Not necessary on current machines.



October 6, 2015

10 Manor Parkway Unit B Salem, NH 03079
Toll Free: 888-547-8683 Fax: 603-212-0028

Joyce Bradshaw
Town Clerk
Town of North Andover
120 Main St.
North Andover, MA 01845

Dear Ms. Bradshaw,

Thank you for allowing LHS Associates, Inc. the opportunity to provide you with a quote for new Digital Scan Vote Tabulators. I am pleased to present the following quote for the purchase of eight (8) ImageCast Precinct tabulator bundles, one (1) spare ImageCast Precinct tabulator and election reporting software. If you have any further questions please contact me directly.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Silvestro". The signature is fluid and cursive.

Jeff Silvestro
President
LHS Associates, Inc.



Town of North Andover, Massachusetts
Purchase Proposal Quote
 Submitted by LHS Associates, Inc.
 October 6, 2015



<u>Quantity</u>	<u>Description</u>	<u>Price</u>
HARDWARE		
ICP Tabulator Bundle includes:		
8	<ul style="list-style-type: none"> ✓ One (1) Tabulator with a padded carrying case, two (2) memory cards, one (1) power cord, one (1) key set, two (2) thermal paper rolls, one (1) dozen sharpie markers, six (6) security seals and an internal battery back up. ✓ One (1) Plastic Ballot Box with three (3) compartments, casters and a built in power supply. Ballot boxes are able to nest for ease of storage. 	\$54,000.00
1	Spare ICP Tabulator includes: <ul style="list-style-type: none"> ✓ One (1) Tabulator with a padded carrying case, two (2) memory cards, one (1) power cord, one (1) key set, two (2) thermal paper rolls, one (1) dozen sharpie markers, six (6) security seals and an internal battery back up. 	\$5,000.00
ELECTION REPORTING SOFTWARE		
1	Results, Tally & Reporting (RTR) Software Package	\$7,800.00
SERVICES		
Two Year Hardware & Software Warranty		
	<ul style="list-style-type: none"> ✓ All parts, labor, travel and shipping costs included. ✓ Unlimited access to the LHS Help Desk for Pre Election, Election Day and Post Election questions, concerns or troubleshooting. ✓ An annual maintenance visit to the Town of North Andover to inspect, calibrate and service all equipment. ✓ Any necessary repairs will take place in the Town of North Andover. If onsite repair is not possible loaner equipment will be left in the Town's possession until all equipment can be repaired and returned. ✓ An employee of LHS, not a subcontractor, will conduct all maintenance work. ✓ A locally based service center with parts and technicians trained in repairing and servicing voting equipment. 	<i>Included</i>
	Documentation, including but not limited to:	
	<ul style="list-style-type: none"> ✓ One (1) Pre Election Testing Guide, thirteen (13) Poll Worker Training Guides and one (1) Instruction to Voters Poster. 	<i>Included</i>
	Two training sessions exclusively for the Town of North Andover.	
	<ul style="list-style-type: none"> ✓ Two hours of training for Town Clerk and office staff. This training will cover basic use of the machine, pre election testing and Election Day procedures. ✓ Two hours of training for Poll workers. This training will cover Election Day procedures and basic troubleshooting. ✓ Both trainings will be conducted in the Town of North Andover and scheduled by the Town Clerk. 	<i>Included</i>
	On site coverage by an employee of LHS for the first election.	
	<ul style="list-style-type: none"> ✓ A member of the LHS team will work with the Town Clerk from one (1) hour prior to opening the polls until two (2) hours after the polls close on Election Day. ✓ The representative will NOT be a subcontracted employee from another company. ✓ The representative will be present during the Poll Worker Training session so all Poll Workers will be familiar with and have had interaction with the employee prior to the Election. 	<i>Included</i>
	On site acceptance testing of all equipment.	<i>Included</i>
SHIPPING & DISCOUNTS		
	Shipping & Handling	<i>Included</i>
	Tabulator Trade-In Credit	(\$4,000.00)
TOTAL PURCHASE		\$62,800.00
ANNUAL POST WARRANTY FEES		
8	Annual Post Warranty Maintenance Fee <ul style="list-style-type: none"> ✓ LHS Tier III Coverage (Annual Maintenance) 	\$1,800.00
1	Annual RTR Software License <ul style="list-style-type: none"> ✓ Software License 	\$780.00
TOTAL ANNUAL POST WARRANTY FEES		\$2,580.00



CAPITAL COMMITMENT TRACKING SYSTEM

Division: Facilities **Priority:** 0
Department: Facilities - Municipal **Type:** Replacement
Project: Building Maintenance (FY17-FY21) **Cost Basis:** Previous Purchase
Project Category: Building **Asset Class:** Class 1
Project Type: Building Maintainance

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$225,000.00	\$225,000.00	\$225,000.00	\$225,000.00	\$225,000.00	\$1,125,000.00

Funding Source	Funding Amount	Submitted by: Steve Foster
General Fund	\$225,000.00	Title: facilities director
Total	\$225,000.00	Date: 10/26/2015

Description	Justification
annual funding of building capital needs account	replacement of capital assets which have reached their end of life expectancy

Description of item to be replaced	Schedule for completion of project
capital assets to be replaced include; boilers & mechanical eqt. roofs building system components (eg: fire alarm panels, hot water heaters,etc.)	replace during FY

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

CIP			
Facilities Capital Improvement			
FY 2017			
item	\$	description	justification
<u>BUILDING ENVELOPE:</u>			
<u>Roofing:</u>			
Youth Center	\$7,000	entry roof replacement	ice damage winter 2015. damaged shingles. Water intrusion
Sargent School	\$20,000	library roof repair/replacement	IRMA roof replacement. Remove: pavers,filter fabric. New membrane
Franklin School	\$10,000	roof-->wall flashing repairs	loose wall-->roof flashing
Kittredge	\$10,000	roof seam repairs	water intrusion sept. rainstorm
Thomson	\$23,000	EPDM flat roof repair	membrane bridging at parapet walls
Library	\$110,000	roof replacement	replace failed flat roof system & wall flashing. See GALE report
<u>Cladding:</u>			
Youth Center	\$15,000	wood siding & trim repairs	water intrusion at window trim, broken/cracked siding
<u>STRUCTURAL:</u>			
NAHS	\$20,000	east main street entry canopy roof: repair clevis hanger	structural report McBrie
<u>SYSTEMS:</u>			
<u>Emergency Lighting</u>			
Atkinson School	\$10,000	new battery powered emergency lighting system	generator in failure & will not be replaced
TOTAL	\$225,000		



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Education **Priority:** 1
Department: School Department **Type:** Replacement
Project: Sport-Turf Field Surface Replacement **Cost Basis:** Arct/Eng
Project Category: Land **Asset Class:** Select One
Project Type:

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$100,000.00	\$750,000.00	\$0.00	\$0.00	\$0.00	\$850,000.00

Funding Source	Funding Amount	Submitted by: Jim Mealey
General Fund	\$850,000.00	Title: Assistant Superintendent for Finance and Operations
Total	\$850,000.00	Date: 10/20/2015

Description

Replacement of the surface layer of the two sport-turf fields at the North Andover High School.

Justification

These surfaces are part of the original construction of the field system completed in 2004. Useful life was projected from 8 to 10 years. The fields have been well-maintained and do not yet exhibit any degradation, so we anticipate we will not have to replace until FY2017 or FY2018. Estimates vary on the cost of replacement, but average at this time \$750,000. Engineering, bid specification, and construction management would add another \$100,000.

Description of item to be replaced

The top surface of these fields consist of a synthetic grass and rubber modules that is rolled out in sections and fit together to form the playing surface.

Estimate based on conversation with Bill Seymour from Gale Associates, the original engineer. Replacements are running at \$4.50 per sq. ft. Our total square footage is 188,145 sq. ft.

Schedule for completion of project

Engineering design and bid specifications would be developed during January 2017. Invitation for Bids would go out early in 2017, with selection of the vendor by June, 2017. Work would begin July 1, 2017 and be completed by September 1, 2017.

Estimated value of replaced item: \$850,000.00

NET Estimated Annual Impact: \$0.00

Explanation

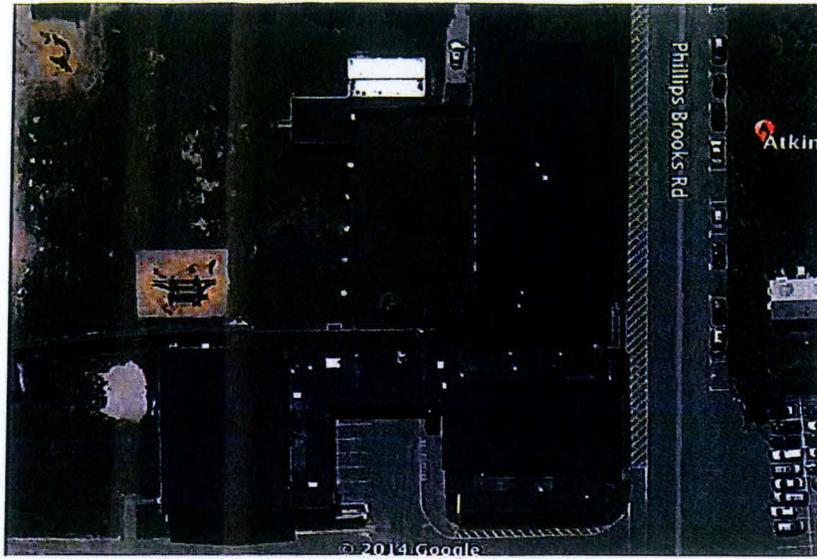
This is a replacement item, so would result in no change in annual costs.



Facility Summary

Client: Town of North Andover

Facility: Atkinson School



Facility Data

Address 1 111 Phillips Brooks Rd

Address 2 -

City North Andover

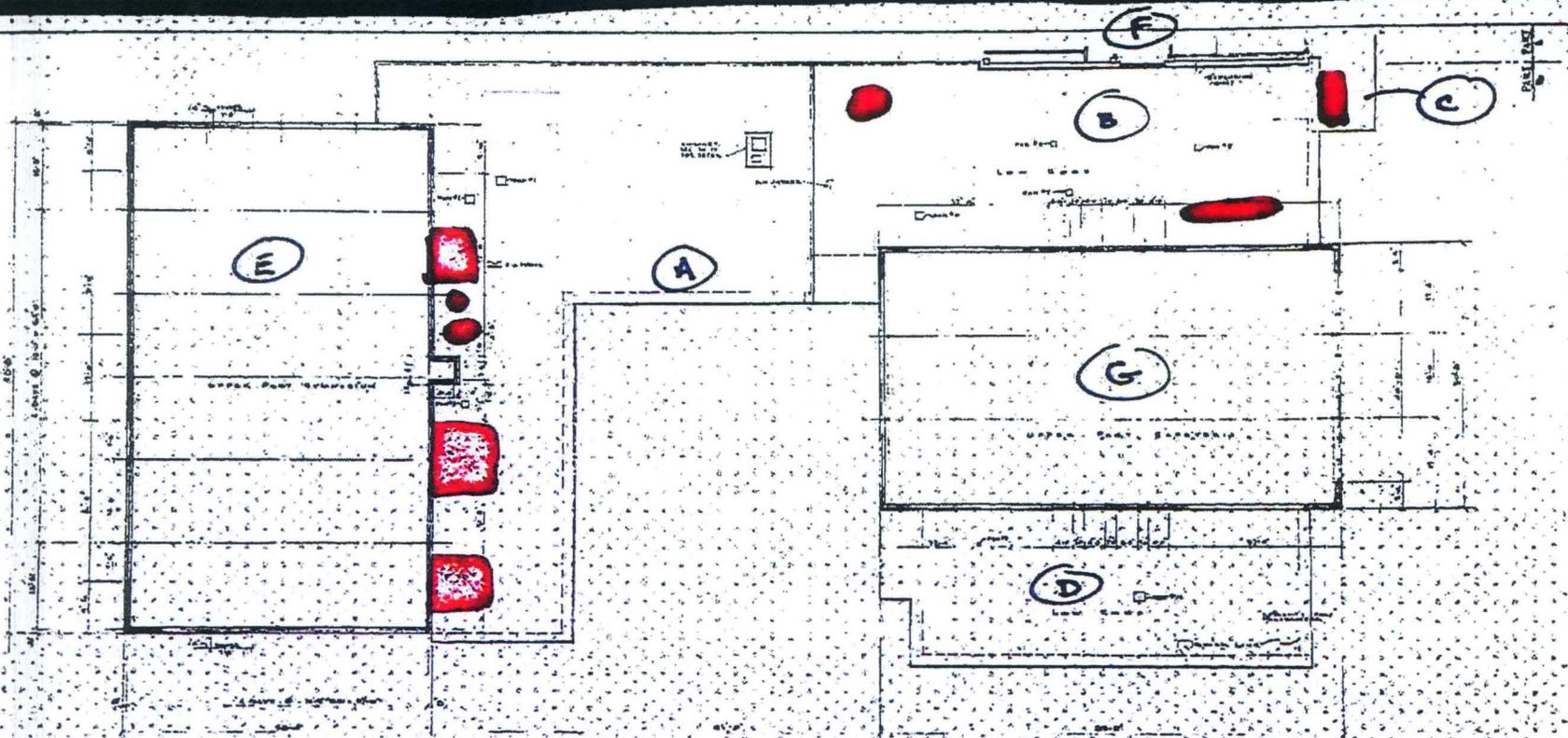
Massachusetts

01845

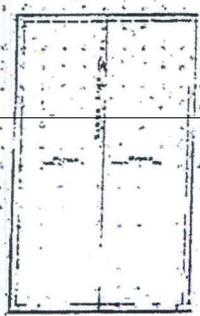
Type of Facility School

Asset Information

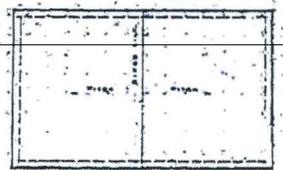
Name	Date Installed	Square Footage	Roof Access
A, B, C & D	1990	12,000	Ladder Needed
E, F & G	1990	25,000	Ladder Needed



LOCKER ROOM AND LOW ROOF PLAN

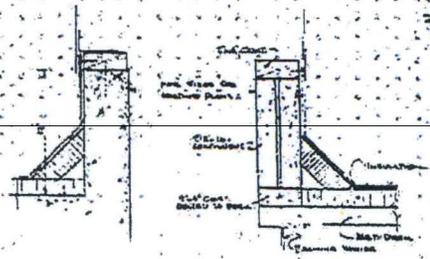


GYMNASIUM



CAFETERIA

■ = wet insulation ON CONG ROOF UP DETAILS FOR ROOF FANS ON METAL DECK



Atkinson School

ROOF PLANS

UPPER ELEMENTARY SCHOOL BUILDING NORTH ANDOVER, MASSACHUSETTS	
CLARENCE CHASE BROWN & PARTNER ARCHITECTS 177 STATE STREET	
DATE	ROOF PLANS SECTION B
SCALE	1" = 12'-0"



Construction Details

Client: Town of North Andover

Facility: Atkinson School

Roof Section: A, B, C & D

Information

Year Installed	1990	Square Footage	12,000
Slope Dimension	-	Roof Height	-
Roof Access	Ladder Needed	System Type	EPDM





Photo Report

Client: Town of North Andover

Facility: Atkinson School

Report Date: 09/27/2012

Roof Section: A, B, C & D



Photo 1
Extensive ponding throughout



Photo 2
Ponding

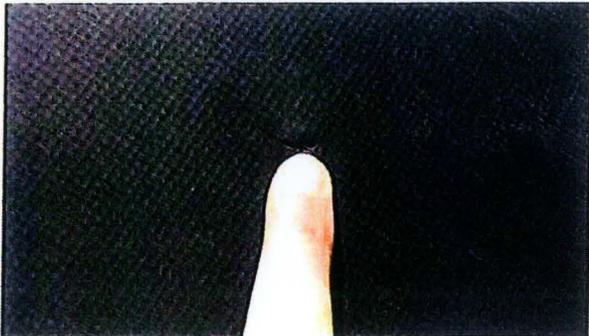


Photo 3
Puncture



Photo 4

Open condition at pipe boot



Photo 5

Open condition at fan curb

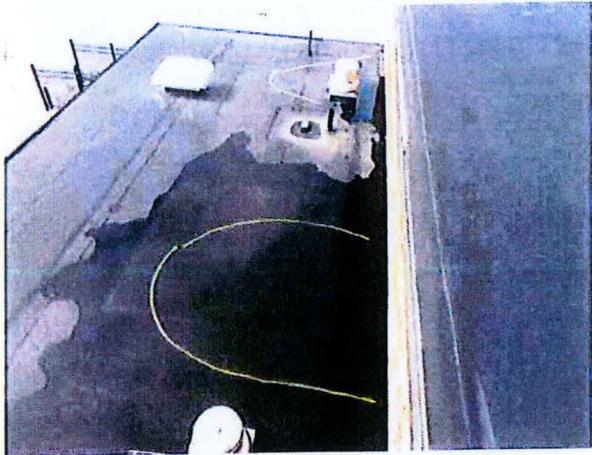


Photo 6

Wet insulation signified by paint



Photo 7

Wet insulation over a concrete deck has caused the insulation boards to buckle and warp



Photo 8

Core sample revealing wet insulation



Photo 9

Wet area marked with paint



Photo 10

Canopy is 100% under water



Photo 11

Drains will need to be added in several areas



Photo 12

Ponding water along the wall - will require adding drains



Photo 13

Ponding water



Solution Options

Client: Town of North Andover

Facility: Atkinson School

Roof Section: A, B, C & D

Replace Options

Solution Option: Replace

Action Year: 2015

Square Footage: 12,000

Expected Life Years: 30

Budget: \$350,000.00

Scope of Work:

1. Remove and dispose of all insulation, membrane and related components down to the substrate deck.
2. Raise thru-walls to accommodate minimum flashing heights - approx. 315 LF
3. Provide new drains to promote positive drainage.
4. Install new vapor barrier and flat/tapered insulation per code, as necessary.
5. Install multi-ply, high-performance roof assembly.
6. Provide a 30-Year warranty.



Construction Details

Client: Town of North Andover

Facility: Atkinson School

Roof Section: E, F & G

Information

Year Installed	1990	Square Footage	25,000
Slope Dimension	-	Roof Height	-
Roof Access	Ladder Needed	System Type	EPDM



Roof Section Photo



Photo Report

Client: Town of North Andover

Facility: Atkinson School

Roof Section: E, F & G

Report Date: 09/02/2014

Title: Inspection



Photo 1

Cover strip at perimeter edge has failed due to sliding snow



Photo 2

Open condition at perimeter eave



Photo 3

Failed flashing component - typical throughout



Photo 4
Open condition



Photo 5
Gutter assembly has been damaged due to sliding snow



Photo 6
Gutter brackets have come loose



Photo 7

Majority of gutter assembly has been compromised due to sliding snow



Solution Options

Client: Town of North Andover

Facility: Atkinson School

Roof Section: E, F & G

Repair Options

Solution Option:	Repair	Action Year:	2014
Square Footage:	25,000	Expected Life Years:	5
Budget:	\$7,500.00		
Scope of Work:	1. Provide new cover strip along the 360' of eaves on Roof F to create a leak-free assembly.		



Solution Options

Client: Town of North Andover

Facility: Atkinson School

Roof Section: E, F & G

Repair Options

Solution Option:	Repair	Action Year:	2014
Square Footage:	25,000	Expected Life Years:	-
Budget:	\$2,500.00		
Scope of Work:	1. Re-attach gutter at Roof E		



Solution Options

Client: Town of North Andover

Facility: Atkinson School

Roof Section: E, F & G

Restore Options

Solution Option:	Restore	Action Year:	2015
Square Footage:	25,000	Expected Life Years:	10
Budget:	\$175,000.00		
Scope of Work:	<ol style="list-style-type: none">1. Repair all roof areas to a leak-free condition.2. Powerwash and clean the entire roof surface.3. Install new white, elastomeric coating - 2 coats.4. Provide a 10-Year warranty.		



Solution Options

Client: Town of North Andover

Facility: Atkinson School

Roof Section: E, F & G

Retrofit Options

Solution Option:	Retrofit	Action Year:	2017
Square Footage:	25,000	Expected Life Years:	30
Budget:	\$425,000.00		
Scope of Work:	1. Provide additional insulation to meet code requirements. 2. Install new standing seam metal roof system over existing. 3. Provide a 30-Year warranty.		



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Information Technology **Priority:** 2
Department: IT - Schools **Type:** Replacement
Project: School IT (FY17-FY21) **Cost Basis:** Other
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Building Maintenance

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$100,000.00	\$100,000.00	\$100,000.00	\$200,000.00	\$200,000.00	\$700,000.00

Funding Source	Funding Amount	Submitted by: Jim Mealey
General Fund	\$700,000.00	Title: Assistant Superintendent for Finance and Operations
Total	\$700,000.00	Date: 10/20/2015

Description

Annual funding to maintain IT wireless network, server and data integration, and internet capacity at all schools and central office.

Justification

Total value of IT infrastructure asset is about \$1,000,000. At \$100,000 per year this is a lifecycle replacement time frame of 10 years. 5 years is more realistic, so the annual amount is increased to \$200,000 starting in FY20.

Description of item to be replaced

All of the equipment that provides IT wireless network, server and data integration, and internet capacity at all schools and central office.

Schedule for completion of project

Annual

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT TRACKING SYSTEM

Division: Education **Priority:** 3
Department: School Department **Type:** Replacement
Project: Atkinson Elementary Roof **Cost Basis:** Vendor Quote
Project Category: Building **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$464,500.00	\$0.00	\$0.00	\$464,500.00

Funding Source	Funding Amount	Submitted by: Jim Mealey
Select One	\$464,500.00	Title: Assistant Superintendent for Finance and Operations
	Total \$464,500.00	Date: 10/20/2015

Description	Justification
Replace rubber membrane roofing on flat portion of school's roof.	Assessment by roofing engineer and Facilities Manager

Description of item to be replaced	Schedule for completion of project
Rubber membrane roofing, new insulation thickness, and plumbing modifications.	Work to be completed during Summer, 2018.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

Atkinson School

CIP

FY 2016

Roof Replacement

date: 10.21.14

scope: reference summary dated 10.20.14

item	cost	description
design	\$25,000	building envelope consultant/engineer (Gale Assoc. to confirm design budget)
roofer	\$350,000	roofer quote provided in report 9.27.14
roof drain piping	\$15,000	modify/add new r.d.'s to accommodate new insulation thickness plumbing modifications - see memo 10.20.14 from Garland
masonry	\$0	raise thru wall flashing height to code requirement included in Garland estimate
hatch	\$10,000	hatch, demo, flashing, structural modifications
ladders	\$15,000	roof access ladders
subtotal	\$415,000	
bond	\$8,000	2%
contingency	\$41,500	10%
TOTAL	\$464,500	



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Education **Priority:** 6
Department: School Department **Type:** Improvement
Project: Districtwide Paving **Cost Basis:** Arct/Eng
Project Category: Land **Asset Class:** Class 1
Project Type: Roadways/Sidewalks

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$0.00	\$200,000.00	\$200,000.00

Funding Source	Funding Amount	Submitted by: Jim Mealey
General Fund	\$200,000.00	Title: Assistant Superintendent for Finance and Operations
Total	\$200,000.00	Date: 10/28/2015

Description

Justification

Description of item to be replaced

Schedule for completion of project

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Education **Priority:** 7
Department: School Department **Type:** Improvement
Project: School Drainage **Cost Basis:** Other
Project Category: Infrastructure **Asset Class:** Class 1
Project Type: Building Maintainance

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$0.00	\$100,000.00	\$100,000.00

Funding Source	Funding Amount	Submitted by: Jim Mealey
General Fund	\$100,000.00	Title: Assistant Superintendent for Finance and Operations
Total	\$100,000.00	Date: 10/28/2015

Description	Justification
Description of item to be replaced	Schedule for completion of project
Estimated value of replaced item: \$0.00	
NET Estimated Annual Impact: \$0.00	

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 1
Department: DPW Street & Sidewalks **Type:** Improvement
Project: Roadway Improvements FY 17 - FY 21 **Cost Basis:** Other
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Roadways/Sidewalks

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$1,230,000.00	\$1,210,000.00	\$1,230,000.00	\$1,160,000.00	\$1,280,000.00	\$6,110,000.00

Funding Source	Funding Amount	Submitted by:
State Grant	\$4,020,000.00	Bruce Thibodeau
General Fund	\$2,090,000.00	Title: Director
Total	\$6,110,000.00	Date: 10/15/2015

Description

The request is for roadway improvements on various streets to upgrade the conditions of the Town's infrastructure. The funds included both the state Chapter 90 monies and the local fund request that DPW uses to supplement the annual Chapter 90 funds from the State. The work will consist of crack sealing, milling existing paving and repaving, or reclaiming depending on the specific needs determined by the Pavement Management Study/Plan. Also, projects may require grading, drainage improvements, repair of curbing and sidewalks where road construction improvements are being done. Attached is a spreadsheet identifying specific streets, repair method for both the projects identified for Chapter 90 funds and Local funds being requested under this CIP request for the next five years. The Pavement Management Study/Plan investigated all roads in Town, rated condition of roads, identified repair methods, and costs. The Plan allows staff to develop projects, repair methods, and costs as well as ability update plan going forward as projects are done.

Justification

Currently the Town receives approximately \$700,000 to \$800,000 annually from Chapter 90 funds, which is consistent with similar municipalities in size and number of road miles. Chapter 90 is the only regular source that a town has for funding roadway improvements if local funds are not appropriated. If the Town relies only on Chap. 90 it can never fund all the improvements needed to prevent the roadway system deteriorating to a point where it will cost increasing amounts to improve. Each dollar spent now on good, fair or poor roads can prevent spending excessive amounts later, if delayed, when the roads have deteriorated further. The goal here is to supplement the Chap. 90 funding now on local roads (side streets) where Chap. 90 money is used for collectors and major arteries (Salem St. or Mass. Ave.) otherwise we could never get to these roads.

Description of item to be replaced

Improvements to existing roadways.

Schedule for completion of project

The schedule is to complete the work in the fiscal year that the funds are appropriated barring any unforeseen issues or adverse weather conditions. Contracts for utility work, milling, reclaiming, paving, and stripping are bid every three years during the winter months. Therefore, there will be no need for preparation of specifications or waiting for bids to be received. Once the funds are appropriated companies under contract will prepare estimates based on bid prices in the three year contracts, purchase orders will be issued and the work scheduled. Some work will be completed in the summer/fall construction season (July to November) and completion of the remaining work will be done in the spring season (April to June). Similar types of work, such as roads for milling and overlay, will be bundled together to reduce costs.

Town of North Andover, Massachusetts

*For Planning Purposes Only. Not to be used for Bidding and/or Construction

Pavement Management Program

Proposed FY2016 - FY2020 Roadway Improvement Plan- Overall

FY 17 - FY 21 CIP Submission - 10/28/201			Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate
Project Year: FY 2017												
Funding Source: Chapter 90												
Project Name: CRACK SEAL FY 17												
BERRY ST-02	ASH ST	TURNPIKE ST	1638.35	20	91	Crack Seal	\$1,456.31	\$102.00	\$0.00	\$0.00	\$0.00	\$1,558.00
COURT ST	ACADEMY RD	PLEASANT ST	2079.03	19	97	Crack Seal	\$1,755.63	\$123.00	\$0.00	\$0.00	\$0.00	\$1,879.00
FRANCIS ST	PATRIOT ST	BALDWIN ST	665.75	21	96	Crack Seal	\$621.36	\$43.00	\$0.00	\$0.00	\$0.00	\$665.00
LEXINGTON ST	PLEASANT ST	CONCORD ST	516.21	19	95	Crack Seal	\$435.91	\$31.00	\$0.00	\$0.00	\$0.00	\$466.00
MAY ST-02	HODGES ST	BELMONT ST	878.45	25	69	Crack Seal	\$976.06	\$68.00	\$0.00	\$0.00	\$0.00	\$1,044.00
OLD CLARK WAY	SUTTON ST	DEAD END	896.32	24	91	Crack Seal	\$956.07	\$67.00	\$0.00	\$0.00	\$0.00	\$1,023.00
WAVERLY RD-02	TURNPIKE ST	WOODRIDGE RD	1172.82	32	92	Crack Seal	\$1,668.01	\$117.00	\$0.00	\$0.00	\$0.00	\$1,785.00
WAVERLY RD-03	WOODRIDGE RD	CEMETERY	572.15	32	96	Crack Seal	\$813.72	\$57.00	\$0.00	\$0.00	\$0.00	\$871.00
WAVERLY RD-04	CEMETERY	CEMETERY	772.82	32	96	Crack Seal	\$1,099.12	\$77.00	\$0.00	\$0.00	\$0.00	\$1,176.00
WAVERLY RD-05	CEMETERY	MARENGO ST	378.06	32	96	Crack Seal	\$537.69	\$38.00	\$0.00	\$0.00	\$0.00	\$575.00
WAVERLY RD-06	MARENGO ST	HAWTHORNE PL	241.70	32	96	Crack Seal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WAVERLY RD-08	HALIFAX ST	MARGATE ST	243.53	32	98	Crack Seal	\$346.36	\$24.00	\$0.00	\$0.00	\$0.00	\$371.00
WAVERLY RD-09	MARGATE ST	DELUCIA WAY	541.01	32	97	Crack Seal	\$769.44	\$54.00	\$0.00	\$0.00	\$0.00	\$823.00
WAVERLY RD-10	DELUCIA WAY	GREENE ST	578.94	32	95	Crack Seal	\$823.39	\$58.00	\$0.00	\$0.00	\$0.00	\$881.00
WAVERLY RD-12	MABLIN AVE	TRINITY CT	107.10	32	96	Crack Seal	\$152.32	\$11.00	\$0.00	\$0.00	\$0.00	\$163.00
Project Totals			11,282.2				\$12,411.39	\$870.00	\$0.00	\$0.00	\$0.00	\$13,280.00
Project Name: CHADWICK STREET												
CHADWICK ST-01	OSGOOD ST	SURREY DR	530.16	19	62	Level and Overlay	\$16,228.71	\$1,136.00	\$0.00	\$0.00	\$1,623.00	\$18,988.00
CHADWICK ST-02	SURREY DR	COLGATE DR	378.64	19	55	Level and Overlay	\$11,590.49	\$811.00	\$0.00	\$0.00	\$1,159.00	\$13,561.00
CHADWICK ST-03	COLGATE DR	MOODY ST	301.36	19	62	Level and Overlay	\$9,225.00	\$646.00	\$0.00	\$0.00	\$923.00	\$10,793.00
CHADWICK ST-04	MOODY ST	PROSPECT ST	167.29	19	77	Level and Overlay	\$5,120.86	\$358.00	\$0.00	\$0.00	\$512.00	\$5,991.00
CHADWICK ST-05	PROSPECT ST	WENTWORTH AVE	252.92	19	52	Level and Overlay	\$7,742.19	\$542.00	\$0.00	\$0.00	\$774.00	\$9,058.00
CHADWICK ST-06	WENTWORTH AVE	HIGHLAND VIEW AVE	250.95	19	54	Level and Overlay	\$7,681.88	\$538.00	\$0.00	\$0.00	\$768.00	\$8,988.00
CHADWICK ST-07	HIGHLAND VIEW AVE	BRIGHTWOOD AVE	266.77	19	55	Level and Overlay	\$8,166.04	\$572.00	\$0.00	\$0.00	\$817.00	\$9,554.00
CHADWICK ST-08	BRIGHTWOOD AVE	SUTTON ST	419.30	19	78	Level and Overlay	\$12,835.09	\$898.00	\$0.00	\$0.00	\$1,284.00	\$15,017.00
Project Totals			2,567.38				\$78,590.27	\$5,501.00	\$0.00	\$0.00	\$7,860.00	\$91,950.00
Project Name: GREENE STREET												
GREENE ST-02	MIDDLESEX ST	WEST BRADSTREET RD	341.49	30	68	Level and Overlay	\$16,505.27	\$1,155.00	\$0.00	\$0.00	\$1,651.00	\$19,311.00
GREENE ST-03	WEST BRADSTREET RD	WEST WOODBRIDGE RD	283.53	30	69	Level and Overlay	\$13,703.92	\$959.00	\$0.00	\$0.00	\$1,370.00	\$16,034.00
GREENE ST-04	WEST WOODBRIDGE RD	FAULKNER RD	361.68	30	70	Level and Overlay	\$17,481.36	\$1,224.00	\$0.00	\$0.00	\$1,748.00	\$20,453.00

Fy 17 - FY 21 CIP Submission - 10/28/201

			Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate
GREENE ST-05	FAULKNER RD	PARKER ST	343.33	30	67	Level and Overlay	\$16,594.19	\$1,162.00	\$0.00	\$1,500.00	\$1,659.00	\$20,915.00
Project Totals			1,330.03				\$64,284.73	\$4,500.00	\$0.00	\$1,500.00	\$6,428.00	\$76,713.00
Project Name:	MILK STREET											
MILK ST-01	CHESTNUT ST	HEATH RD	871.08	25	63	Level and Overlay	\$35,085.10	\$2,456.00	\$0.00	\$1,500.00	\$3,509.00	\$42,550.00
Project Totals			871.08				\$35,085.10	\$2,456.00	\$0.00	\$1,500.00	\$3,509.00	\$42,550.00
Project Name:	SALEM STREET											
SALEM ST-24	INGALLS ST	OLYMPIC LN	1496.56	28	64	Level and Overlay	\$67,511.67	\$675.00	\$0.00	\$0.00	\$3,376.00	\$71,562.00
SALEM ST-25	OLYMPIC LN	CAMPBELL RD	579.24	28	84	Level and Overlay	\$26,130.22	\$261.00	\$0.00	\$0.00	\$1,307.00	\$27,698.00
Project Totals			2,075.81				\$93,641.89	\$936.00	\$0.00	\$0.00	\$4,683.00	\$99,260.00
Project Name:	THIRD STREET											
THIRD ST-01	MAIN ST	RICHARDSON AVE	378.89	33	62	Level and Overlay	\$20,144.32	\$201.00	\$0.00	\$0.00	\$1,007.00	\$21,353.00
THIRD ST-02	RICHARDSON AVE	MAPLE AVE	138.56	33	74	Level and Overlay	\$7,366.61	\$74.00	\$0.00	\$0.00	\$368.00	\$7,809.00
Project Totals			517.45				\$27,510.94	\$275.00	\$0.00	\$0.00	\$1,375.00	\$29,162.00
Project Name:	GREAT POND ROAD											
GREAT POND RD-05	BRADFORD ST	DRIVEWAY #1116	4348.60	29	67	Mill and Overlay	\$203,176.4	\$14,222.00	\$0.00	\$0.00	\$20,318.00	\$237,716.00
Project Totals			4,348.60				\$203,176.41	\$14,222.00	\$0.00	\$0.00	\$20,318.00	\$237,716.00
Project Name:	MILK STREET											
MILK ST-02	HEATH RD	JOHNSON ST	1107.25	25	52	Mill and Overlay	\$50,748.94	\$3,552.00	\$0.00	\$1,500.00	\$5,075.00	\$60,876.00
Project Totals			1,107.25				\$50,748.94	\$3,552.00	\$0.00	\$1,500.00	\$5,075.00	\$60,876.00
Project Name:	WILLOW STREET											
WILLOW ST-02	FLAGSHIP DR	WILLOW ST - S&S Drivew	2000.00	38	34	Mill and Overlay	\$135,111.1	\$1,351.00	\$0.00	\$0.00	\$6,756.00	\$143,218.00
Project Totals			2,000.00				\$135,111.11	\$1,351.00	\$0.00	\$0.00	\$6,756.00	\$143,218.00
											Chapter 90 Total:	\$794,725.00
Funding Source:	Local Funds											
Project Name:	BRIDGES LANE											
BRIDGES LN-01	FOSTER ST	TIFFANY LN	2699.35	27	34	Level and Overlay	\$117,421.5	\$8,220.00	\$0.00	\$0.00	\$0.00	\$125,641.00
BRIDGES LN-02	TIFFANY LN	VEST WAY	256.40	27	51	Level and Overlay	\$11,153.48	\$112.00	\$0.00	\$0.00	\$558.00	\$11,823.00
Project Totals			2,955.75				\$128,575.02	\$8,332.00	\$0.00	\$0.00	\$558.00	\$137,464.00
Project Name:	MEADOWVIEW ROAD											
MEADOWVIEW RD-01	MORNINGSIDE LN	WOODCREST DR	766.40	30	67	Level and Overlay	\$37,042.58	\$2,593.00	\$0.00	\$0.00	\$1,852.00	\$41,488.00
MEADOWVIEW RD-02	WOODCREST DR	HIGHWOOD WAY	704.63	30	49	Level and Overlay	\$34,057.26	\$2,384.00	\$0.00	\$0.00	\$1,703.00	\$38,144.00
MEADOWVIEW RD-03	HIGHWOOD WAY	SOUTH BRADFORD ST	330.13	30	73	Level and Overlay	\$15,956.44	\$1,117.00	\$0.00	\$0.00	\$798.00	\$17,871.00
Project Totals			1,801.16				\$87,056.28	\$6,094.00	\$0.00	\$0.00	\$4,353.00	\$97,503.00
Project Name:	RIVERVIEW STREET											
RIVERVIEW ST	NORTH MAIN ST	DEAD END	825.14	28	43	Level and Overlay	\$37,222.86	\$372.00	\$0.00	\$0.00	\$1,861.00	\$39,456.00
Project Totals			825.14				\$37,222.86	\$372.00	\$0.00	\$0.00	\$1,861.00	\$39,456.00
Project Name:	WOOD LANE											

Fy 17 - FY 21 CIP Submission - 10/28/201

			Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate	
WOOD LN-01	GREENE ST	WOODSTOCK ST	1307.36	21	38	Level and Overlay	\$44,232.21	\$3,096.00	\$0.00	\$0.00	\$2,212.00	\$49,540.00	
WOOD LN-02	WOODSTOCK ST	MEADOW LN	324.86	21	52	Level and Overlay	\$10,991.05	\$769.00	\$0.00	\$0.00	\$1,099.00	\$12,860.00	
WOOD LN-03	MEADOW LN	DEAD END	504.28	21	60	Level and Overlay	\$17,061.51	\$1,194.00	\$0.00	\$0.00	\$1,706.00	\$19,962.00	
Project Totals			2,136.50				\$72,284.77	\$5,059.00	\$0.00	\$0.00	\$5,017.00	\$82,362.00	
Project Name:	OAKES DRIVE												
OAKES DR	JOHNSON ST	CUL DE SAC	1058.52	27	32	Reclamation	\$76,213.31	\$762.00	\$0.00	\$0.00	\$3,811.00	\$80,786.00	
Project Totals			1,058.52				\$76,213.31	\$762.00	\$0.00	\$0.00	\$3,811.00	\$80,786.00	
										Local Funds	Total:	\$437,571.00	
												Total:	\$1,232,296.00

Project Year: FY 2018

Funding Source: Chapter 90

Project Name: ANDOVER STREET

ANDOVER ST-02	ANDREW CIR	WOOD LN	1112.22	30	86	Crack Seal	\$1,482.97	\$104.00	\$0.00	\$0.00	\$0.00	\$1,587.00
ANDOVER ST-03	WOOD LN	OSGOOD ST	1065.18	30	93	Crack Seal	\$1,420.24	\$99.00	\$0.00	\$0.00	\$0.00	\$1,520.00
ANDOVER ST-04	OSGOOD ST	JOHNSON ST	1377.18	30	98	Crack Seal	\$1,836.24	\$129.00	\$0.00	\$0.00	\$0.00	\$1,965.00
Project Totals			3,554.58				\$4,739.44	\$332.00	\$0.00	\$0.00	\$0.00	\$5,072.00

Project Name: ANDOVER STREET

ANDOVER ST-01	CHICKERING RD	ANDREW CIR	995.85	30	72	Level and Overlay	\$48,132.87	\$3,369.00	\$0.00	\$0.00	\$0.00	\$51,502.00
Project Totals			995.85				\$48,132.87	\$3,369.00	\$0.00	\$0.00	\$0.00	\$51,502.00

Project Name: BOXFORD STREET

BOXFORD ST-05	SHERWOOD DR	CANDLESTICK RD	2357.33	28	59	Level and Overlay	\$106,341.7	\$7,444.00	\$0.00	\$0.00	\$0.00	\$113,786.00
Project Totals			2,357.33				\$106,341.76	\$7,444.00	\$0.00	\$0.00	\$0.00	\$113,786.00

Project Name: MARBLERIDGE ROAD

MARBLERIDGE RD-04	SALEM ST	DALE ST	668.66	24	68	Level and Overlay	\$25,855.00	\$1,810.00	\$0.00	\$0.00	\$0.00	\$27,665.00
MARBLERIDGE RD-05	DALE ST	CASTLEMERE PL	1247.68	24	55	Level and Overlay	\$48,243.50	\$3,377.00	\$0.00	\$0.00	\$0.00	\$51,621.00
MARBLERIDGE RD-06	CASTLEMERE PL	GREAT POND RD	1014.99	24	67	Level and Overlay	\$39,246.09	\$2,747.00	\$0.00	\$0.00	\$0.00	\$41,993.00
Project Totals			2,931.33				\$113,344.58	\$7,934.00	\$0.00	\$0.00	\$0.00	\$121,279.00

Project Name: OSGOOD STREET

OSGOOD ST-07	BEACON HILL BLVD	PLEASANT ST	941.44	29	79	Level and Overlay	\$43,986.04	\$440.00	\$0.00	\$0.00	\$2,199.00	\$46,625.00
Project Totals			941.44				\$43,986.04	\$440.00	\$0.00	\$0.00	\$2,199.00	\$46,625.00

Project Name: SALEM STREET

SALEM ST-20	GRANVILLE LN	GRANVILLE LN	1454.46	28	79	Level and Overlay	\$65,612.12	\$656.00	\$0.00	\$0.00	\$3,281.00	\$69,549.00
SALEM ST-21	GRANVILLE LN	TURTLE LN	2568.68	28	68	Level and Overlay	\$115,876.1	\$1,159.00	\$0.00	\$0.00	\$5,794.00	\$122,829.00
SALEM ST-22	TURTLE LN	PHEASANT BROOK RD	665.82	28	73	Level and Overlay	\$30,036.04	\$2,103.00	\$0.00	\$0.00	\$0.00	\$32,139.00
Project Totals			4,688.96				\$211,524.27	\$3,918.00	\$0.00	\$0.00	\$9,075.00	\$224,517.00

Project Name: SUTTON STREET

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			Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate
SUTTON ST-14	MAIN ST	ASHLAND ST	531.93	42	79	Level and Overlay	\$35,993.84	\$360.00	\$0.00	\$0.00	\$1,800.00	\$38,153.00
Project Totals			531.93				\$35,993.84	\$360.00	\$0.00	\$0.00	\$1,800.00	\$38,153.00
Project Name:	MAIN STREET											
MAIN ST-19	CHICKERING RD	OSGOOD ST	940.43	34	65	Mill and Overlay	\$56,843.58	\$3,979.00	\$0.00	\$0.00	\$0.00	\$60,823.00
Project Totals			940.43				\$56,843.58	\$3,979.00	\$0.00	\$0.00	\$0.00	\$60,823.00
Project Name:	MASSACHUSETTS AVENUE											
MASSACHUSETTS AVE-14	BEECH AVE	WALNUT AVE	235.05	41	94	Mill and Overlay	\$17,132.74	\$1,199.00	\$0.00	\$0.00	\$0.00	\$18,332.00
MASSACHUSETTS AVE-19	BEACON HILL BLVD	BAY STATE RD	321.78	41	92	Mill and Overlay	\$23,454.42	\$1,642.00	\$0.00	\$0.00	\$0.00	\$25,096.00
Project Totals			556.84				\$40,587.16	\$2,841.00	\$0.00	\$0.00	\$0.00	\$43,428.00
Project Name:	SECOND STREET											
SECOND ST-01	MAIN ST	MAPLE AVE	903.40	35	52	Mill and Overlay	\$56,211.66	\$562.00	\$0.00	\$0.00	\$2,811.00	\$59,584.00
Project Totals			903.40				\$56,211.66	\$562.00	\$0.00	\$0.00	\$2,811.00	\$59,584.00
Chapter 90 Total:											\$764,769.00	
Funding Source:	Local Funds											
Project Name:	HAY MEADOW ROAD											
HAY MEADOW RD-02	DEER MEADOW RD	SAW MILL RD	1092.18	26	44	Level and Overlay	\$45,750.09	\$3,203.00	\$0.00	\$0.00	\$0.00	\$48,953.00
Project Totals			1,092.18				\$45,750.09	\$3,203.00	\$0.00	\$0.00	\$0.00	\$48,953.00
Project Name:	LINCOLN STREET											
LINCOLN ST	PLEASANT ST	RUSSELL ST	830.67	35	41	Level and Overlay	\$46,840.43	\$468.00	\$0.00	\$0.00	\$2,342.00	\$49,651.00
Project Totals			830.67				\$46,840.43	\$468.00	\$0.00	\$0.00	\$2,342.00	\$49,651.00
Project Name:	TANGLEWOOD LANE											
TANGLEWOOD LN-01	FOSTER ST	ROCKY BROOK RD	806.90	27	47	Level and Overlay	\$35,100.23	\$2,457.00	\$0.00	\$0.00	\$0.00	\$37,557.00
Project Totals			806.90				\$35,100.23	\$2,457.00	\$0.00	\$0.00	\$0.00	\$37,557.00
Project Name:	TURTLE LANE											
TURTLE LN	SALEM ST	CUL DE SAC	856.98	24	42	Level and Overlay	\$33,136.60	\$331.00	\$0.00	\$0.00	\$1,657.00	\$35,125.00
Project Totals			856.98				\$33,136.60	\$331.00	\$0.00	\$0.00	\$1,657.00	\$35,125.00
Project Name:	COCHICHEWICK DRIVE											
COCHICHEWICK DR	GREAT POND RD	CAMPION RD	1134.17	25	39	Mill and Overlay	\$50,407.53	\$504.00	\$0.00	\$0.00	\$2,520.00	\$53,432.00
Project Totals			1,134.17				\$50,407.53	\$504.00	\$0.00	\$0.00	\$2,520.00	\$53,432.00
Project Name:	SAUNDERS STREET											
SAUNDERS ST-01	MAIN ST	CLEVELAND ST	789.22	26	41	Mill and Overlay	\$36,479.28	\$365.00	\$0.00	\$0.00	\$1,824.00	\$38,668.00
Project Totals			789.22				\$36,479.28	\$365.00	\$0.00	\$0.00	\$1,824.00	\$38,668.00
Project Name:	BEACON HILL BOULEVARD											
BEACON HILL BLVD-02	CHICKERING RD	OSGOOD ST	764.92	27	40	Reclamation	\$55,074.25	\$3,855.00	\$0.00	\$0.00	\$0.00	\$58,929.00
Project Totals			764.92				\$55,074.25	\$3,855.00	\$0.00	\$0.00	\$0.00	\$58,929.00
Project Name:	BERKELEY ROAD											

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			Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate	
BERKELEY RD-01	TURNPIKE ST	FOSS RD	1256.02	26	46	Reclamation	\$87,083.74	\$6,096.00	\$0.00	\$0.00	\$0.00	\$93,180.00	
Project Totals			1,256.02				\$87,083.74	\$6,096.00	\$0.00	\$0.00	\$0.00	\$93,180.00	
Project Name:	LYMAN ROAD												
LYMAN RD-01	MIDDLESEX ST	SILSBEE RD	334.43	28	46	Reclamation	\$24,971.08	\$1,748.00	\$0.00	\$0.00	\$0.00	\$26,719.00	
Project Totals			334.43				\$24,971.08	\$1,748.00	\$0.00	\$0.00	\$0.00	\$26,719.00	
Local Funds											Total:	\$442,214.00	
												Total:	\$1,206,983.00

Project Year: FY 2019

Funding Source: Chapter 90

Project Name: Crack Seal FY 19

ASH ST-01	BERRY ST	WINDSOR LN	550.94	20	100	Crack Seal	\$489.72	\$34.00	\$0.00	\$0.00	\$0.00	\$524.00
ASH ST-02	WINDSOR LN	CAMPBELL RD	2001.69	20	98	Crack Seal	\$1,779.28	\$125.00	\$0.00	\$0.00	\$0.00	\$1,904.00
BEAR HILL RD-01	DALE ST	BEAR HILL RD-05	500.83	27	100	Crack Seal	\$600.99	\$42.00	\$0.00	\$0.00	\$0.00	\$643.00
BEAR HILL RD-02	BEAR HILL RD-05	HIGH PLAINS RD	1671.07	27	100	Crack Seal	\$2,005.28	\$140.00	\$0.00	\$0.00	\$0.00	\$2,146.00
BEAR HILL RD-03	HIGH PLAINS RD	BLUE RIDGE RD	1028.21	27	97	Crack Seal	\$1,233.85	\$86.00	\$0.00	\$0.00	\$0.00	\$1,320.00
BEAR HILL RD-04	BLUE RIDGE RD	DRIVEWAY #294	544.39	27	97	Crack Seal	\$653.27	\$46.00	\$0.00	\$0.00	\$0.00	\$699.00
BEAR HILL RD-05	DRIVEWAY #294	KITTREDGE RD	976.09	27	100	Crack Seal	\$1,171.30	\$82.00	\$0.00	\$0.00	\$0.00	\$1,253.00
BOSTON ST-05	OLD CART WAY	WILLOW RIDGE RD	1598.89	24	100	Crack Seal	\$1,705.48	\$119.00	\$0.00	\$0.00	\$0.00	\$1,825.00
BOSTON ST-06	WILLOW RIDGE RD	ANDOVER TL	1101.38	24	100	Crack Seal	\$1,174.80	\$82.00	\$0.00	\$0.00	\$0.00	\$1,257.00
BRADFORD ST-01	OSGOOD ST	WHITE BIRCH LN	2399.30	21	100	Crack Seal	\$2,239.35	\$157.00	\$0.00	\$0.00	\$0.00	\$2,396.00
BRADFORD ST-02	WHITE BIRCH LN	SETTLERS RIDGE RD	1386.64	21	100	Crack Seal	\$1,294.20	\$91.00	\$0.00	\$0.00	\$0.00	\$1,385.00
CAMPBELL RD-01	SALEM ST	WEBSTER WOODS LN	1520.41	20	100	Crack Seal	\$1,351.47	\$95.00	\$0.00	\$0.00	\$0.00	\$1,446.00
CAMPBELL RD-02	WEBSTER WOODS LN	LYONS WAY	885.49	20	100	Crack Seal	\$787.10	\$55.00	\$0.00	\$0.00	\$0.00	\$842.00
CAMPBELL RD-03	LYONS WAY	ASH ST	1145.90	20	100	Crack Seal	\$1,018.57	\$71.00	\$0.00	\$0.00	\$0.00	\$1,090.00
DAVIS ST-01	EAST WATER ST	FOUNTAIN DR	250.72	24	97	Crack Seal	\$267.43	\$19.00	\$0.00	\$0.00	\$0.00	\$286.00
DAVIS ST-02	FOUNTAIN DR	PLEASANT ST	398.14	24	96	Crack Seal	\$424.69	\$30.00	\$0.00	\$0.00	\$0.00	\$454.00
DAVIS ST-03	PLEASANT ST	ELMCREST RD	321.12	24	99	Crack Seal	\$342.53	\$24.00	\$0.00	\$0.00	\$0.00	\$367.00
DAVIS ST-04	ELMCREST RD	MAIN ST	918.05	24	97	Crack Seal	\$979.25	\$69.00	\$0.00	\$0.00	\$0.00	\$1,048.00
HERRICK RD-01	MIDDLESEX ST	SILSBEE RD	262.08	25	100	Crack Seal	\$291.20	\$20.00	\$0.00	\$0.00	\$0.00	\$312.00
HERRICK RD-02	SILSBEE RD	EDMANDS RD	247.31	25	100	Crack Seal	\$274.79	\$19.00	\$0.00	\$0.00	\$0.00	\$294.00
HERRICK RD-03	EDMANDS RD	BUCKINGHAM RD	254.14	25	100	Crack Seal	\$282.38	\$20.00	\$0.00	\$0.00	\$0.00	\$302.00
HERRICK RD-04	BUCKINGHAM RD	YOUNG RD	316.28	25	100	Crack Seal	\$351.42	\$25.00	\$0.00	\$0.00	\$0.00	\$376.00
HERRICK RD-05	YOUNG RD	LITTLE RD	270.26	25	100	Crack Seal	\$300.29	\$21.00	\$0.00	\$0.00	\$0.00	\$321.00
HERRICK RD-06	LITTLE RD	WAVERLY RD	408.84	25	100	Crack Seal	\$454.26	\$32.00	\$0.00	\$0.00	\$0.00	\$486.00
JOHNSON CIR	JOHNSON ST	CUL DE SAC	1200.22	24	96	Crack Seal	\$1,280.24	\$90.00	\$0.00	\$0.00	\$0.00	\$1,370.00
LISA LN-01	JOHNSON ST	KIERAN RD	501.77	28	99	Crack Seal	\$624.43	\$44.00	\$0.00	\$0.00	\$0.00	\$668.00
PHILLIPS CT	OSGOOD ST	PLEASANT ST	988.84	22	97	Crack Seal	\$966.87	\$68.00	\$0.00	\$0.00	\$0.00	\$1,035.00
POND ST	GREAT POND RD	BOXFORD TL	1078.91	25	100	Crack Seal	\$1,198.79	\$84.00	\$0.00	\$0.00	\$0.00	\$1,283.00

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			Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate
RALEIGH TAVERN LN-01	FARNUM ST	WOODCHUCK LN	2596.72	28	99	Crack Seal	\$3,231.47	\$226.00	\$0.00	\$0.00	\$0.00	\$3,458.00
RALEIGH TAVERN LN-02	WOODCHUCK LN	STERLING LN	818.85	28	99	Crack Seal	\$1,019.01	\$71.00	\$0.00	\$0.00	\$0.00	\$1,090.00
RALEIGH TAVERN LN-03	STERLING LN	CARLTON LN	986.01	28	99	Crack Seal	\$1,227.04	\$86.00	\$0.00	\$0.00	\$0.00	\$1,313.00
RALEIGH TAVERN LN-04	CARLTON LN	FARNUM ST	1986.31	28	99	Crack Seal	\$2,471.86	\$173.00	\$0.00	\$0.00	\$0.00	\$2,645.00
SILSBEE RD	HERRICK RD	LYMAN RD	584.04	20	100	Crack Seal	\$519.14	\$36.00	\$0.00	\$0.00	\$0.00	\$555.00
Project Totals			31,699.8				\$34,011.77	\$2,382.00	\$0.00	\$0.00	\$0.00	\$36,393.00
Project Name:	BOXFORD STREET											
BOXFORD ST-03	DUNCAN DR	STONECLEAVE RD	756.60	28	70	Level and Overlay	\$34,131.09	\$2,389.00	\$0.00	\$0.00	\$0.00	\$36,520.00
Project Totals			756.60				\$34,131.09	\$2,389.00	\$0.00	\$0.00	\$0.00	\$36,520.00
Project Name:	HIGH STREET											
HIGH ST-01	SUTTON ST	PERLEY RD	714.55	29	75	Mill and Overlay	\$36,839.00	\$2,579.00	\$0.00	\$0.00	\$0.00	\$39,418.00
HIGH ST-02	PERLEY RD	FURBER AVE	387.14	29	68	Mill and Overlay	\$19,958.98	\$1,397.00	\$0.00	\$0.00	\$0.00	\$21,356.00
HIGH ST-03	FURBER AVE	PRESCOTT ST	853.72	29	67	Mill and Overlay	\$44,013.82	\$3,081.00	\$0.00	\$0.00	\$0.00	\$47,095.00
HIGH ST-04	PRESCOTT ST	WATER ST	916.98	29	61	Mill and Overlay	\$47,275.21	\$473.00	\$0.00	\$0.00	\$2,364.00	\$50,112.00
Project Totals			2,872.38				\$148,087.00	\$7,530.00	\$0.00	\$0.00	\$2,364.00	\$157,981.00
Project Name:	MASSACHUSETTS AVENUE											
MASSACHUSETTS AVE-20	BAY STATE RD	PHILLIP BROOKS RD	402.68	41	95	Mill and Overlay	\$29,351.14	\$2,055.00	\$0.00	\$0.00	\$0.00	\$31,406.00
MASSACHUSETTS AVE-21	PHILLIP BROOKS RD	AUTRAN AVE	429.43	41	95	Mill and Overlay	\$31,300.61	\$2,191.00	\$0.00	\$0.00	\$0.00	\$33,492.00
MASSACHUSETTS AVE-22	AUTRAN AVE	CHICKERING RD	188.87	41	92	Mill and Overlay	\$13,766.81	\$964.00	\$0.00	\$0.00	\$0.00	\$14,730.00
Project Totals			1,020.99				\$74,418.57	\$5,210.00	\$0.00	\$0.00	\$0.00	\$79,628.00
Project Name:	SHARPNERS POND ROAD											
SHARPNERS POND RD-01	TURNPIKE ST	SALEM ST	5047.74	26	65	Mill and Overlay	\$233,317.5	\$16,332.00	\$0.00	\$0.00	\$0.00	\$249,650.00
Project Totals			5,047.74				\$233,317.56	\$16,332.00	\$0.00	\$0.00	\$0.00	\$249,650.00
Project Name:	SUTTON STREET											
SUTTON ST-15	ASHLAND ST	LAWRENCE CITY LINE	1403.37	42	62	Mill and Overlay	\$104,784.8	\$1,048.00	\$0.00	\$0.00	\$5,239.00	\$111,072.00
Project Totals			1,403.37				\$104,784.80	\$1,048.00	\$0.00	\$0.00	\$5,239.00	\$111,072.00
Project Name:	WATER STREET											
WATER ST-01	MAIN ST	MERRIMAC ST	633.43	36	65	Mill and Overlay	\$40,539.75	\$405.00	\$0.00	\$0.00	\$2,027.00	\$42,972.00
WATER ST-03	BROWNS CT	CHURCH ST	201.24	36	84	Mill and Overlay	\$12,879.48	\$129.00	\$0.00	\$0.00	\$644.00	\$13,652.00
WATER ST-04	CHURCH ST	ELM ST	278.92	36	72	Mill and Overlay	\$17,850.84	\$179.00	\$0.00	\$0.00	\$893.00	\$18,922.00
WATER ST-05	ELM ST	WILEY CT	660.99	36	48	Mill and Overlay	\$42,303.06	\$423.00	\$0.00	\$0.00	\$2,115.00	\$44,841.00
WATER ST-06	WILEY CT	BIXBY AVE	174.74	36	45	Mill and Overlay	\$11,183.41	\$112.00	\$0.00	\$0.00	\$559.00	\$11,854.00
WATER ST-07	BIXBY AVE	CLARENDON ST	215.02	36	68	Mill and Overlay	\$13,761.19	\$138.00	\$0.00	\$0.00	\$688.00	\$14,587.00
Project Totals			2,164.34				\$138,517.73	\$1,386.00	\$0.00	\$0.00	\$6,926.00	\$146,828.00
											Chapter 90 Total:	\$818,072.00
Funding Source:	Local Funds											
Project Name:	BRENTWOOD CIRCLE											
BRENTWOOD CIR-02	CIRCLE	CIRCLE	3527.32	26	49	Level and Overlay	\$147,755.3	\$7,388.00	\$0.00	\$0.00	\$0.00	\$155,143.00

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	Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate	
Project Totals	3,527.32				\$147,755.32	\$7,388.00	\$0.00	\$0.00	\$0.00	\$155,143.00	
Project Name: CROSSBOW LANE											
CROSSBOW LN	INGALLS ST	LACONIA CIR	2002.08	26	46	Level and Overlay	\$83,864.81	\$4,193.00	\$0.00	\$0.00	\$88,058.00
Project Totals	2,002.08				\$83,864.81	\$4,193.00	\$0.00	\$0.00	\$0.00	\$88,058.00	
Project Name: HOLLOW TREE LANE											
HOLLOW TREE LN	WINTER ST	CUL DE SAC	718.37	26	46	Level and Overlay	\$30,091.61	\$2,106.00	\$0.00	\$0.00	\$32,198.00
Project Totals	718.37				\$30,091.61	\$2,106.00	\$0.00	\$0.00	\$0.00	\$32,198.00	
Project Name: LONGWOOD AVENUE											
LONGWOOD AVE	ROSEDALE AVE	CHESTNUT ST	1193.92	21	52	Reclamation	\$66,859.54	\$3,343.00	\$0.00	\$0.00	\$70,203.00
Project Totals	1,193.92				\$66,859.54	\$3,343.00	\$0.00	\$0.00	\$0.00	\$70,203.00	
Project Name: MARBLEHEAD STREET											
MARBLEHEAD ST-06	DANA ST	DEWEY ST	284.24	31	67	Reclamation	\$23,497.58	\$1,645.00	\$0.00	\$0.00	\$25,142.00
Project Totals	284.24				\$23,497.58	\$1,645.00	\$0.00	\$0.00	\$0.00	\$25,142.00	
Project Name: MOUNT VERNON STREET											
MOUNT VERNON ST	PRESCOTT ST	CUL DE SAC	671.91	21	49	Reclamation	\$37,627.16	\$1,881.00	\$0.00	\$0.00	\$39,509.00
Project Totals	671.91				\$37,627.16	\$1,881.00	\$0.00	\$0.00	\$0.00	\$39,509.00	
									Local Funds Total:	\$410,253.00	
									Total:	\$1,228,325.00	

Project Year: FY 2020

Funding Source: Chapter 90

Project Name: BOXFORD STREET											
BOXFORD ST-06	CANDLESTICK RD	FOREST ST	299.25	28	81	Crack Seal	\$372.40	\$26.00	\$0.00	\$0.00	\$398.00
Project Totals	299.25					\$372.40	\$26.00	\$0.00	\$0.00	\$0.00	\$398.00
Project Name: MILK STREET											
MILK ST-03	JOHNSON ST	SALEM ST	275.30	25	97	Crack Seal	\$305.89	\$21.00	\$0.00	\$0.00	\$327.00
Project Totals	275.30					\$305.89	\$21.00	\$0.00	\$0.00	\$0.00	\$327.00
Project Name: SALEM STREET											
SALEM ST-01	JOHNSON ST	STEVENS ST	115.35	30	97	Crack Seal	\$153.81	\$11.00	\$0.00	\$0.00	\$165.00
SALEM ST-02	STEVENS ST	MILK ST	238.18	30	97	Crack Seal	\$317.57	\$22.00	\$0.00	\$0.00	\$340.00
SALEM ST-03	MILK ST	LEANNE DR	927.55	30	80	Crack Seal	\$1,236.74	\$87.00	\$0.00	\$0.00	\$1,323.00
SALEM ST-04	CEMETERY	CEMETERY	1044.61	30	83	Crack Seal	\$1,392.81	\$97.00	\$0.00	\$0.00	\$1,490.00
SALEM ST-05	CEMETERY	DALE ST	601.34	30	83	Crack Seal	\$801.79	\$56.00	\$0.00	\$0.00	\$858.00
SALEM ST-06	DALE ST	MARBLERIDGE RD	624.61	30	87	Crack Seal	\$832.81	\$58.00	\$0.00	\$0.00	\$891.00
SALEM ST-07	MARBLERIDGE RD	APPLETON ST	536.65	30	81	Crack Seal	\$715.54	\$50.00	\$0.00	\$0.00	\$766.00
SALEM ST-08	APPLETON ST	ANNIE RD	411.59	30	93	Crack Seal	\$548.78	\$38.00	\$0.00	\$0.00	\$587.00
SALEM ST-09	ANNIE RD	BANNAN DR	2156.32	30	88	Crack Seal	\$2,875.09	\$201.00	\$0.00	\$0.00	\$3,076.00

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			Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate
SALEM ST-10	BANNAN DR	DRIVEWAY #561	940.66	30	96	Crack Seal	\$1,254.21	\$88.00	\$0.00	\$0.00	\$0.00	\$1,342.00
SALEM ST-11	DRIVEWAY #561	NUTMEG LN	270.51	30	99	Crack Seal	\$360.69	\$25.00	\$0.00	\$0.00	\$0.00	\$386.00
SALEM ST-12	NUTMEG LN	ABBOTT ST	1150.75	30	99	Crack Seal	\$1,534.33	\$107.00	\$0.00	\$0.00	\$0.00	\$1,642.00
SALEM ST-13	ABBOTT ST	SUMMER ST	590.17	30	99	Crack Seal	\$786.90	\$55.00	\$0.00	\$0.00	\$0.00	\$842.00
SALEM ST-14	SUMMER ST	BLUE RIDGE RD	505.49	30	99	Crack Seal	\$673.98	\$47.00	\$0.00	\$0.00	\$0.00	\$721.00
SALEM ST-15	BLUE RIDGE RD	FULLER RD	1616.67	30	97	Crack Seal	\$2,155.55	\$151.00	\$0.00	\$0.00	\$0.00	\$2,306.00
SALEM ST-16	FULLER RD	HUCKLEBERRY LN	388.49	30	96	Crack Seal	\$517.99	\$36.00	\$0.00	\$0.00	\$0.00	\$554.00
SALEM ST-17	HUCKLEBERRY LN	FOSTER ST	787.71	30	99	Crack Seal	\$1,050.28	\$74.00	\$0.00	\$0.00	\$0.00	\$1,124.00
SALEM ST-18	FOSTER ST	DRIVEWAY #1225	2281.46	28	100	Crack Seal	\$2,839.15	\$199.00	\$0.00	\$0.00	\$0.00	\$3,038.00
SALEM ST-19	DRIVEWAY #1225	GRANVILLE LN	658.55	28	100	Crack Seal	\$819.53	\$57.00	\$0.00	\$0.00	\$0.00	\$877.00
SALEM ST-23	PHEASANT BROOK RD	INGALLS ST	726.11	28	82	Crack Seal	\$903.61	\$63.00	\$0.00	\$0.00	\$0.00	\$967.00
SALEM ST-26	CAMPBELL RD	MIDDLETON TL	4331.60	28	96	Crack Seal	\$5,390.43	\$377.00	\$0.00	\$0.00	\$0.00	\$5,768.00
Project Totals			20,904.3				\$27,161.60	\$1,899.00	\$0.00	\$0.00	\$0.00	\$29,063.00
Project Name:	GREAT POND ROAD											
GREAT POND RD-04	CAMPION RD	BRADFORD ST	943.01	29	75	Level and Overlay	\$44,059.36	\$3,084.00	\$0.00	\$0.00	\$0.00	\$47,144.00
Project Totals			943.01				\$44,059.36	\$3,084.00	\$0.00	\$0.00	\$0.00	\$47,144.00
Project Name:	HILLSIDE ROAD											
HILLSIDE RD-01	CHESTNUT ST	INNIS ST	2296.59	24	83	Level and Overlay	\$101,049.8	\$7,073.00	\$0.00	\$0.00	\$0.00	\$108,123.00
HILLSIDE RD-02	INNIS ST	TURNPIKE ST	371.14	24	87	Level and Overlay	\$14,350.79	\$1,005.00	\$0.00	\$0.00	\$0.00	\$15,355.00
Project Totals			2,667.73				\$115,400.67	\$8,078.00	\$0.00	\$0.00	\$0.00	\$123,478.00
Project Name:	JOHNSON STREET											
JOHNSON ST-05	SUTTON HILL RD	ABBOTT ST	1761.06	25	79	Mill and Overlay	\$78,269.12	\$5,479.00	\$0.00	\$0.00	\$0.00	\$83,748.00
JOHNSON ST-06	ABBOTT ST	MARBLERIDGE RD	894.46	25	79	Mill and Overlay	\$39,753.92	\$2,783.00	\$0.00	\$0.00	\$0.00	\$42,537.00
JOHNSON ST-12	OAKES DR	MILL RD	271.90	25	71	Mill and Overlay	\$12,462.27	\$872.00	\$0.00	\$0.00	\$0.00	\$13,335.00
JOHNSON ST-13	MILL RD	TURNPIKE ST	3366.95	25	76	Mill and Overlay	\$149,642.2	\$10,475.00	\$0.00	\$0.00	\$0.00	\$160,117.00
Project Totals			6,294.37				\$280,127.52	\$19,609.00	\$0.00	\$0.00	\$0.00	\$299,737.00
Project Name:	MASSACHUSETTS AVENUE											
MASSACHUSETTS AVE-08	WAVERLY RD	LYMAN RD	188.34	41	89	Mill and Overlay	\$13,727.55	\$961.00	\$0.00	\$0.00	\$0.00	\$14,688.00
MASSACHUSETTS AVE-09	LYMAN RD	HAMILTON RD	293.28	41	83	Mill and Overlay	\$21,376.55	\$1,496.00	\$0.00	\$0.00	\$0.00	\$22,873.00
MASSACHUSETTS AVE-10	HAMILTON RD	HOLBROOK RD	241.70	41	84	Mill and Overlay	\$17,617.58	\$1,233.00	\$0.00	\$0.00	\$0.00	\$18,851.00
MASSACHUSETTS AVE-11	HOLBROOK RD	GREENE ST	426.52	41	91	Mill and Overlay	\$31,088.28	\$2,176.00	\$0.00	\$0.00	\$0.00	\$33,264.00
Project Totals			1,149.83				\$83,809.95	\$5,866.00	\$0.00	\$0.00	\$0.00	\$89,676.00
Project Name:	PETERS STREET											
PETERS ST-01	ANDOVER ST	BREWSTER ST	184.05	25	68	Mill and Overlay	\$8,179.92	\$409.00	\$0.00	\$40,000.00	\$409.00	\$48,998.00
PETERS ST-02	BREWSTER ST	ACUSHNET ST	230.34	25	68	Mill and Overlay	\$10,237.30	\$512.00	\$0.00	\$40,000.00	\$512.00	\$51,261.00
PETERS ST-03	ACUSHNET ST	TURNPIKE ST	1027.61	25	69	Mill and Overlay	\$45,671.46	\$2,284.00	\$0.00	\$100,000.0	\$2,284.00	\$150,239.00
Project Totals			1,442.00				\$64,088.68	\$3,205.00	\$0.00	\$180,000.00	\$3,205.00	\$250,498.00
Project Name:	WATER STREET											
WATER ST-02	MERRIMAC ST	BROWNS CT	163.33	36	73	Mill and Overlay	\$10,453.26	\$105.00	\$0.00	\$0.00	\$523.00	\$11,080.00

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	Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate	
Project Totals	163.33				\$10,453.26	\$105.00	\$0.00	\$0.00	\$523.00	\$11,080.00	
									Chapter 90 Total:	\$851,401.00	
Funding Source: Local Funds											
Project Name: CARLTON LANE											
CARLTON LN-01	RALEIGH TAVERN LN	JOHNNY CAKE ST	2168.73	28	49	Level and Overlay	\$97,833.94	\$6,848.00	\$0.00	\$0.00	\$104,682.00
CARLTON LN-02	JOHNNY CAKE ST	JOHNNY CAKE ST	917.25	28	49	Level and Overlay	\$41,378.26	\$2,896.00	\$0.00	\$0.00	\$44,275.00
CARLTON LN-03	JOHNNY CAKE ST	SUMMER ST	587.03	28	71	Level and Overlay	\$26,481.69	\$1,854.00	\$0.00	\$0.00	\$28,335.00
Project Totals	3,673.02				\$165,693.89	\$11,598.00	\$0.00	\$0.00	\$0.00	\$177,292.00	
Project Name: VEST WAY											
VEST WAY-01	FOSTER ST	PRIVATE DRIVE	1105.59	26	40	Level and Overlay	\$46,311.97	\$463.00	\$0.00	\$0.00	\$49,091.00
VEST WAY-02	PRIVATE DRIVE	BRIDGES LN	1729.47	26	36	Level and Overlay	\$72,445.51	\$724.00	\$0.00	\$0.00	\$76,792.00
Project Totals	2,835.06				\$118,757.48	\$1,187.00	\$0.00	\$0.00	\$5,938.00	\$125,883.00	
									Local Funds Total:	\$303,175.00	
										Total: \$1,154,576.00	

Project Year: FY 2021

Funding Source: Chapter 90

Project Name: Crack Seal FY 21

BANNAN DR	SALEM ST	CUL DE SAC	998.12	26	100	Crack Seal	\$1,153.38	\$81.00	\$0.00	\$0.00	\$0.00	\$1,234.00
BEAR HILL RD-06	KITTREDGE RD	BEAR HILL RD-02	1522.96	27	100	Crack Seal	\$1,827.55	\$128.00	\$0.00	\$0.00	\$0.00	\$1,955.00
BOXFORD ST-01	BOXFORD TL	BROOKVIEW DR	1548.67	28	62	Crack Seal	\$1,927.23	\$19.00	\$0.00	\$0.00	\$96.00	\$2,043.00
BOXFORD ST-02	BROOKVIEW DR	DUNCAN DR	2270.91	28	49	Crack Seal	\$2,826.02	\$57.00	\$0.00	\$0.00	\$141.00	\$3,024.00
FOREST ST-01	SHARPNERS POND RD	WILDWOOD CIR	1288.82	18	100	Crack Seal	\$1,031.06	\$72.00	\$0.00	\$0.00	\$0.00	\$1,103.00
FOREST ST-02	WILDWOOD CIR	LACONIA CIR	1599.52	18	100	Crack Seal	\$1,279.61	\$90.00	\$0.00	\$0.00	\$0.00	\$1,369.00
FOREST ST-03	LACONIA CIR	DRIVEWAY #743	1289.15	18	100	Crack Seal	\$1,031.32	\$72.00	\$0.00	\$0.00	\$0.00	\$1,104.00
FOREST ST-04	DRIVEWAY #743	LACY ST	1196.22	18	100	Crack Seal	\$956.98	\$67.00	\$0.00	\$0.00	\$0.00	\$1,024.00
FOREST ST-05	LACY ST	SCOTT CIR	615.83	18	100	Crack Seal	\$492.67	\$34.00	\$0.00	\$0.00	\$0.00	\$527.00
FOREST ST-06	SCOTT CIR	INGALLS ST	519.40	22	95	Crack Seal	\$507.86	\$36.00	\$0.00	\$0.00	\$0.00	\$543.00
FOREST ST-07	INGALLS ST	LONG PASTURE RD	1167.96	22	92	Crack Seal	\$1,142.01	\$80.00	\$0.00	\$0.00	\$0.00	\$1,222.00
FOREST ST-08	LONG PASTURE RD	CEDAR LN	996.54	22	91	Crack Seal	\$974.39	\$68.00	\$0.00	\$0.00	\$0.00	\$1,043.00
FOX HILL RD	PLEASANT ST	GREAT POND RD	1651.99	29	100	Crack Seal	\$2,129.23	\$149.00	\$0.00	\$0.00	\$0.00	\$2,278.00
HOLT RD-01	OSGOOD ST	CLARK ST	4258.55	32	60	Crack Seal	\$6,056.61	\$61.00	\$0.00	\$0.00	\$303.00	\$6,420.00
HOLT RD-02	HOLT RD-01	CUL DE SAC	1955.45	29	40	Crack Seal	\$2,520.36	\$25.00	\$0.00	\$0.00	\$126.00	\$2,672.00
KITTREDGE RD	BEAR HILL RD	CUL DE SAC	659.86	27	100	Crack Seal	\$791.83	\$55.00	\$0.00	\$0.00	\$0.00	\$847.00
LACY ST-02	DRIVEWAY #170	PRIVATE RD	3689.64	21	100	Crack Seal	\$3,443.66	\$241.00	\$0.00	\$0.00	\$0.00	\$3,685.00
LACY ST-03	PRIVATE RD	BOXFORD TL	326.31	21	100	Crack Seal	\$304.56	\$21.00	\$0.00	\$0.00	\$0.00	\$326.00
MIDDLESEX ST-01	FRONTAGE ST	BEVERLY ST	259.86	26	100	Crack Seal	\$300.28	\$21.00	\$0.00	\$0.00	\$0.00	\$321.00
MIDDLESEX ST-02	BEVERLY ST	MARBLEHEAD ST	428.21	26	100	Crack Seal	\$494.82	\$35.00	\$0.00	\$0.00	\$0.00	\$529.00

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			Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate
MIDDLESEX ST-03	MARBLEHEAD ST	ANNIS ST	333.38	26	100	Crack Seal	\$385.24	\$27.00	\$0.00	\$0.00	\$0.00	\$412.00
MIDDLESEX ST-04	ANNIS ST	WAVERLY RD	337.18	26	100	Crack Seal	\$389.63	\$27.00	\$0.00	\$0.00	\$0.00	\$417.00
MIDDLESEX ST-05	WAVERLY RD	MORRIS ST	256.31	26	100	Crack Seal	\$296.18	\$21.00	\$0.00	\$0.00	\$0.00	\$317.00
MIDDLESEX ST-06	MORRIS ST	STONINGTON ST	182.81	26	100	Crack Seal	\$211.25	\$15.00	\$0.00	\$0.00	\$0.00	\$226.00
MIDDLESEX ST-07	STONINGTON ST	DUDLEY ST	267.31	26	100	Crack Seal	\$308.90	\$22.00	\$0.00	\$0.00	\$0.00	\$331.00
MIDDLESEX ST-08	DUDLEY ST	THIRD ST	278.61	26	100	Crack Seal	\$321.94	\$23.00	\$0.00	\$0.00	\$0.00	\$344.00
MIFFLIN DR-01	MASS AVE	DOUGLAS RD	371.06	39	100	Crack Seal	\$643.17	\$45.00	\$0.00	\$0.00	\$0.00	\$688.00
MIFFLIN DR-02	DOUGLAS RD	PUTNAM RD	239.81	39	100	Crack Seal	\$415.66	\$29.00	\$0.00	\$0.00	\$0.00	\$445.00
MIFFLIN DR-03	PUTNAM RD	PEMBROOK RD	247.85	39	100	Crack Seal	\$429.60	\$30.00	\$0.00	\$0.00	\$0.00	\$460.00
MIFFLIN DR-04	PEMBROOK RD	WEST WOODBRIDGE RD	254.71	39	100	Crack Seal	\$441.50	\$31.00	\$0.00	\$0.00	\$0.00	\$472.00
MIFFLIN DR-05	WEST WOODBRIDGE RD	WEST BRADSTREET RD	315.78	39	100	Crack Seal	\$547.34	\$38.00	\$0.00	\$0.00	\$0.00	\$586.00
MIFFLIN DR-06	WEST BRADSTREET RD	MIDDLESEX ST	242.87	39	100	Crack Seal	\$420.98	\$29.00	\$0.00	\$0.00	\$0.00	\$450.00
SHARPNERS POND RD-02	SALEM ST	PRIVATE RD	734.01	26	100	Crack Seal	\$848.18	\$59.00	\$0.00	\$0.00	\$0.00	\$908.00
SHARPNERS POND RD-03	PRIVATE RD	PRIVATE RD	951.70	26	100	Crack Seal	\$1,099.74	\$77.00	\$0.00	\$0.00	\$0.00	\$1,177.00
SHARPNERS POND RD-04	PRIVATE RD	PRIVATE DRIVE	1552.26	26	100	Crack Seal	\$1,793.72	\$126.00	\$0.00	\$0.00	\$0.00	\$1,919.00
SHARPNERS POND RD-05	PRIVATE DRIVE	FOREST ST	755.89	26	100	Crack Seal	\$873.47	\$61.00	\$0.00	\$0.00	\$0.00	\$935.00
SUTTON ST-01	OSGOOD ST	OLD CLARK WAY	228.98	30	92	Crack Seal	\$305.31	\$21.00	\$0.00	\$0.00	\$0.00	\$327.00
SUTTON ST-02	OLD CLARK WAY	TERMINAL RD	149.01	30	97	Crack Seal	\$198.68	\$14.00	\$0.00	\$0.00	\$0.00	\$213.00
SUTTON ST-03	TERMINAL RD	SURREY DR	597.92	30	100	Crack Seal	\$797.23	\$56.00	\$0.00	\$0.00	\$0.00	\$853.00
SUTTON ST-04	SURREY DR	WEST RAMP RD	129.08	30	100	Crack Seal	\$172.11	\$12.00	\$0.00	\$0.00	\$0.00	\$184.00
SUTTON ST-05	WEST RAMP RD	METHUEN ST	552.42	30	100	Crack Seal	\$736.55	\$52.00	\$0.00	\$0.00	\$0.00	\$788.00
SUTTON ST-06	METHUEN ST	WOOD AVE	344.55	30	80	Crack Seal	\$459.40	\$32.00	\$0.00	\$0.00	\$0.00	\$492.00
SUTTON ST-07	WOOD AVE	WRIGHT AVE	328.89	30	96	Crack Seal	\$438.52	\$31.00	\$0.00	\$0.00	\$0.00	\$469.00
SUTTON ST-08	WRIGHT AVE	HIGH ST	472.04	30	94	Crack Seal	\$629.38	\$44.00	\$0.00	\$0.00	\$0.00	\$673.00
SUTTON ST-09	HIGH ST	GROSVENOR AVE	132.83	54	96	Crack Seal	\$318.79	\$22.00	\$0.00	\$0.00	\$0.00	\$341.00
SUTTON ST-10	COLUMBIA RD	THORNDIKE RD	540.34	54	93	Crack Seal	\$1,296.81	\$91.00	\$0.00	\$0.00	\$0.00	\$1,388.00
SUTTON ST-11	THORNDIKE RD	CHARLES ST	385.81	42	87	Crack Seal	\$720.18	\$50.00	\$0.00	\$0.00	\$0.00	\$771.00
SUTTON ST-12	CHARLES ST	PARKING LOT	139.04	42	93	Crack Seal	\$259.54	\$18.00	\$0.00	\$0.00	\$0.00	\$278.00
SUTTON ST-13	PARKING LOT	MAIN ST	626.92	42	90	Crack Seal	\$1,170.25	\$82.00	\$0.00	\$0.00	\$0.00	\$1,252.00
WILLOW RIDGE RD	BOSTON ST	CUL DE SAC	1286.67	28	100	Crack Seal	\$1,601.19	\$112.00	\$0.00	\$0.00	\$0.00	\$1,713.00
WOODBRIDGE RD	GREENE ST	DEAD END	625.03	26	100	Crack Seal	\$722.25	\$51.00	\$0.00	\$0.00	\$0.00	\$773.00
Project Totals			42,105.0				\$50,444.16	\$2,760.00	\$0.00	\$0.00	\$666.00	\$53,871.00
Project Name:	Boston Street											
BOSTON ST-01	TURNPIKE ST	EAST PASTURE CIR	1575.10	24	89	Level and Overlay	\$60,903.90	\$4,263.00	\$0.00	\$0.00	\$6,090.00	\$71,258.00
BOSTON ST-02	EAST PASTURE CIR	SULLIVAN ST	791.14	24	91	Level and Overlay	\$30,590.60	\$2,141.00	\$0.00	\$0.00	\$3,059.00	\$35,791.00
BOSTON ST-04	GRAY ST	OLD CART WAY	1822.92	24	87	Level and Overlay	\$70,486.31	\$4,934.00	\$0.00	\$0.00	\$7,049.00	\$82,469.00
Project Totals			4,189.16				\$161,980.80	\$11,338.00	\$0.00	\$0.00	\$16,198.00	\$189,518.00
Project Name:	BOXFORD STREET											
BOXFORD ST-04	STONECLEAVE RD	SHERWOOD DR	1185.02	28	76	Level and Overlay	\$53,457.37	\$3,742.00	\$0.00	\$0.00	\$5,346.00	\$62,545.00
BOXFORD ST-07	FOREST ST	SALEM ST	1090.98	28	73	Level and Overlay	\$49,215.22	\$3,445.00	\$0.00	\$0.00	\$4,922.00	\$57,582.00

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	Length (ft)	Width (ft)	RSR	Repair Method	Repair Estimate	Police Estimate	Sidewalk Estimate	Supplemental Estimate	Contingency Estimate	CIP Estimate		
Project Totals	2,275.99				\$102,672.59	\$7,187.00	\$0.00	\$0.00	\$10,268.00	\$120,127.00		
Project Name: GREAT POND ROAD												
GREAT POND RD-01	OSGOOD ST	BONNY LN	5648.14	29	74	Level and Overlay	\$263,893.5	\$18,473.00	\$0.00	\$0.00	\$26,389.00	\$308,755.00
GREAT POND RD-02	BONNY LN	COCHICHEWICK DR	382.87	29	78	Level and Overlay	\$17,888.60	\$1,252.00	\$0.00	\$0.00	\$1,789.00	\$20,930.00
GREAT POND RD-03	COCHICHEWICK DR	CAMPION RD	768.18	29	83	Level and Overlay	\$35,891.03	\$2,512.00	\$0.00	\$0.00	\$3,589.00	\$41,993.00
GREAT POND RD-06	DRIVEWAY #1116	ESSEX ST	952.44	29	71	Level and Overlay	\$44,500.01	\$3,115.00	\$0.00	\$0.00	\$4,450.00	\$52,065.00
Project Totals	7,751.63				\$362,173.15	\$25,352.00	\$0.00	\$0.00	\$36,217.00	\$423,743.00		
									Chapter 90 Total:	\$787,259.00		
Funding Source: Local Funds												
Project Name: BRUIN HILL ROAD												
BRUIN HILL RD	WINTER ST	CUL DE SAC	1508.83	25	37	Level and Overlay	\$60,772.41	\$608.00	\$0.00	\$0.00	\$3,039.00	\$64,419.00
Project Totals	1,508.83				\$60,772.41	\$608.00	\$0.00	\$0.00	\$3,039.00	\$64,419.00		
Project Name: HAY MEADOW ROAD												
HAY MEADOW RD-01	WINTER ST	DEER MEADOW RD	1956.86	26	46	Level and Overlay	\$81,970.77	\$5,738.00	\$0.00	\$0.00	\$8,197.00	\$95,906.00
HAY MEADOW RD-03	SAW MILL RD	WINTER ST	302.20	26	79	Level and Overlay	\$12,658.89	\$886.00	\$0.00	\$0.00	\$1,266.00	\$14,811.00
Project Totals	2,259.06				\$94,629.66	\$6,624.00	\$0.00	\$0.00	\$9,463.00	\$110,717.00		
Project Name: BRADFORD STREET												
BRADFORD ST-06	PAVEMENT CHANGE	CULVERT	1304.20	21	43	Reclamation	\$73,035.12	\$5,112.00	\$0.00	\$0.00	\$7,304.00	\$85,451.00
BRADFORD ST-07	CULVERT	GREAT POND RD	2597.12	21	39	Reclamation	\$145,438.9	\$10,181.00	\$0.00	\$0.00	\$14,544.00	\$170,164.00
Project Totals	3,901.32				\$218,474.09	\$15,293.00	\$0.00	\$0.00	\$21,848.00	\$255,615.00		
Project Name: TOLLAND ROAD												
TOLLAND RD	TURNPIKE ST	DEAD END	895.59	25	62	Reclamation	\$59,705.69	\$4,179.00	\$0.00	\$0.00	\$0.00	\$63,885.00
Project Totals	895.59				\$59,705.69	\$4,179.00	\$0.00	\$0.00	\$0.00	\$63,885.00		
									Local Funds Total:	\$494,636.00		
										Total: \$1,281,895.00		



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 2
Department: DPW Street & Sidewalks **Type:** Improvement
Project: Sidewalk Reconstruction FY 17 - FY 21 **Cost Basis:** Other
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Roadways/Sidewalks

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00	\$375,000.00

Funding Source	Funding Amount	Submitted by:
General Fund	\$325,000.00	Bruce Thibodeau
Other	\$50,000.00	Title: Director
Total	\$375,000.00	Date: 10/15/2015

Description

Reconstruct existing sidewalks in the older sections of Town with priority given to school areas and elderly housing areas. Attached is a list of priorities and costs based on the current sidewalk contractor pricing. Some funds will come from the Sidewalk Construction Special Revenue Fund, which is mitigation money provided by developers. The remainder is being requested from general fund CIP.

Justification

There are many locations where sidewalks have deteriorated because of age, frost heaving and encroachment of roots from trees planted adjacent to sidewalks. The program would eliminate the walking hazards of the uneven sidewalks. Costs are based on the current sidewalk construction contract.

Description of item to be replaced

Existing Town infrastructure see above.

Schedule for completion of project

All work will be done in the fiscal year of appropriation depending on weather conditions. Since three year construction contracts are existing no specifications or bidding is required. Once funds are available then estimates will be received from contractor, purchase orders prepared and work scheduled. Some sidewalk work will be done in the summer/fall construction schedule and other in the spring depending on impacts to school seasons or weather conditions.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$5,000.00

Explanation

Will Reduce patching and reduce claims.

Proposed Sidewalk Repair CIP FY 15

1. 138 High Street	200'	\$ 6,000
2. Second Street, #91 to Waverly St. (both sides)	800'	\$24,000
3. East Water Street, #47 to Clarendon (both sides)	1000'	\$30,000
4. Church, full length (even side)	500'	\$15,000

Total 2500'

Estimated Cost \$75,000.00



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 3
Department: DPW Fleet Maint **Type:** Replacement
Project: Equipment- Sweeper **Cost Basis:** Vendor Quote
Project Category: Equip (Rolling) **Asset Class:** Select One
Project Type: Vehicle/Equipment (including "General IT")

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$197,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$197,000.00

Funding Source	Funding Amount	Submitted by: Bruce Thibodeau
General Fund	\$197,000.00	Title: Division Director
Total	\$197,000.00	Date: 10/15/2015

Description

The proposed sweeper is the latest Elgin Pelican Sweeper, which is the model that municipalities use to meet the high volume of sweeping required in communities similar to North Andover.

Justification

The existing sweeper is a work horse in the division able to annually sweep entire town and respond to emergencies as well as the roadway improvement program. The existing piece of equipment is well beyond its useful life and requires between \$5,000 and \$10,000 of repair annually beyond the regular maintenance.

Description of item to be replaced

Existing 1994 Johnston Vehicle # 39

Schedule for completion of project

In year indicated.

Estimated value of replaced item: \$1.00

NET Estimated Annual Impact: \$10,000.00

Explanation

Reduce operating cost by reducing Repair and increasing efficiency with the new high volume equipment.



October 9, 2015

Town of North Andover
Attn: John Lavin

978-476-2913
978-685-0950 X44023

jlavin@townofnorthandover.com

Please find below a quote for **Elgin Pelican Street Sweeper** per the Plymouth County, Cooperative Procurement Contract. PC-15 M.G.L. c.30B applies to the procurement of all commodities quoted. Plymouth County contract items have been collectively purchased pursuant to M.G.L. c 30B sec. 1c and M.G.L. c.7 sec. 22B. The governmental body is responsible to determine the applicability of M.G.L. c 30B to off contract items, including, but not limited to off contract items that have already been properly procured under M.G.L. c 30B sec. 1c and M.G.L. c. 7 sec. 22A (purchases from a vendor on a contract with the Commonwealth), other contracts procured under M.G.L. c 30B sec 1c and M.G.L. c.7 sec. 22B, or any M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be procured under M.G.L. c. 30B.

15-34	2015 Elgin Pelican Street Sweeper	\$ 192,489.00
	Color: White	Incl.
	Air Conditioning	Incl.
	Dual Gutter Brooms	Incl.
	Auto-Lube System	Incl.
	AM/FM radio	Incl.
	Air Ride Seat	Incl.
	Rear View Camera System	Incl.
	Amber Strobe Beacon with guard	Incl.
	Spare drive wheel & tire (front)	1,495.00
	Spare guide wheel & tire (rear)	1,295.00
	Lower Roller Washout	1,200.00
	1st Aid Kit	35.00
	2 1/2 Lb. Fire Extinguisher	30.00
	Reflective Triangle Kit	25.00
	Chock Blocks	25.00

Contract Total: \$ 196,594.00

Sincerely,

Jay Matisko
Account Manager



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 4
Department: DPW Street & Sidewalks **Type:** Improvement
Project: Water & High St. Intersection and Streetscape Improvements FY 17 **Cost Basis:** Arct/Eng
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Roadways/Sidewalks

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$350,000.00	\$475,000.00	\$0.00	\$0.00	\$0.00	\$825,000.00

Funding Source	Funding Amount	Submitted by: Bruce Thibodeau
General Fund	\$825,000.00	Title: Director
Total	\$825,000.00	Date: 10/15/2015

Description

The work being proposed in coming fiscal years under the project is the final design and construction phase for intersection improvements streetscape improvements from the Main Street intersection through and including the Elm/High/Water Street intersection. The project scope is approximately 1300 feet beginning at the recently completed improvements at Main Street. A special study area is the above mentioned intersection. Traffic operations have been evaluated, including historical accident occurrences, signal warrants, sight distances and/or possible vertical and horizontal alignment modifications. A Public Input and Information Meeting was held in the spring of 2014 and comments included in the preliminary design plans. Funds being sought for FY 17 will be to construct the intersection improvements. Funds for the streetscape improvements will be sought for FY 18.

Justification

The intersection of Water, Elm, and High Street is one of the busiest in Town; particularly now with the residential, retail, and commercial development in the surrounding area. The site distances and grades at the intersection are poor and either cause accidents or near misses on a regular basis during inclement weather or commuter time. Pedestrian mobility, particularly by handicapped users, is very poor through the intersection. The roadway, sidewalks, and streetscape in this important historic area are in disrepair and could use an upgrade for both aesthetic and safety reasons. Finally, it will complete the final piece of the Machine Shop Village, Mill Complex, Main Street upgrades that have occurred over the past few years that have enhanced the downtown area.

Description of item to be replaced

Existing antiquated roadway, sidewalks, curbing, and handicap ramps.

Schedule for completion of project

The project is 75% designed. If successful and funds are available on July 1, 2016. The intersection improvement project will be bid in July of 2016 and construction completed in the spring of 2017. If successful in FY 18 then the streetscape improvements will be done in 2017/2018.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$1,000.00

Explanation

The project will improve public safety and aesthetics.



ENGINEERING SUCCESS **TOGETHER**

October 23, 2015

Bruce D. Thibodeau, PE, Director
Division of Public Works
384 Osgood Street
North Andover, MA 01845

**RE: Water Street Intersection Improvements
Water Street/High Street/Elm Street**

Dear Mr. Thibodeau:

Attached is our estimate of design fees and construction costs associated with the referenced project. A brief description of the project limits and required work effort is provided below.

The PROJECT involves: the engineering of the intersection improvements; the rehabilitation of the roadway pavement; reconstruction of sidewalks and ADA compliant wheelchair ramps; installation of curb; project-related modifications to drainage facilities; as well as signing and pavement markings. The PROJECT will investigate profile modifications on the approaches to the intersection of Elm Street and Water Street as a means of improving sight distance.

Impacts to the recently completed Water Street sidewalks will be minimized where possible.

The Project costs include final design, easements, survey, construction and part-time construction services. The estimated fee for these services is approximately \$350,000.

Please call me with any questions or comments regarding this work effort.

Very Truly Yours,
BETA Group, Inc.

A handwritten signature in black ink, appearing to read 'Kenneth Petraglia', is written over the typed name.

Kenneth Petraglia, PE, PTOE
Vice President



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works	Priority: 5
Department: DPW Fleet Maint	Type: Replacement
Project: Equipment - 6 Wheel Dump Truck	Cost Basis: Vendor Quote
Project Category: Equip (Rolling)	Asset Class: Select One
Project Type: Vehicle/Equipment (including "General IT")	

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$185,000.00	\$0.00	\$200,000.00	\$0.00	\$200,000.00	\$585,000.00

Funding Source	Funding Amount	Submitted by:
General Fund	\$185,000.00	Bruce Thibodeau
General Fund	\$400,000.00	Title: Director
Total \$585,000.00		Date: 10/19/2015

Description

New 6-wheel Dump Truck to replace an existing Dump Truck. It will also be used as a plowing and de-icing during snow removal operations. The spreader and controls are included in the request.

Justification

The vehicle that this will replace is 20 years old and well beyond it's useful life. This is a versatile piece of equipment with a removable spreader which will allow the Department to use the vehicle for many different tasks by such as a dump truck when not being used on snow and ice removal.

Description of item to be replaced

Truck #35 a 1995 Chevrolet Kodiak

Schedule for completion of project

Estimated value of replaced item: \$100.00

NET Estimated Annual Impact: \$1.00

Explanation

Repair and maintenance of truck occurs frequently. Lost time due to breakdowns will be reduced with the new truck.

Minuteman Trucks, Inc.

2181 Providence Hwy. * Walpole, MA 02081
508.668.3112 * www.MinutemanTrucks.com * 800.225.4808

Presented in accordance with Greater Boston Police Council Cooperative Procurement Program/MAPC.
Pricing valid through: October 31, 2014 Current contract available upon request.

Page 1 of 1

Town Of North Andover 2017 7400 Snow Fighter
 Bruce D. Thibodeau DATE October 16, 2015
 384 Osgood St
 North Andover, MA 01845

Based on our previous discussions, I have prepared the following proposal for your review.

Option ID	Description	Unit Price
CONTRACT ITEMS - Truck		
BASE UNIT:	Current Model Year International Model 7400 4x2 HD Truck	\$ 75,484.00
CONTRACT ITEMS - Equipment		
205	Navistar N9 300 HP Upgrade 7400	\$ 5,505.00
235	14,000 lb. front axle with 12R22.5 - 16 PR tires	\$ 1,351.00
257	31,000lb Rear suspension ILO 23,500	\$ 369.00
261	Air Conditioning	\$ 823.00
262	Inside/Outside Engine Air-Intake within Cab Control	\$ 334.00
264	Seating: Passenger Side Suspension High-Back	\$ 232.00
266	Arm Rest Drivers Seat	\$ 39.00
267	Aluminum Air Tanks	\$ 252.00
275	Driver Controlled Locking Differential	\$ 1,005.00
276	Automatic Traction contro - Air Brakes	\$ 210.00
278	Trailer Brake Connections - Electric	\$ 420.00
279	Body Circuit Switches "six pack "	\$ 575.00
285	Custom Paint Color	\$ 389.00
288	Heavy Duty .472" Hub Piloted Disc Wheels Front Axle	\$ 192.00
289	Heavy Duty .472" Hub Piloted Disc Wheels Rear Axle	\$ 311.00
290	Powder Coated Wheels	\$ 72.00
294	Cowl Tray Lid	\$ 204.00
295	Bug Screen/Ember Screen	\$ 195.00
296	Hood Convex Mirrors	\$ 194.00
298	Corrosion Resistant Primer Coating for Single Rails	\$ 1,000.00
328	Plate Mounted T-90 Pintle Hook	\$ 900.00
386	Custom Fabricated Tailgate Asphalt Door Qty 3	\$ 1,800.00
398	Transmission Mounted central Hydraulics	\$ 6,500.00
400	Low Hydraulic Fluid Alarm/Shutoff	\$ 1,000.00
403	10' 6-8 Yard dump body	\$ 12,500.00
410	Coal Doors Qty 3	\$ 1,800.00
411	Air Operated Tailgate	\$ 700.00
416	Electric Fully Automatic Load Cover	\$ 2,600.00
420	Side Boards 2" x 10" Oak	\$ 500.00
427	Upgrade Dump body to Hardox Steel 11ft BiBeau	\$ 3,700.00
437	Heavy Duty Plow Frame -Everest	\$ 7,500.00
445	Heavy Duty 11' "Vortex" Snow Plow	\$ 11,700.00
448	Power Reverse Hydraulics with Controls	\$ 1,100.00
448	Dual Grip Strut catwalks with access steps Qty 2	\$ 2,800.00
466	10ft Spreader - 11" Hi Way E-2020 XT Spreader	\$ 11,500.00
469	Stainless Steel Spreader Upgrade for 10ft Spreader	\$ 5,000.00
471	Manual Spreader Fluid Controls - (2FFL)	\$ 2,500.00
475	Sander Spill Shields - Stainless Front	\$ 900.00
477	Stainless Steel Rear Spill Shield	\$ 800.00
478	4" Flood Light for Spreader - Qty (2)	\$ 400.00
506	Electronic Spreader Control - Saltmiser SM-1	\$ 4,000.00
594	LED Strobe System Recessed LED Flashers	\$ 2,800.00
601	Small Sander Mounted Stainless Light Bar	\$ 1,400.00
x	Stationary Legs for Spreader - Stainless	\$ 2,650.00
x	Install Two Way Radio by Riemitis	\$ 1,000.00
Subtotal of Contract Items		\$ 177,206.00
OPTIONS NOT INCLUDED		
Note: 2016 GBPC contract increase of 2 %		\$ 3,544.12
Total Including All Options		\$ 180,750.12
PO Total Required		\$ 180,750.12

NOTE:

Municipality: North Andover DPW	Auth Signature _____
	Name _____

	Auth Signature _____
Minuteman Trucks, Inc.	PO #: _____
TEL:	
EMAIL:	



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 7
Department: DPW Fleet Maint **Type:** Replacement
Project: Equipment- Backhoe **Cost Basis:** Previous Purchase
Project Category: Equip (Rolling) **Asset Class:** Select One
Project Type: Vehicle/Equipment (including "General IT")

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$95,000.00	\$0.00	\$0.00	\$95,000.00

Funding Source	Funding Amount	Submitted by: Bruce Thibodeau
General Fund	\$95,000.00	Title: Director
Total	\$95,000.00	Date: 10/19/2015

Description

Back hoe for various DPW tasks.

Justification

To assure a safe dependable, well maintained, professional appearing fleet of vehicles to perform municipal tasks. Having a good vehicle program is not to be replacing vehicles only when they are no longer useful. Vehicles should be purchased yearly to replace older vehicles in the fleet. The useful life of a vehicle should be ten years. Some vehicles that are not used on a constant basis can last up to 15 years or more.

Description of item to be replaced

Replace backhoe, vehicle # 62

Schedule for completion of project

Year indicated

Estimated value of replaced item: \$1.00

NET Estimated Annual Impact: \$1.00

Explanation

Repair costs and down time when in shop.



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Community Services	Priority: 1
Department: Senior Center	Type: Replacement
Project: Replacement vehicle	Cost Basis: Vendor Quote
Project Category: Equip (Rolling)	Asset Class: Class 1
Project Type: Vehicle/Equipment (including "General IT")	

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$52,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$52,000.00

Funding Source	Funding Amount	Submitted by: Irene O'Brien
General Fund	\$52,000.00	Title: Elder Service Director
	Total \$52,000.00	Date: 10/19/2015

Description

To replace 2006 Ford E 450 Cutway Mini Bus with a new vehicle. Current vehicle (9) years old. Has extensive rust on the undercarriage, numerous electrical issues and the heating and cooling does not work effectively.

Justification

North Andover DPW mechanics provided the following information; undercarriage of vehicle has extended rust, numerous electrical issues, heating and cooling systems are covered with condensation and rust, numerous safety concerns. By replacing the existing van we can assure the safety of our older adult passengers through the year. The current vehicle has broken down on several occasions. We have had to borrow a vehicle to get folks home safely.

Description of item to be replaced

The 2006 Ford E350 13 ambulatory passenger mini bus was purchased through a transportation grant with the support of the Friends of the North Andover Senior Center in 2005. Because of its seating capacity it is our primary van for many of our programs. In addition we have a 2011 van which is a leased vehicle from the MVRTA. This van will carry six ambulatory passengers and two wheel chairs. Because of a safety and weight issue one seat was removed from the vehicle. By trading in the 2006 van we would be gaining a streamer lined model van which will carry fourteen ambulatory older adults. For many of our programs both vans are out on the road at the same time. The new vehicle will enhance our existing transport for older adults.

Schedule for completion of project

Once the funds are approved it will take approximately 2 months to order and receive the van.

Estimated value of replaced item: \$5,500.00

NET Estimated Annual Impact: \$51,977.00

Explanation

An additional \$5,500 trade in value has been offered toward the purchase of the new van by the vendor.



*** Continued From Page 1 ***

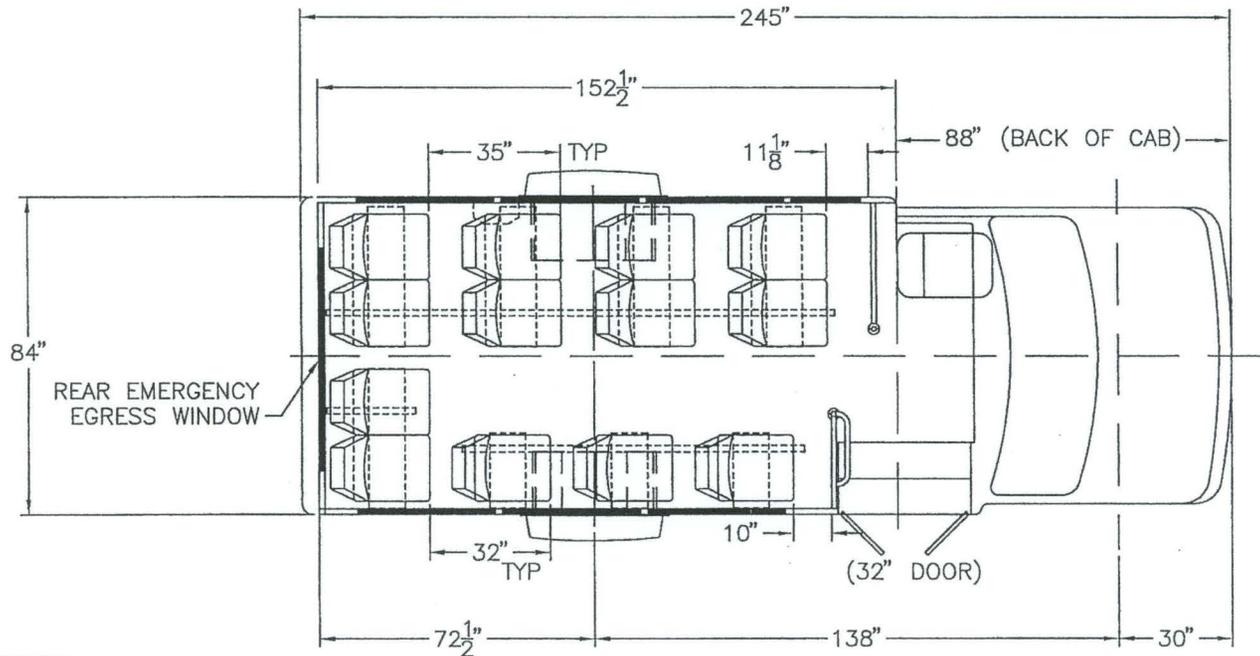
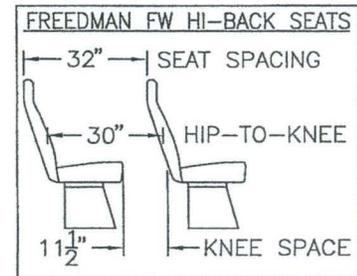
3.01	Mini Bus Package - (14 passenger capacity) Elkhart Coach Transit Style body or equal. Base Unit shall include: dual panel manual entrance doors, tinted T-slide windows, 35,000 BTU rear heater, 36,000 BTU rear AC with compressor, impact absorbing transit style bumpers, backup alarm, driveshaft guards, exhaust heat shields, break-a-way style mirrors with convex, modesty panels (both sides), fabric headliner & FRP walls, high back vinyl driver's seat, individually contoured passenger seats, RCA transit rubber flooring over marine grade plywood subfloor, optic yellow step nosings, white body exterior.	24,395.00
4.08	Running Board Step	204.00
4.09	Front Mud Flaps	36.00
12.01	AM/FM/CD stereo with 4 speakers, 2 front / 2rear	264.00
5.01	Upgrade A/C System from 36K to 48K BTU	500.00
5.07	Upgrade Heating System to 65k BTU Heater	107.00
6.01	Electric Double Entrance doors	430.00
9.13	Seat Belt Retractable \$54.00 X 14	756.00
9.14	Arm Rest Folding Rubber \$27 X 7	189.00
9.15	Seat Grab handle \$29 X 7	203.00
11.01	Grab Rails on Entrance Step	142.00
13.01	Composite Exterior / Corrosion Resistant	524.00
14.02	4' Light rear of entry	48.00
14.03	Center Brake Light	67.00
Contract Total :		\$51,977.00
Trade In :		(5,500.00)
Total w/ trade		\$46,477.00

Sincerely,

Jay Matisko
Account Manager

FEATURES:

- 36" x 36" TOP T-SLIDER WINDOWS (18" FILLER)



TOLERANCES
 FLOORPLAN DIMS: +/- 1/8"
 FRACTIONAL DIMS: +/- 1/16"
 2 PLACE DECIMAL DIMS: +/- .01"
 3 PLACE DECIMAL DIMS: +/- .005"

AVAILABLE ALSO ON E350 5.4G & 6.0D CHASSIS.

SHOWN ON HIGH PROFILE; AVAILABLE ALSO ON LOW PROFILE.

THE SUPREME CORP. CLAIMS PROPRIETARY RIGHTS IN THE MATERIAL DISCLOSED HEREON. NEITHER THIS DRAWING NOR ANY REPRODUCTION THEREOF MAY BE USED TO MANUFACTURE ANYTHING SHOWN HEREON WITHOUT PERMISSION IN WRITING FROM SUPREME CORP. TO THE USER SPECIFICALLY REFERRING TO THE DRAWING.

WAW=OK (GVWR 10,700)

		BY	DRAWN	<p>STARTRANS TRANSIT BUS DIVISION GOSHEN, IN 46526</p>	MODEL: FORD E350 6.8G	TITLE (OR COMMENTS): 13 PASSENGERS	PART NUMBER: QUOTE
		DATE	5/22/06		DWG SCALE: 3/8"=1'	SERIES: CANDIDATE II	FILE LOC & FILE NUMBER: C2 HP E350 13P
LET.	REVISION DESCRIPTION	BY	DATE				

EC-II

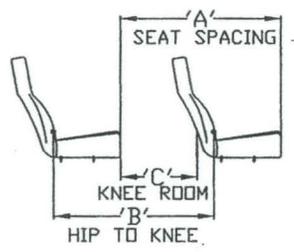
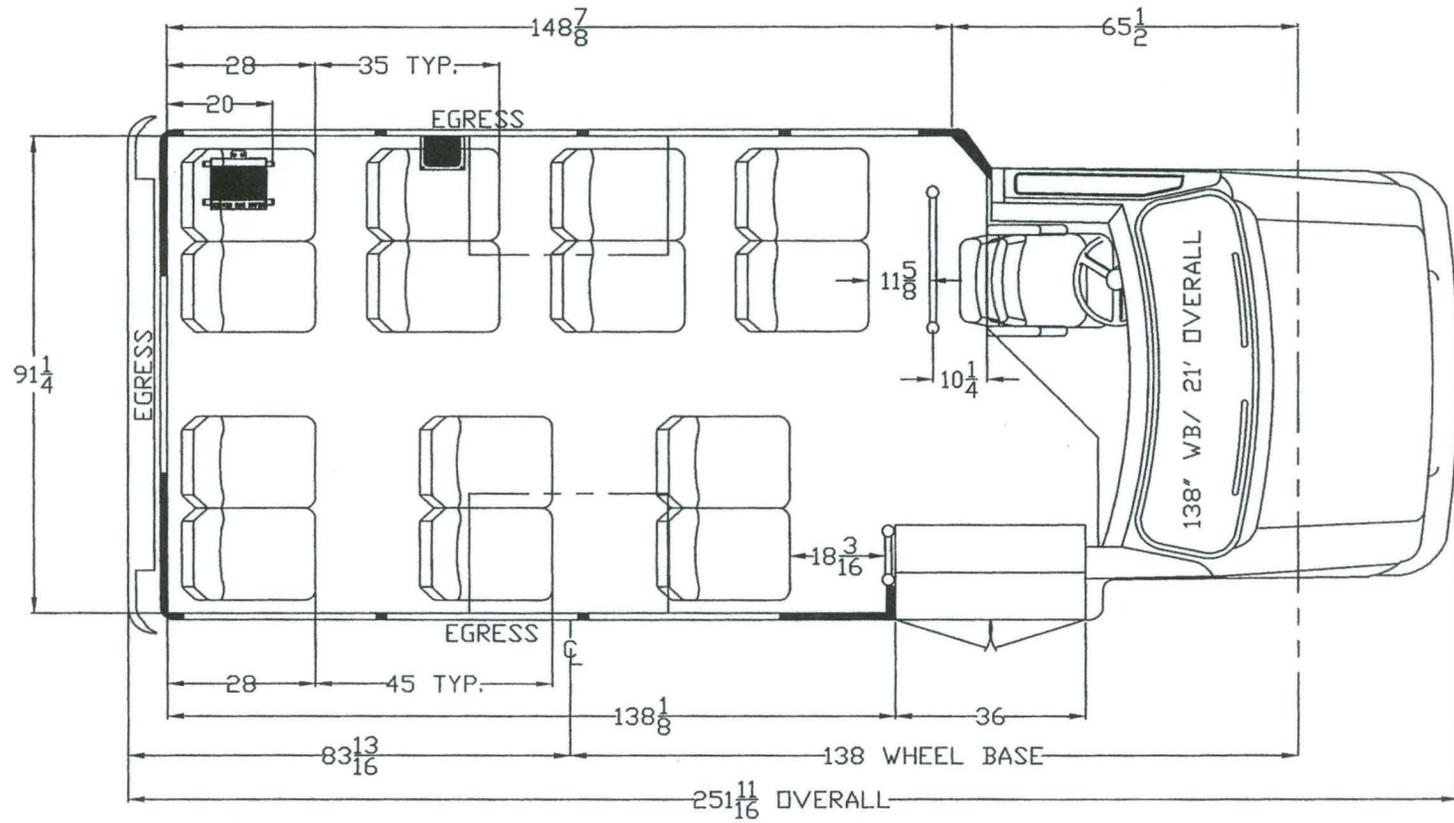
Proudly built by Elkhart Coach



Elkhart Coach

A DIVISION OF FOREST RIVER

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
-	-	-	-	-	-	-	-	-	-	-	-



SEAT STYLE	SEAT SPACING 'A'	HIP-TO-KNEE 'B'	KNEE ROOM 'C'
LD BACK	35"	31"	15"
LD BACK	45"	41"	25"

DEALER SIGNATURE: _____

QUOTE: Q-42-030806-01

DO NOT SCALE	PROJECTION ⊙	DESCRIPTION Floor plan ECCW 138-252 all passenger standard floor 14P/138/252 W.I. NUMBER	REFERENCE NONE	ELKHART COACH 52948 GLENVIEW DR ELKHART, INDIANA 46514 A DIVISION OF FOREST RIVER		
	SIZE A	THIS DRAWING AND THE INFORMATION CONTAINED THEREIN ARE THE EXCLUSIVE PROPERTY OF ELKHART COACH. IT SHALL NOT BE COPIED OR DUPLICATED IN ANY MANNER, NOR SHALL IT BE SUBMITTED TO OUTSIDE PARTIES FOR EXAMINATION WITHOUT OUR WRITTEN CONSENT. IT IS LOANED FOR USE WITH REFERENCE TO WORK UNDER CONTRACT WITH, OR PROPOSALS SUBMITTED TO ELKHART COACH.	TOLERANCES ±1/16 ANGLE ±1° UNLESS OTHERWISE SPECIFIED			
NO WORK INSTRUCTIONS AVAILABLE				DRAWN: BMP	DATE: 03-09-06	PART NUMBER 900-12-0007
				CHECKED: CHK	DATE: DATE	REV. A

FORD EC-II STANDARDS AND OPTIONS

STANDARD CHASSIS FEATURES

- Ford E-450 & E-350 DRW Cut-Away Chassis
- Electronic 5-Speed Automatic Transmission
- 55 or 40 Gallon Fuel Tank
- Ford V-10 6.8L Gas Engine
- Ford V-8 5.4L Gas Engine
- OEM Installed Dash Air Conditioning & Heat
- 225 or 155 Amp Alternator
- 138", 158", 176", 186" or 190" Wheelbases
- Heavy Duty Engine Cooling Package
- Chrome Front Bumper & Grill
- 14,500, 12,500 & 11,500 GVWR
- Dual Electric Horns
- Driver Air Bag
- Heavy Duty Suspension
- Power Steering/Brakes
- LT225 / 75RX16E Tires
- Dual 650 CCA Batteries
- Tilt Steering Wheel/Cruise Control
- Dual Beam Headlights

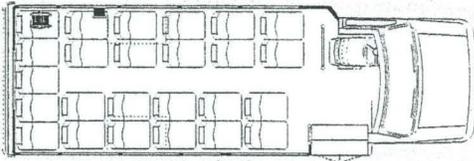
STANDARD BODY FEATURES

- FMVSS Certified
- STURAA Tested for 7 Years/200,000 Miles
- Insulated Roof & Exterior Walls
- Mor-View Right Side Cab Window
- Smooth Rubber Floor w/ Ribbed-Rubber Aisles
- Rear ABS Fender Flares
- Powder Coated Rear Steel Bumper

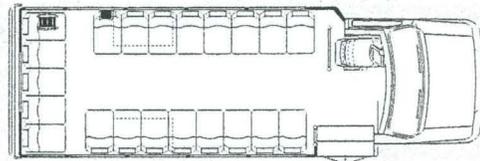
- Rear Mud Flaps
- Entrance Door & Driver Modesty Panels
- All Aluminum Sidewalls and Skirts
- Dual Drive Shaft Guards
- Entry Door Assist Handles
- Fully Welded Unitized Steel Cage Body Structure
- Undercoating
- Swing-A-Way Exterior Flat Mirrors with Integrated Convex Panels
- Drip Rail Over Passenger Windows & Entry Doors
- White or Yellow Step Nosing – All Entry Steps
- Color/Function Coded Wiring Harness
- Laminated Steel Reinforced Composite Construction
- Master Electronic Printed Circuit Control Panel
- Emergency Side Egress Windows
- Stylized ABS Rear Trim
- 91" Interior Width & 77" Headroom
- Large 36" x 36" & 24" x 36" Upper T-Slider Windows
- 22" x 64" Rear Egress Window
- Single Piece Seamless FRP Roof
- Smooth FRP Interior Walls
- FRP Ceiling

POPULAR OPTIONS

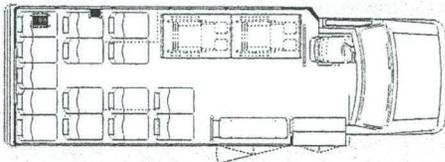
- Rear Heat System
- Front and Side Destination Signs
- Mor/Ryde Suspension
- Individual Reading Lights
- Spare Tire & Wheel
- Interior Luggage Rack
- Interior Convex Mirror
- Back-Up Alarm
- Overhead Luggage Racks
- Exterior Rear Center Mount Brake Light
- Rear Luggage Compartment
- Ceiling Grab Rails
- AM/FM Radio w/ CD Player
- "Flat Floor" (No Wheel Well Risers)
- DVD Player w/ Flip Down Monitor
- Heated/Remote Exterior Mirrors
- High-Back or Mid-High Seats with Armrests
- Front Mud Flaps
- Ground Plane For Two-Way Radio Installation
- Paging System
- Rear Emergency Door with Ajar Package
- LED Interior & Exterior Lighting
- Rear A/C System
- Roof Escape Hatch
- Stainless Steel Wheel Inserts
- ADA Mobility Compliance Package
- All FRP Exterior
- Driver Running Board
- Electric Entry Door



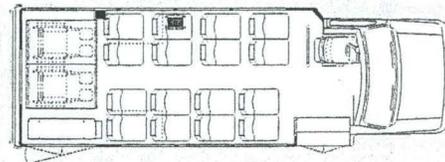
25 Passenger - Forward Facing Seating



21 Passenger Perimeter Seating



15 Passenger - 2 Wheelchairs - Front Lift



16 Passenger - 2 Wheelchairs - Rear Lift



YOUR DEALER



www.matthewsbuses.com 800-288-6287

Forest River, Inc. 55470 C.R. 1 Elkhart, IN 46515-3030
574.389.4600 www.forestriverinc.com www.forestriveraccessories.com

Due to constant product improvements, specifications, component parts and optional equipment are subject to change without notice or obligation. See your dealer for details.



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Administration **Priority:** 1
Department: Selectmen/Manager **Type:** New
Project: Facility Master Plan Implementation (FY17-FY19) **Cost Basis:** Arct/Eng
Project Category: Building **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$4,620,885.00	\$1,957,500.00	\$4,316,000.00	\$0.00	\$0.00	\$10,894,385.00

Funding Source	Funding Amount	Submitted by: Andrew Maylor
General Fund	\$4,620,885.00	Title: Town Manager
Total	\$4,620,885.00	Date: 11/03/2015

Description

FY17
 \$4,455,885 - construction costs for improvements to Public Works offices and garage site
 \$165,000 - architect services for renovation/expansion of school classrooms
 FY18
 \$1,485,000 - construction costs for renovation/expansion of school classrooms
 \$472,500 - OPM and architect services for expansion of Senior Center
 FY19
 \$4,316,000 - construction costs for expansion of Senior Center

Justification

Facility Master Plan previously approved and adopted by Annual Town Meeting

Description of item to be replaced

Schedule for completion of project

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Administration	Priority: 2
Department: Selectmen/Manager	Type: Replacement
Project: Playgrounds Improvements (townwide)	Cost Basis: Other
Project Category: Infrastructure	Asset Class: Select One
Project Type: Vehicle/Equipment (including "General IT")	

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$250,000.00

Funding Source	Funding Amount	Submitted by: Andrew Maylor
General Fund	\$250,000.00	Title: Town Manager
	Total \$250,000.00	Date: 12/03/2015

Description	Justification
As part of a Master Plan, the Town is committed to spending \$50,000 in capital expenditures for longer term improvements each year to townwide playgrounds.	

Description of item to be replaced	Schedule for completion of project
Estimated value of replaced item: \$0.00	
NET Estimated Annual Impact: \$0.00	

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Administration	Priority: 3
Department: Selectmen/Manager	Type: Improvement
Project: Facilities Master Plan II	Cost Basis: Other
Project Category: Infrastructure	Asset Class: Select One
Project Type: Consultant/Study	

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$100,000.00	\$250,000.00	\$350,000.00

Funding Source	Funding Amount	Submitted by: Andrew Maylor
General Fund	\$350,000.00	Title: Town Manager
Total	\$350,000.00	Date: 12/03/2015

Description

Justification

Description of item to be replaced

Schedule for completion of project

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Fire **Priority:** 1
Department: Fire **Type:** Replacement
Project: Integrated Public Safety Reporting System **Cost Basis:** Vendor Quote
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Vehicle/Equipment (including "General IT")

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$208,875.00	\$0.00	\$0.00	\$0.00	\$0.00	\$208,875.00

Funding Source	Funding Amount	Submitted by:
General Fund	\$208,875.00	Andrew Melnikas
Total	\$208,875.00	Title: Fire Chief
		Date: 10/20/2015

Description

This proposal is to replace the current Computer Aided Dispatch and Records Management system (Pamet) with a fully integrated system (IMC), adding significant functionality and eliminating several additional applications currently in place. This proposal comes after careful analysis and with the recommendation of the Fire, Police, and IT Departments.

Justification

The current system does not fully meet the needs of Public Safety, with several add-on applications required to meet those needs along with significant, redundant data entry. The current system is a proprietary system, making integration with other applications difficult. One of the added benefits of this system is that it interfaces well with the Munis System.

Description of item to be replaced

Comprehensive, integrated, Computer Aided Dispatch and Records Management system.

Schedule for completion of project

Purchase: July 2016;
 data conversion, training, etc.. thru December, 2016;
 fully live January, 2017.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$14,887.00

Explanation

Software maintenance costs, existing systems: \$31,267

Software maintenance cost, proposed system: \$18,102

Savings: \$13,165

Proposal/Sales Quotation	
Quotation Q-00014210	Quotation Date: 9/16/2015

General & Client Information	
Agency Name: North Andover Police Department System Description: North Andover PD / MAP / MOB / ADMIN Client Contact: Christopher McClure Contact Phone: (978) 380-1011 Contact Email: cmcclure@townofnorthandover.com Expiration Date: Quote Valid for 180 Days Presented By: Dennis Noe	Bill To: North Andover Police Department 1475 Osgood Street North Andover MA 02780 Ship To: 1475 Osgood Street North Andover MA 01845

Project Products & Services

Perform CAD System

Perform CAD Software	Unit Price	Qty	Total Price
ANI/ALI e911 Server 1-5 Users	\$2,500.00	1	\$2,500.00
CAD Call Taking/Dispatching Client	\$2,000.00	3	\$6,000.00
CAD Query and Reporting	\$500.00	2	\$1,000.00
CAD Server Police 1-5 Users	\$2,500.00	1	\$2,500.00
False Alarm Billing 1-5 Users	\$1,000.00	1	\$1,000.00

Perform CAD Services	Unit Price	Qty	Total Price
CAD-Police/Fire/EMS Database Training Up to 6	\$1,200.00	3	\$3,600.00
CAD-Police/Fire/EMS Dispatch Train-the-Trainer On-site Up to 12	\$1,500.00	2	\$3,000.00

Perform CAD Services Subtotal: \$6,600.00

Perform CAD System Total: **\$19,600.00**

Perform Mobile System

Perform Mobile Software	Unit Price	Qty	Total Price
Law Message Server 6-10 Users	\$5,000.00	1	\$5,000.00
Mobile / Law Field Based Reporting Clients	\$1,250.00	7	\$8,750.00
Mobile Voice Option	\$2,000.00	1	\$2,000.00
NCIC/State Query Interface 6-10 Users	\$5,000.00	1	\$5,000.00

Perform Mobile Services	Unit Price	Qty	Total Price
Mobile Law Train-the-Trainer On-site Up to 12	\$1,500.00	1	\$1,500.00

Perform Mobile Services Subtotal: **\$1,500.00**

Perform Mobile System Total: **\$22,250.00**

Perform Law Records System

Perform Law Records Software	Unit Price	Qty	Total Price
Bar Coding Police Property 1-10 Users	\$2,500.00	1	\$2,500.00
Fingerprint Interface 1-10 Users	\$2,500.00	1	\$2,500.00
Hunter Systems Booking Camera Interface	\$500.00	1	\$500.00
Law Imaging and Photo Lineup 1-10 Users	\$1,250.00	1	\$1,250.00
Law Records Client	\$1,000.00	8	\$8,000.00
Law Records Server 1-10 Users	\$2,500.00	1	\$2,500.00
RISS.Net interface NESPIN/RMIN	\$0.00	1	\$0.00

Perform Law Records Services	Unit Price	Qty	Total Price
Officer Report Writing Training On-site Up to 12	\$1,500.00	2	\$3,000.00
Police Records Train-the-Trainer On-site Up to 12	\$1,500.00	4	\$6,000.00

Perform Law Records Services Subtotal: **\$9,000.00**

Perform Law Records System Total: **\$26,250.00**

Perform Admin System

Perform Fire Records System Software	Unit Price	Qty	Total Price
Law Admin Server 1-5 Users	\$1,000.00	1	\$1,000.00
Police Admin Client	\$500.00	4	\$2,000.00

Perform Fire Records System Services	Unit Price	Qty	Total Price
Admin Train-the-Trainer On-site Up to 12	\$1,500.00	2	\$3,000.00

Perform Admin Services Subtotal: **\$3,000.00**

Perform Admin System Total: **\$6,000.00**

Projected Related Fee(s)

Product Name	Unit Price	Qty	Total Price
Google Mobile Client	\$250.00	7	\$1,750.00
Installation-On Site	\$1,500.00	1	\$1,500.00
Mapping - Google Based 1-5 Users	\$2,500.00	1	\$2,500.00
ODBC Data Dictionary Files (DDF's)	\$1,000.00	1	\$1,000.00

Portable Classroom Setup/Use/Takedown Per Trip	\$600.00	5	\$3,000.00
Project Management	\$2,500.00	1	\$2,500.00
Refresher Training On-Site	\$1,500.00	4	\$6,000.00

Project Related Fee(s) Total: \$18,250.00

Third Party Products and/or Services

Product Name	Unit Price	Qty	Total Price
Pervasive 20 Concurrent User Database	\$3,795.00	1	\$3,795.00
Pervasive Workgroup License	\$135.00	17	\$2,295.00

Third Party Products and/or Services Total: \$6,090.00

Annual Maintenance Fee(s) (Year 1)

Product Name	Support level	Total Price
ANI/ALI e911 Server 1-5 Users	Perform	\$450.00
Bar Coding Police Property 1-10 Users	Perform	\$450.00
CAD Call Taking/Dispatching Client	Perform	\$1,080.00
CAD Query and Reporting	Perform	\$180.00
CAD Server Police 1-5 Users	Perform	\$450.00
False Alarm Billing 1-5 Users	Perform	\$180.00
Fingerprint Interface 1-10 Users	Perform	\$450.00
Google Mobile Client	Perform	\$315.00
Hunter Systems Booking Camera Interface	Perform	\$90.00
Law Admin Server 1-5 Users	Perform	\$180.00
Law Imaging and Photo Lineup 1-10 Users	Perform	\$225.00
Law Message Server 6-10 Users	Perform	\$900.00
Law Records Client	Perform	\$1,440.00
Law Records Server 1-10 Users	Perform	\$450.00
Mapping - Google Based 1-5 Users	Perform	\$450.00
Mobile / Law Field Based Reporting Clients	Perform	\$1,575.00
Mobile Voice Option	Perform	\$360.00
NCIC/State Query Interface 6-10 Users	Perform	\$900.00
ODBC Data Dictionary Files (DDF's)	Perform	\$180.00
Pervasive 20 Concurrent User Database - Support		\$948.75
Police Admin Client	Perform	\$360.00

Annual Maintenance Fee(s) (Year 1) Total: \$11,613.75

Project Total: \$110,053.75

Estimated Sales Tax:
(State: at %)

Taxable sales: \$0.00

Subtotal: \$110,053.75

Sales Tax Amount: \$0.00

Quote Total: \$110,053.75

Summary Information & Project Notes

The project management services included with this quotation, if any, will be considered completed upon client Go-live, unless otherwise stated. Training class size is up to 6 students for database training. All other training listed is up to 12 students. The training quoted is to be held at Perform unless On-site is referenced in the above item description section.

Training for this project has been requested to take place in the town of North Andover, with the exception of database training. North Andover will be required to reimburse TriTech for training expenses incurred by the assigned trainer provided the trainer stays overnight. Expenses will be billed at the actual amount governed by rates identified in state contract ITS 58 guidelines. The Hunter Booking Camera interface in this quote is for the Perform software. You must contact Hunter to purchase the actual camera and to determine their cost to integrate with Perform. The CrossMatch fingerprint interface is for the Perform software only. You must contact CrossMatch to determine their cost to integrate with Perform.

Terms and Conditions

Payment terms are as follows:

All invoices are due Net 30 days from the invoice date unless otherwise specified in this quote.

The software will be invoiced upon software delivery.

The training will be invoiced upon the completion of the first scheduled training class.

The installation will be invoiced upon service completion.

The support will be invoiced upon the earlier of: go-live or 180 days after installation.

The data extraction will be invoiced 50% upon quote acceptance and 50% upon 1st extraction before database training.

The software modifications will be invoiced 50% upon quote acceptance and 50% upon software modification delivery.

The installation services will be invoiced upon service completion.

The service fee for the portable classroom will be invoiced upon the completion of the first training class.

The project management will be invoiced 50% upon quote acceptance and 50% upon go live.

The data conversion will be invoiced 50% upon quote acceptance and 50% upon post Go-Live delivery.

Software License Terms:

Installing and using the TriTech Perform software application(s) signifies acceptance of the terms and conditions of the End User License Agreement that accompanies the Software.

Software fees shall be invoiced in full upon delivery, which is defined as the earliest of the dates the software is either: a) delivered on a CD by a TriTech consultant, b) downloaded or installed to a computer at client location (remotely or onsite) or c) delivered on a CD by common carrier (such as FedEx or UPS).

All fees for Installation and On Site Assistance Services shall be invoiced upon completion of such services or monthly if such services are performed over a period exceeding one month. All fees for Training shall be invoiced upon completion of the first scheduled Training Class. All training purchased must be completed within one year of the department's go live date, or the date the training is purchased, whichever is later. Training not completed within one year will be forfeited.

The initial term of annual Software Support shall begin, and fees shall be due on the earlier of: i) live operation (Go-Live); or ii) 180 days after software installation, and shall continue for a period of twelve (12) months thereafter. Software Support is renewable on an annual basis. Support fees for additional software licenses purchase subsequent to initial system installation shall be invoiced upon delivery of the Software. The Annual Software Support fees for additional software licenses purchased subsequent to the initial installation shall be pro-rated to coincide with the current support term. Acceptance: When "acceptance" is specified in the quote as the criteria for invoicing or another milestone, a Task Completion Report will be provided by TRITECH to Client for sign-off upon completion of installation or other services. Client shall have ten (10) business days after installation to notify TRITECH in writing of any deficiencies, defined herein as critical errors in software or that the software is not functioning substantially in accordance with the written documentation. TRITECH shall use commercially reasonable efforts to correct the

deficiencies within ten (10) business days of such notice and resubmit to Client for sign-off. This process shall be repeated as necessary and appropriate. If Client fails to return the signed Task Completion Report and has not provided written notice of deficiency within the time period specified herein, the Software shall be deemed accepted. Conversion Services: Data conversion services, further described in the attached TRITECH Data Conversion Checklist, shall include one pre Go-Live deliverable (database training) and one post Go-Live deliverable and shall be limited to the items listed on this quote. Data Extraction fee is due in two increments; 50% upon quote acceptance and 50% upon 1st data extraction before database training. All fees for conversion services shall be payable in two increments; 50% upon quote acceptance and 50% at post Go-Live delivery. A Task Completion Report will be provided by TRITECH to Customer for sign-off upon completion of conversion services deliverable. Customer shall have ten (10) business days after installation to notify TRITECH in writing of any deficiencies. TRITECH shall use commercially reasonable efforts to correct the deficiencies within ten (10) business days of such notice and resubmit to Customer for sign-off. This process shall be repeated as necessary and appropriate. If Customer fails to return the signed Task Completion Report and has not provided written notice of deficiency within the time period specified herein, the conversion services shall be deemed accepted. Prices quoted for all On-site and Customer Site Services do not include travel expenses. Travel expenses will be billed separately as incurred, due Net 30 day terms and shall include actual costs for airfare, lodging, ground transportation and meals. NOTE: This quote includes the Perform software applications and services only; however additional 3rd party elements may be required. It is the sole responsibility of the customer to provide all such 3rd party elements to ensure the proper installation and operation of the Perform software.

Quotation Issued by: Dennis Noe Email: dennis.noe@tritech.com Phone: (978) 215-2282	<u>Send Purchase Orders To:</u> TriTech Software Systems 313 Boston Post Rd. West, Suite 140 Marlborough, MA 01752 Or Email: salesadmin@tritech.com Or Fax: (978) 215-2299
	<u>Remit Payments To:</u> TriTech Software Systems PO Box # 203223 Dallas, TX 75320-3223

Accepted for Client

By signing below, you are indicating that you are authorized to obligate funds for your organization. To activate your order, check the appropriate box below and, either, (i) attach a copy of this quotation to your purchase order when it is remitted to TriTech, or, (ii) if no additional authorizing paperwork is required for your organization to accept and pay an invoice, sign below and fax this quotation to 1-(978) 215-2299 or email to dennis.noe@tritech.com to indicate your acceptance.

Purchase Order required and attached, reference PO# _____ on invoice.
 No Purchase Order required to invoice.

Please check one of the following:

I agree to pay any applicable sales tax.
 I am tax exempt. Please contact me if TriTech does not have my current exempt information on file.

Note: Travel Expenses and Shipping costs are billed at actual expense per Terms & Conditions above.



Client Agency/Entity Name

Client Authorized Representative

Title

Signature Client Authorized Representative

Date

Proposal/Sales Quotation

Quotation QUO-27038-2HASJ2 Quotation Date: 9/14/2015

General & Client Information

Agency Name: North Andover Police Department	Bill To: North Andover Police Department 1475 Osgood Street North Andover MA 02780
System Description: North Andover PD and FD Data Conversion	
Client Contact: Christopher McClure	Ship To: 1475 Osgood Street North Andover MA 01845
Contact Phone: (978) 380-1011	
Contact Email: cmcclure@townofnorthandover.com	
Expiration Date: Quote Valid for 180 Days	
Presented By: Dennis Noe	

Project Products & Services

Projected Related Fee(s)

Product Name	Unit Price	Qty	Total Price
Data Conversion and Merge	\$28,560.00	1	\$28,560.00
Data Extraction Services	\$22,400.00	1	\$22,400.00

Project Related Fee(s) Total: **\$50,960.00**

Project Total: \$50,960.00

Estimated Sales Tax: (State: at %)	Taxable sales: \$0.00	Subtotal: \$50,960.00
		Sales Tax Amount: \$0.00
		Quote Total: \$50,960.00

Summary Information & Project Notes

The project management services included with this quotation, if any, will be considered completed upon client Go-live, unless otherwise stated. Training class size is up to 6 students for database training. All other training listed is up to 12 students. The training quoted is to be held at Perform unless On-site is referenced in the above item description section.

This serves as a quotation for **TriTech** to extract, convert and merge Pamet Systems CAD/RMS and Fire Records data from the North Andover, MA Police and Fire Departments and deliver it to the customers in Perform Solutions database format as follows:
Prior Police and Fire Vendor: Pamet Systems using Microsoft SQL Server database

Data Extraction Services: Extract and convert Police and Fire CAD/RMS data to include:

- Geographic and Site/Business file data
- CAD data (Police and Fire)
- Police Master Name data
- Police Case File data (hyperlinks)
- Police Images
- Police Property/Evidence (chain of custody)
- Fire Hydrant data
- Fire NFIRS-5 data
- Fire Permits/Inspections/Violations
- Images

Data Conversion/Merge Services: Convert and merge data to combined Perform database

- Streets and Sites
- CAD
- Police Master Names
- Police Cases
- Police Images
- Police Evidence
- Fire Hydrants
- Fire NFIRS 5.0
- Fire Permits
- Fire Inspections/Violations
- Fire Images

Terms and Conditions

Payment terms are as follows:

All invoices are due Net 30 days from the invoice date unless otherwise specified in this quote.

The software will be invoiced upon software delivery.

The training will be invoiced upon the completion of the first scheduled training class.

The installation will be invoiced upon service completion.

The support will be invoiced upon the earlier of: go-live or 180 days after installation.

The data extraction will be invoiced 50% upon quote acceptance and 50% upon 1st extraction before database training.

The software modifications will be invoiced 50% upon quote acceptance and 50% upon software modification delivery.

The installation services will be invoiced upon service completion.

The service fee for the portable classroom will be invoiced upon the completion of the first training class.

The project management will be invoiced 50% upon quote acceptance and 50% upon go live.

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All fees for Installation and On Site Assistance Services shall be invoiced upon completion of such services or monthly if such services are performed over a period exceeding one month. All fees for Training shall be invoiced upon completion of the first scheduled Training Class. All training purchased must be completed within one year of the department's go live date, or the date the training is purchased, whichever is later. Training not completed within one year will be forfeited.

The initial term of annual Software Support shall begin, and fees shall be due on the earlier of: i) live operation (Go-Live); or ii) 180 days after software installation, and shall continue for a period of twelve (12) months thereafter. Software Support is renewable on an annual basis. Support fees for additional software licenses purchase subsequent to initial system installation shall be invoiced upon delivery of the Software. The Annual Software Support fees for additional software licenses purchased subsequent to the initial installation shall be pro-rated to coincide with the current support term. Acceptance: When "acceptance" is specified in the quote as the criteria for invoicing or another milestone, a Task Completion Report will be provided by TRITECH to Client for sign-off upon completion of installation or other services. Client shall have ten (10) business days after installation to notify TRITECH in writing of any deficiencies, defined herein as critical errors in software or that the software is not functioning substantially in accordance with the written documentation. TRITECH shall use commercially reasonable efforts to correct the deficiencies within ten (10) business days of such notice and resubmit to Client for sign-off. This process shall be repeated as necessary and appropriate. If Client fails to return the signed Task Completion Report and has not provided written notice of deficiency within the time period specified herein, the Software shall be deemed accepted. Conversion Services: Data conversion services, further described in the attached TRITECH Data Conversion Checklist, shall include one pre Go-Live deliverable (database training) and one post Go-Live deliverable and shall be limited to the items listed on this quote. Data Extraction fee is due in two increments; 50% upon quote acceptance and 50% upon 1st data extraction before database training. All fees for conversion services shall be payable in two increments; 50% upon quote acceptance and 50% at post Go-Live delivery. A Task Completion Report will be provided by TRITECH to Customer for sign-off upon completion of conversion services deliverable. Customer shall have ten (10) business days after installation to notify TRITECH in writing of any deficiencies. TRITECH shall use commercially reasonable efforts to correct the deficiencies within ten (10) business days of such notice and resubmit to Customer for sign-off. This process shall be repeated as necessary and appropriate. If Customer fails to return the signed Task Completion Report and has not provided written notice of deficiency within the time period specified herein, the conversion services shall be deemed accepted. Prices quoted for all On-site and Customer Site Services do not include travel expenses. Travel expenses will be billed separately as incurred, due Net 30 day terms and shall include actual costs for airfare, lodging, ground transportation and meals. NOTE: This quote includes the Perform software applications and services only; however additional 3rd party elements may be required. It is the sole responsibility of the customer to provide all such 3rd party elements to ensure the proper installation and operation of the Perform software.

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	<p><u>Remit Payments To:</u></p> <p>TriTech Software Systems PO Box # 203223 Dallas, TX 75320-3223</p>

Accepted for Client

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Purchase Order required and attached, reference PO# _____ on invoice.

No Purchase Order required to invoice.

Please check one of the following:

I agree to pay any applicable sales tax.

I am tax exempt. Please contact me if TriTech does not have my current exempt information on file.

Note: Travel Expenses and Shipping costs are billed at actual expense per Terms & Conditions above.

Client Agency/Entity Name

Client Authorized Representative

Signature Client Authorized Representative

Title

Date



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Fire **Priority:** 2
Department: Fire **Type:** Replacement
Project: Ambulance Replacement **Cost Basis:** Vendor Quote
Project Category: Equip (Rolling) **Asset Class:** Select One
Project Type: Vehicle/Equipment (including "General IT")

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$268,197.00	\$0.00	\$0.00	\$0.00	\$300,000.00	\$568,197.00

Funding Source	Funding Amount	Submitted by:
General Fund	\$568,197.00	Andrew Melnikas
Total	\$568,197.00	Title: Fire Chief
		Date: 10/09/2015

Description

In FY17, the Department intends to purchase a new 2016 Horton 623 Ambulance with appropriate equipment, accessories, etc.

Justification

The new ambulance will replace a 2008 Ford Ambulance. This vehicle currently has a blown engine for which a replacement engine cannot be located. The new ambulance will serve as a front line vehicle along with a 2014 International Ambulance. The 2008 Chevrolet Ambulance will become the backup ambulance should one of the two front line ambulances be in need of repair. Since the Fire Department responds to approximately 3,000 ambulance calls per year, it is felt front line ambulance replacement should be done on a five year cycle.

Description of item to be replaced

This purchase replaces a 2008 Ford Ambulance.

Schedule for completion of project

It is anticipated the new ambulance will be delivered by the end of calendar year 2016.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

December 7, 2015

No. Andover Fire Department
Chief Andrew Melnikas
124 Main Street
No. Andover Ma 01845

Dear Chief Yetman,

Greenwood Emergency Vehicles Inc. is pleased to submit this proposal for the purchase of (1) 2016 Horton 623 Model Horton Ambulance.

The Ambulance proposed is based on No. Andover's current 623 with Department requested upgrades.

The Price below is from the MAPC/ FCAM contract and it includes the costs for installations done by and at Greenwood. MAPC/FCAM confirmation requires a signed contract, or purchase order, from the Town to accompany submitted paperwork. Final approval from MAPC/FCAM will be sent to No. Andover after Greenwood submits the qualifying paper work. MAPC/FCAM Contract price for the above ambulance with modifications is \$245,132.06

Respectfully submitted,

Lawrence Woodbury
Ambulance Sales Manager
Greenwood Emergency Vehicles



Comprehensive Quotation

Sales Account Manager
 RYAN SHAUGHNESSY
 Ryan.Shaughnessy@stryker.com
 1-800-327-0770

Remit to:
 P.O. Box 93308
 Chicago, IL 60673-3308

End User Shipping Address	Shipping Address	Billing Address
1172727 NORTH ANDOVER FIRE DEPT 124 MAIN ST NORTH ANDOVER, MA 01845	1172727 NORTH ANDOVER FIRE DEPT 124 MAIN ST NORTH ANDOVER, MA 01845	1172727 NORTH ANDOVER FIRE DEPT 124 MAIN ST NORTH ANDOVER, MA 01845

Customer Contact	Ref Number	Date	PO Number	Reference Field	Quote Type
	4454604	10/13/2015	QUOTE		

Line #	Quantity	Item Description	Part #	Unit Price	Extended Price	Item Comments
1.00	1	Stair-PRO Model 6252	6252000000	\$3,357.00	\$3,357.00	
		Options				
	1	Stair-PRO Model 6252	6252000000	\$3,357.00	\$3,357.00	
	1	Common Components	6252026000			
	1	Domestic Manual	6250001160			
	1	2 Piece ABS Panel Seat	6250021000			
	1	Polypropelene Restraint Set (Plastic Buckles)	6250160000			
	1	1 year parts, labor & travel	7777881660			
	1	Main Frame Assy Option	6252022000			
	1	Standard Length Lower Lift Handles	6250024000			
	1	In-Service Video (DVD)	6250001162			
	1	Footrest Option	6252027000			
	1	No IV Clip Option	6252024000			

Note:

Product Total	\$3,357.00
Freight	\$0.00
Tax	\$0.00
Total Incl Tax & Freight	\$3,357.00

Signature: _____ Title/Position: _____ Date: _____

Deal Consummation: This is a quote and not a commitment. This quote is subject to final credit, pricing, and documentation approval. Legal documentation must be signed before your equipment can be delivered. Documentation will be provided upon completion of our review process and your selection of a payment schedule.
Confidentiality Notice: Recipient will not disclose to any third party the terms of this quote or any other information, including any pricing or discounts, offered to be provided by Stryker to Recipient in connection with this quote, without Stryker's prior written approval, except as may be requested by law or by lawful order of any applicable government agency.
Terms: Net 30 Days. FOB origin. A copy of Stryker Medical's standard terms and conditions can be obtained by calling Stryker Medical's Customer Service at 1-800-STRYKER.
Cancellation and Return Policy: In the event of damaged or defective shipments, please notify Stryker within 30 days and we will remedy the situation. Cancellation of orders must be received 30 days prior to the agreed upon delivery date. If the order is cancelled within the 30 day window, a fee of 25% of the total purchase order price and return shipping charges will apply.



Comprehensive Quotation

Sales Account Manager
 RYAN SHAUGHNESSY
 Ryan.Shaughnessy@stryker.com
 1-800-327-0770

Remit to:
 P.O. Box 93308
 Chicago, IL 60673-3308

End User Shipping Address
 1172727
 NORTH ANDOVER FIRE DEPT
 124 MAIN ST
 NORTH ANDOVER, MA 01845

Shipping Address
 1172727
 NORTH ANDOVER FIRE DEPT
 124 MAIN ST
 NORTH ANDOVER, MA 01845

Billing Address
 1172727
 NORTH ANDOVER FIRE DEPT
 124 MAIN ST
 NORTH ANDOVER, MA 01845

Customer Contact	Ref Number	Date	PO Number	Reference Field	Quote Type
	4454517	10/13/2015	QUOTE		

Line #	Quantity	Item Description	Part #	Unit Price	Extended Price	Item Comments
1.00	1	Power-PRO XT	6506000000	\$17,218.00	\$17,218.00	
		Options				
	1	Power-PRO XT	6506000000	\$17,718.00	\$17,718.00	
	1	Dual Wheel Lock	6086602010			
	1	PR Cot Retaining Post	6085033000			
	1	Power Pro Standard Components	6506026000			
	1	XPS Option	6506040000			
	1	No Runner/HE O2	0054200994			
	1	Equipment Hook	6500147000			
	1	Non Power-Load Compatible	6506029000			
	1	Knee-Gatch/Trendelenburg	6500082000			
	1	Retractable Head Section O2	6085046000			
	1	Pocketed Back Rest Pouch	6500130000			
	1	Head End Storage Flat	6500128000			
	1	English Manual	6506600000			
	1	SMRT Charger Mounting Bracket	6500034000			
	1	SMRT Automotive 12V Cable	6500035000			
	1	120V AC SMRT Charging Kit	6500028000			
	1	Short Hook	6060036017			
	1	XPS Knee Gatch Bolster Matrss	6500003130			
	1	Steer Lock Option	6506038000			
	1	3 YR X-Frame Powertrain Wrnty	7777881669			
	1	2 Yr Bumper to Bumper Warranty	7777881670			
	1	DOM SHIP (NOT HI, AK, PR, GM)	0054030000			
	1	3 Stage IV Pole PR Option	6500315000			
	1	G-RATED RESTRAINT PACKAGE	6500002030			
	1	STANDARD FOWLER	6506012003			
	1	Customer Trade-In	9999999910	(\$500.00)	(\$500.00)	
2.00	1	Protect Power Cot 6506- 7year	77115001	\$2,490.50	\$2,490.50	

Note:

Product Total	\$19,708.50
Freight	\$0.00
Tax	\$0.00
Total Incl Tax & Freight	\$19,708.50

Signature: _____ Title/Position: _____ Date: _____

Deal Consummation: This is a quote and not a commitment. This quote is subject to final credit, pricing, and documentation approval. Legal documentation must be signed before



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Fire	Priority: 3
Department: Fire	Type: Replacement
Project: Purchase new Amkus tools	Cost Basis: Vendor Quote
Project Category: Equip (non-Rolling)	Asset Class: Select One
Project Type: Vehicle/Equipment (including "General IT")	

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$110,000.00	\$0.00	\$0.00	\$110,000.00

Funding Source	Funding Amount	Submitted by: Andrew Melnikas
Select One	\$110,000.00	Title: Fire Chief
	Total \$110,000.00	Date: 10/15/2015

Description

The equipment to be purchased is a new set of Amkus Rescue tools for all three front line apparatus. This would include power units, spreaders, tips, hose, etc.

Justification

The current rescue tools were purchased in 2000. Technology has changed significantly over the past years especially in the area of automobile manufacturing. The new Amkus tools will allow crews responding to motor vehicle accidents to be safer and more efficient in their work

Description of item to be replaced

Current set of Hurst Rescue tools

Schedule for completion of project

Delivery of this equipment can be attained within three (3) to six (6) months after purchase.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

FIREMATIC SUPPLY CO., INC.

237 Sugar Road Bolton, MA 01740

E-Mail: cdavis@firematic.com

WebSite: www.firematic.com

Quote



DATE	PAGE
10/6/2014	1
QUOTE NUMBER	
QT38176	
PRICE FIRM	
30 DAYS	

Quoted To	North Andover Fire Dept. 124 MAIN STREET N. ANDOVER MA 01845
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Ship To	North Andover Fire Dept. 124 MAIN STREET N. ANDOVER MA 01845
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CUSTOMER NO. 3322	FAX NO.	PHONE NO. (508) 6894360	SALESPERSON CHRIS DAVIS	BID NO.
----------------------	---------	----------------------------	----------------------------	---------

LINE NO.	ITEM NUMBER	DESCRIPTION	QTY ORDERED	UNIT PRICE	EXTENDED PRICE
1	HUR272085000	EDRAULC2 S 700E2 CUTTER PACKAGE	3	11,330.00	33,990.00
2	HUR271085000	EDRAULIC SP310E2 SPREADER PACKAGE	3	12,430.00	37,290.00
3	HUR274080001	EDRAULIC R 411E RAM PACKAGE	3	8,530.00	25,590.00
4	HUR274081000	EXTENSION FOR R411E	3	320.00	960.00
5	HUR272085412	EDRAULIC2 110V E2 POWER SUPPLY W/PLUG	6	695.00	4,170.00
6	HUR272080910	EDRAULIC DC BANK CHARGER	3	1,750.00	5,250.00

Comments

Amount
By:

107,250.00
CHRIS DAVIS



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Fire **Priority:** 4
Department: Fire **Type:** Replacement
Project: Replace Engine # 1 **Cost Basis:** Vendor Quote
Project Category: Equip (Rolling) **Asset Class:** Select One
Project Type: Vehicle/Equipment (including "General IT")

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$660,000.00	\$0.00	\$660,000.00

Funding Source	Funding Amount	Submitted by: Andrew Melnikas
General Fund	\$660,000.00	Title: Fire Chief
	Total \$660,000.00	Date: 10/09/2015

Description

A new engine/ pumper would be purchased to replace one of the Emergency One Engines/ Pumpers. Selection would come , either form the Mass State Chief's web site , if their offering meets the needs of the Department.

Justification

By Fiscal Year 2020, both Emergency One engines/ pumpers will have been in service for over 15 years. Generally an engine/ pumpers averages ten (10) years as a front line piece of equipment.

Description of item to be replaced

The item to be replaced is a 2004 Emergency One engine/ pumper.

Schedule for completion of project

The Purchase Order for the new Engine would be placed in July of 2019. Completion would depend upon whether the Town purchased this vehicle via the Mass Fire Chief's collective purchase program or not. Purchasing a vehicle outside of this program would add significant time to the delivery date

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
	G. O. Bond - 06/01/08	6,411,316						
15-Sep				\$ 500.00				
15-Mar	Historic Center Roadway	404,000	\$ 25,000.00	\$ 500.00	\$ -			
15-Sep				\$ 1,567.56			\$ 783.78	
15-Mar	Old Center Roadway	391,891	\$ 39,189.10	\$ 1,567.56	\$ 39,189.10	\$ 39,189.10	\$ 783.78	\$ -
15-Sep				\$ 634.16			\$ 317.08	
15-Mar	Ambulance Replacement	158,539	\$ 15,853.90	\$ 634.16	\$ 15,853.90	\$ 15,853.90	\$ 317.08	\$ 0.00
15-Sep				\$ 720.00			\$ 360.00	
15-Mar	Front End Loader	180,000	\$ 18,000.00	\$ 720.00	\$ 18,000.00	\$ 18,000.00	\$ 360.00	\$ -
15-Sep				\$ 220.00			\$ 110.00	
15-Mar	Tractor	55,000	\$ 5,500.00	\$ 220.00	\$ 5,500.00	\$ 5,500.00	\$ 110.00	\$ -
15-Sep				\$ 562.50			\$ 482.50	
15-Mar	Mosquito Brook Drainage	80,000	\$ 4,000.00	\$ 562.50	\$ 24,000.00	\$ 4,000.00	\$ 482.50	\$ 20,000.00
15-Sep				\$ 1,603.13			\$ 1,375.13	
15-Mar	Franklin School Roof	216,596	\$ 11,400.00	\$ 1,603.13	\$ 68,400.00	\$ 11,400.00	\$ 1,375.13	\$ 57,000.00
	SUBTOTAL	1,486,026	\$ 118,943.00	\$ 11,614.70	\$ 170,943.00	\$ 93,943.00	\$ 6,856.98	\$ 77,000.00
	G. O. Bond - 6/12/08	-						
	* Refunding Bonds - 1/1/98 included							
15-Aug	Osgood Hill Land Acquisition	2,960,000	\$ 330,000.00	\$ 12,450.00	\$ 345,000.00	\$ 345,000.00	\$ 6,468.75	\$ -
15-Feb				\$ 6,468.75				
	SUBTOTAL	2,960,000	\$ 330,000.00	\$ 18,918.75	\$ 345,000.00	\$ 345,000.00	\$ 6,468.75	\$ -
	G. O. Bond - 6/12/08	-						
	* Refunding Bonds - 9/1/98							
15-Aug	Thomson Elementary School	2,070,000	\$ 210,000.00	\$ 12,196.88	\$ 440,000.00	\$ 215,000.00	\$ 8,390.63	\$ 225,000.00
15-Feb				\$ 8,390.63			\$ 4,359.38	
	SUBTOTAL	2,070,000	\$ 210,000.00	\$ 20,587.51	\$ 440,000.00	\$ 215,000.00	\$ 12,750.01	\$ 225,000.00
	G. O. Bond - 6/12/08	-						
	* Refunding Bonds - 1/15/98							
15-Aug	Middle School Renovation/Addition	6,455,000	\$ 835,000.00	\$ 31,446.88	\$ 870,000.00	\$ 870,000.00	\$ 16,312.50	\$ -
15-Feb				\$ 16,312.50				
15-Aug	School Planning - Sargent	1,015,000						
15-Feb								
	SUBTOTAL	7,470,000	\$ 835,000.00	\$ 47,759.38	\$ 870,000.00	\$ 870,000.00	\$ 16,312.50	\$ -
	G. O. Bond - 6/15/09							
15-Jan	Franklin Roof	597,404	\$ 100,000.00	\$ 5,390.98	\$ 147,049.00	\$ 90,000.00	\$ 3,390.98	\$ 57,049.00
15-Jul				\$ 5,390.98		\$ -	\$ 3,390.98	
15-Jan	Mosquito Brook Drainage	135,000	\$ 24,306.00	\$ 1,384.54	\$ 39,011.00	\$ 23,639.00	\$ 898.42	\$ 15,372.00
15-Jul				\$ 1,384.54		\$ -	\$ 898.42	
15-Jan	Sidewalk Construction	55,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Communications Center Upgrade	246,218	\$ 24,622.00	\$ 1,600.39	\$ 49,242.00	\$ 24,621.00	\$ 1,107.95	\$ 24,621.00
15-Jul				\$ 1,600.39		\$ -	\$ 1,107.95	
15-Jan	Town/School Data Hardware	438,770	\$ 48,752.00	\$ 2,193.84	\$ 48,752.00	\$ 48,752.00	\$ 1,218.80	\$ -
15-Jul				\$ 2,193.84		\$ -	\$ 1,218.80	
15-Jan	Town/School Data Software	6,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Senior Center Improvements	250,000	\$ 23,873.00	\$ 1,617.61	\$ 51,039.00	\$ 23,873.00	\$ 1,140.15	\$ 27,166.00
15-Jul				\$ 1,617.61		\$ -	\$ 1,140.15	
15-Jan	Library Technology - Hardware	56,115	\$ 6,235.00	\$ 280.58	\$ 6,235.00	\$ 6,235.00	\$ 155.88	\$ -
15-Jul				\$ 280.58		\$ -	\$ 155.88	
15-Jan	Library Technology - Software	18,885	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Radio Fire Box	160,000	\$ 17,777.00	\$ 799.97	\$ 17,777.00	\$ 17,777.00	\$ 444.43	\$ -
15-Jul				\$ 799.97		\$ -	\$ 444.43	
15-Jan	Ambulance Replacement	156,539	\$ 15,654.00	\$ 1,017.49	\$ 31,307.00	\$ 15,654.00	\$ 704.41	\$ 15,653.00
15-Jul				\$ 1,017.49		\$ -	\$ 704.41	
15-Jan	Fire Station Roof	30,000	\$ 3,000.00	\$ 217.58	\$ 7,129.00	\$ 3,000.00	\$ 157.58	\$ 4,129.00
15-Jul				\$ 217.58		\$ -	\$ 157.58	
15-Jan	Four Wheel Vehicle	39,174	\$ 3,917.00	\$ 254.61	\$ 7,834.00	\$ 3,917.00	\$ 176.27	\$ 3,917.00
15-Jul				\$ 254.61		\$ -	\$ 176.27	
15-Jan	Police Computer Hardware	90,526	\$ 10,058.00	\$ 452.61	\$ 10,058.00	\$ 10,058.00	\$ 251.45	\$ -

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
15-Jul				\$ 452.61		\$ -	\$ 251.45	
15-Jan	Police Computer Software	22,511	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Police Radios	228,480	\$ 22,848.00	\$ 1,485.12	\$ 45,696.00	\$ 22,848.00	\$ 1,028.16	\$ 22,848.00
15-Jul				\$ 1,485.12		\$ -	\$ 1,028.16	
15-Jan	Underground Tank	25,000	\$ 2,500.00	\$ 162.50	\$ 5,000.00	\$ 2,500.00	\$ 112.50	\$ 2,500.00
15-Jul				\$ 162.50		\$ -	\$ 112.50	
15-Jan	Sidewalk Construction	114,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	One Ton Dump Truck	36,000	\$ 3,600.00	\$ 234.00	\$ 7,200.00	\$ 3,600.00	\$ 162.00	\$ 3,600.00
15-Jul				\$ 234.00		\$ -	\$ 162.00	
15-Jan	One Ton Dump Truck	134,000	\$ 13,400.00	\$ 871.00	\$ 26,800.00	\$ 13,400.00	\$ 603.00	\$ 13,400.00
15-Jul				\$ 871.00		\$ -	\$ 603.00	
15-Jan	Cab Platform Truck	114,000	\$ 11,400.00	\$ 741.00	\$ 22,800.00	\$ 11,400.00	\$ 513.00	\$ 11,400.00
15-Jul				\$ 741.00		\$ -	\$ 513.00	
15-Jan	Middle School. Entry Engress	88,500	\$ 9,000.00	\$ 585.00	\$ 18,000.00	\$ 9,000.00	\$ 405.00	\$ 9,000.00
15-Jul				\$ 585.00		\$ -	\$ 405.00	
15-Jan	Sidewalks	50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Autran Avenue	90,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Sidewalks	50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Ten Wheel Truck	50,937	\$ 5,093.00	\$ 331.05	\$ 10,186.00	\$ 5,093.00	\$ 229.19	\$ 5,093.00
15-Jul				\$ 331.05		\$ -	\$ 229.19	
15-Jan	Tractor	33,000	\$ 3,300.00	\$ 214.50	\$ 6,600.00	\$ 3,300.00	\$ 148.50	\$ 3,300.00
15-Jul				\$ 214.50		\$ -	\$ 148.50	
15-Jan	Tractor - Multi Purpose	141,000	\$ 14,100.00	\$ 916.50	\$ 28,200.00	\$ 14,100.00	\$ 634.50	\$ 14,100.00
15-Jul				\$ 916.50		\$ -	\$ 634.50	
15-Jan	Network Connection	31,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Student Management Software	75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Firearms	54,000	\$ 5,400.00	\$ 351.00	\$ 10,800.00	\$ 5,400.00	\$ 243.00	\$ 5,400.00
15-Jul				\$ 351.00		\$ -	\$ 243.00	
15-Jan	EMS Reporting - Hardware	20,304	\$ 2,030.00	\$ 131.95	\$ 4,060.00	\$ 2,030.00	\$ 91.35	\$ 2,030.00
15-Jul				\$ 131.95		\$ -	\$ 91.35	
15-Jan	EMS Reporting - Software	29,696	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Computer System - Hardware	147,075	\$ 14,707.00	\$ 955.96	\$ 29,414.00	\$ 14,707.00	\$ 661.82	\$ 14,707.00
15-Jul				\$ 955.96		\$ -	\$ 661.82	
15-Jan	Computer System - Software	37,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul				\$ -		\$ -	\$ -	
15-Jan	Police Station	1,200,000	\$ 60,000.00	\$ 15,990.00	\$ 720,000.00	\$ 60,000.00	\$ 14,790.00	\$ 660,000.00
15-Jul				\$ 15,990.00		\$ -	\$ 14,790.00	
15-Jan	Pre School Facility	2,068,345	\$ 104,984.00	\$ 27,216.46	\$ 1,228,468.00	\$ 104,984.00	\$ 25,116.78	\$ 1,123,484.00
15-Jul				\$ 27,216.46		\$ -	\$ 25,116.78	
	SUBTOTAL	7,122,134	\$ 550,556.00	\$ 130,792.48	\$ 2,578,657.00	\$ 539,888.00	\$ 108,770.24	\$ 2,038,769.00
G. O. Bond - 12/15/09								
15-Jul	Autran Avenue			\$ -	\$ -	\$ -	\$ -	\$ -
15-Jan		235,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul	Sidewalk Construction			\$ -	\$ -	\$ -	\$ -	\$ -
15-Jan		72,200		\$ -	\$ -	\$ -	\$ -	\$ -
15-Jul	Police Station			\$ 43,197.50	\$ -	\$ -	\$ 40,347.50	\$ -
15-Jan		3,563,000	\$ 190,000.00	\$ 43,197.50	\$ 2,230,000.00	\$ 190,000.00	\$ 40,347.50	\$ 2,040,000.00
15-Jul	Modular Class Rooms			\$ -	\$ -	\$ -	\$ -	\$ -
15-Jan		301,022		\$ -	\$ -	\$ -	\$ -	\$ -
	SUBTOTAL	4,171,222	\$ 190,000.00	\$ 86,395.00	\$ 2,230,000.00	\$ 190,000.00	\$ 80,695.00	\$ 2,040,000.00
G.O Bond - 02/17/2011								
15-Aug	Police Repairs	114,353	\$ 11,435.00	\$ 1,014.86	\$ 45,740.00	\$ 11,435.00	\$ 843.33	\$ 34,305.00
15-Feb				\$ 843.33			\$ 628.93	
15-Aug	Roadway	380,000			\$ -			\$ -
15-Feb								\$ -

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
15-Aug	Sidewalk	50,000			\$ -			\$ -
15-Feb								
15-Aug	Senior Center Roof	26,000	\$ 2,600.00	\$ 230.75	\$ 10,400.00	\$ 2,600.00	\$ 191.75	\$ 7,800.00
15-Feb				\$ 191.75			\$ 143.00	
15-Aug	Master Plan	150,000	\$ -	\$ -	\$ -			\$ -
15-Feb				\$ -				
15-Aug	Police Equipment	405,000	\$ 40,500.00	\$ 3,594.38	\$ 162,000.00	\$ 40,500.00	\$ 2,986.88	\$ 121,500.00
15-Feb				\$ 2,986.88			\$ 2,227.50	
15-Aug	School IT Network Equipment	863,000	\$ 86,300.00	\$ 7,659.13	\$ 345,200.00	\$ 86,300.00	\$ 6,364.63	\$ 258,900.00
15-Feb				\$ 6,364.63			\$ 4,746.50	
15-Aug	Revenue Billing System	15,000			\$ -			\$ -
15-Feb								
15-Aug	Body Armor Replacement	40,000			\$ -			\$ -
15-Feb								
15-Aug	Fire Dept Radio Equipment	432,000	\$ 43,200.00	\$ 3,834.00	\$ 172,800.00	\$ 43,200.00	\$ 3,186.00	\$ 129,600.00
15-Feb				\$ 3,186.00			\$ 2,376.00	
15-Aug	Dump Truck , 2, ton w/plow	55,000	\$ 5,500.00	\$ 488.13	\$ 22,000.00	\$ 5,500.00	\$ 405.63	\$ 16,500.00
15-Feb				\$ 405.63			\$ 302.50	
15-Aug	Fire Sprinkler - Kittridge School	75,000	\$ 7,500.00	\$ 665.63	\$ 30,000.00	\$ 7,500.00	\$ 553.13	\$ 22,500.00
15-Feb				\$ 553.13			\$ 412.50	
15-Aug	Fire Trucks	1,300,000	\$ 134,465.00	\$ 11,277.52	\$ 502,860.00	\$ 134,465.00	\$ 9,260.54	\$ 368,395.00
15-Feb				\$ 9,260.54			\$ 6,739.33	
15-Aug	Library HVAC System	460,000	\$ 46,000.00	\$ 4,082.50	\$ 184,000.00	\$ 46,000.00	\$ 3,392.50	\$ 138,000.00
15-Feb				\$ 3,392.50			\$ 2,530.00	
	SUBTOTAL	4,365,353	\$ 377,500.00	\$ 60,031.29	\$ 1,475,000.00	\$ 377,500.00	\$ 47,290.65	\$ 1,097,500.00
	G.O Bond - 05/17/2012							
15-Nov				\$ 990.00			\$ 825.00	
15-May	Kittridge Fire Sprinkler	165,000	\$ 16,500.00	\$ 990.00	\$ 82,500.00	\$ 16,500.00	\$ 825.00	\$ 66,000.00
15-Nov				\$ 684.38				
15-May	Roadway	342,192	\$ 68,438.00	\$ 684.38	\$ -			\$ -
15-Nov				\$ 106.02				
15-May	Fire Box	53,011	\$ 10,602.00	\$ 106.02	\$ -			\$ -
15-Nov				\$ 750.00				
15-May	Internat Telephone	375,000	\$ 75,000.00	\$ 750.00	\$ -			\$ -
15-Nov				\$ 6,368.72			\$ 5,956.46	
15-May	Middle School Roof Replacement	746,174	\$ 41,226.00	\$ 6,368.72	\$ 536,333.00	\$ 36,866.00	\$ 5,956.46	\$ 499,467.00
15-Nov				\$ 86.00				
15-May	Defibrillator Replacement	43,000	\$ 8,600.00	\$ 86.00	\$ -			\$ -
15-Nov				\$ 250.00				
15-May	Police Parking Lot	125,000	\$ 25,000.00	\$ 250.00	\$ -			\$ -
15-Nov				\$ 76.00				
15-May	DPW Generator	38,000	\$ 7,600.00	\$ 76.00	\$ -			\$ -
15-Nov				\$ 164.00				
15-May	School Data	82,000	\$ 16,400.00	\$ 164.00	\$ -			\$ -
15-Nov				\$ 90.00				
15-May	Vehicle Fuel Pump System	45,000	\$ 9,000.00	\$ 90.00	\$ -			\$ -
15-Nov				\$ 1,095.47			\$ 912.89	
15-May	Dump Truck w/plow,sander and basin cleaner	182,579	\$ 18,258.00	\$ 1,095.47	\$ 91,289.00	\$ 18,258.00	\$ 912.89	\$ 73,031.00
15-Nov				\$ 1,746.72			\$ 1,455.60	
15-May	Sargent School Roof Replacement	291,124	\$ 29,112.00	\$ 1,746.72	\$ 145,560.00	\$ 29,112.00	\$ 1,455.60	\$ 116,448.00
15-Nov				\$ 4,633.20			\$ 4,367.56	
15-May	Atkinson School Windows Replacement	531,268	\$ 26,564.00	\$ 4,633.20	\$ 393,818.00	\$ 31,564.00	\$ 4,367.56	\$ 362,254.00
15-Nov				\$ 1,957.00			\$ 1,845.00	
15-May	Middle School Roof Replacement	224,000	\$ 11,200.00	\$ 1,957.00	\$ 168,000.00	\$ 16,200.00	\$ 1,845.00	\$ 151,800.00
15-Nov				\$ 72.00			\$ 60.00	
15-May	Sargent School Roof Replacement	12,000	\$ 1,200.00	\$ 72.00	\$ 6,000.00	\$ 1,200.00	\$ 60.00	\$ 4,800.00
	SUBTOTAL	3,255,348	\$ 364,700.00	\$ 38,139.02	\$ 1,423,500.00	\$ 149,700.00	\$ 30,845.02	\$ 1,273,800.00
	G.O Bond - 06/24/13							
1-Dec				\$ 2,860.20			\$ 1,430.10	
1-Jun	Roadways	476,700	\$ 95,340.00	\$ 2,860.20	\$ 95,340.00	\$ 95,340.00	\$ 1,430.10	\$ -
1-Dec				\$ 388.88			\$ 305.54	
1-Jun	Sidewalks	50,000	\$ 5,556.00	\$ 388.88	\$ 27,776.00	\$ 5,556.00	\$ 305.54	\$ 22,220.00
1-Dec				\$ 300.00			\$ 150.00	
1-Jun	Building Maintenance	50,000	\$ 10,000.00	\$ 300.00	\$ 10,000.00	\$ 10,000.00	\$ 150.00	\$ -
1-Dec				\$ 174.00			\$ 87.00	
1-Jun	Fire Chief Vehicle	29,273	\$ 5,800.00	\$ 174.00	\$ 5,800.00	\$ 5,800.00	\$ 87.00	\$ -

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
1-Dec				\$ 540.00			\$ 270.00	
1-Jun	Mobile Data Terminals	90,258	\$ 18,000.00	\$ 540.00	\$ 18,000.00	\$ 18,000.00	\$ 270.00	\$ -
1-Dec				\$ 240.00			\$ 120.00	
1-Jun	General IT	40,000	\$ 8,000.00	\$ 240.00	\$ 8,000.00	\$ 8,000.00	\$ 120.00	\$ -
1-Dec				\$ 990.00			\$ 495.00	
1-Jun	School IT	165,098	\$ 33,000.00	\$ 990.00	\$ 33,000.00	\$ 33,000.00	\$ 495.00	\$ -
1-Dec				\$ 193.41			\$ 151.97	
1-Jun	MSBA - Middle and Atkinson Roof Replacements	24,870	\$ 2,763.00	\$ 193.41	\$ 13,815.00	\$ 2,763.00	\$ 151.97	\$ 11,052.00
	SUBTOTAL	926,199	\$ 178,459.00	\$ 11,372.98	\$ 211,731.00	\$ 178,459.00	\$ 6,019.22	\$ 33,272.00
	G. O. Bond - Refunding Series B Bonds 2005-							
15-Aug	New High School	2,275,000	\$ 220,000.00	\$ 26,350.00	\$ 1,610,000.00	\$ 215,000.00	\$ 24,150.00	\$ 1,395,000.00
15-Feb				\$ 24,150.00			\$ 20,925.00	
	SUBTOTAL	2,275,000	\$ 220,000.00	\$ 50,500.00	\$ 1,610,000.00	\$ 215,000.00	\$ 45,075.00	\$ 1,395,000.00
	G. O. Bond - Refunding Series B Bonds 2005-							
15-Aug	New High School	1,735,000	\$ 150,000.00	\$ 20,625.00	\$ 1,275,000.00	\$ 150,000.00	\$ 19,125.00	\$ 1,125,000.00
15-Feb				\$ 19,125.00			\$ 16,875.00	
	SUBTOTAL	1,735,000	\$ 150,000.00	\$ 39,750.00	\$ 1,275,000.00	\$ 150,000.00	\$ 36,000.00	\$ 1,125,000.00
	G.O Bond - 06/17/14							
1-Dec				\$ 3,436.13			\$ 3,301.38	
1-Jun	Central Office	269,500	\$ 13,475.00	\$ 3,436.13	\$ 229,075.00	\$ 13,475.00	\$ 3,301.38	\$ 215,600.00
1-Dec				\$ 1,147.50			\$ 1,102.50	
1-Jun	Kittridge School Gym	90,000	\$ 4,500.00	\$ 1,147.50	\$ 76,500.00	\$ 4,500.00	\$ 1,102.50	\$ 72,000.00
1-Dec				\$ 2,393.10			\$ 2,153.79	
1-Jun	Ambulance	239,312	\$ 23,931.00	\$ 2,393.10	\$ 167,517.00	\$ 23,931.00	\$ 2,153.79	\$ 143,586.00
1-Dec				\$ 2,173.66			\$ 1,552.61	
1-Jun	Roadway 2014	310,524	\$ 62,105.00	\$ 2,173.66	\$ 124,209.00	\$ 62,105.00	\$ 1,552.61	\$ 62,104.00
1-Dec				\$ 750.00			\$ 675.00	
1-Jun	Sidewalks 2014	75,000	\$ 7,500.00	\$ 750.00	\$ 52,500.00	\$ 7,500.00	\$ 675.00	\$ 45,000.00
1-Dec				\$ 1,050.00			\$ 750.00	
1-Jun	Building Maintenance 2014	150,000	\$ 30,000.00	\$ 1,050.00	\$ 60,000.00	\$ 30,000.00	\$ 750.00	\$ 30,000.00
1-Dec				\$ 2,300.00			\$ 2,070.00	
1-Jun	Front End Loader	230,000	\$ 23,000.00	\$ 2,300.00	\$ 161,000.00	\$ 23,000.00	\$ 2,070.00	\$ 138,000.00
1-Dec				\$ 926.90			\$ 834.21	
1-Jun	District Wide Paving - School	92,691	\$ 9,269.00	\$ 926.90	\$ 64,883.00	\$ 9,269.00	\$ 834.21	\$ 55,614.00
1-Dec				\$ 41,252.11			\$ 39,647.23	
1-Jun	Facilities Master Plan 2014	3,235,500	\$ 160,488.00	\$ 41,252.11	\$ 2,750,353.00	\$ 160,488.00	\$ 39,647.23	\$ 2,589,865.00
1-Dec				\$ 537.87			\$ 384.19	
1-Jun	IT Room Air Conditioning	76,839	\$ 15,368.00	\$ 537.87	\$ 30,735.00	\$ 15,368.00	\$ 384.19	\$ 15,367.00
1-Dec				\$ 350.00			\$ 250.00	
1-Jun	Municipal IT	50,000	\$ 10,000.00	\$ 350.00	\$ 20,000.00	\$ 10,000.00	\$ 250.00	\$ 10,000.00
1-Dec				\$ 1,250.00			\$ 1,125.00	
1-Jun	Tractor & Brush Cutter	125,000	\$ 12,500.00	\$ 1,250.00	\$ 87,500.00	\$ 12,500.00	\$ 1,125.00	\$ 75,000.00
1-Dec				\$ 889.91			\$ 635.65	
1-Jun	School Dept IT	127,131	\$ 25,426.00	\$ 889.91	\$ 50,852.00	\$ 25,426.00	\$ 635.65	\$ 25,426.00
1-Dec				\$ 1,100.00			\$ 990.00	
1-Jun	Water & High Street Lights, Intersection	110,000	\$ 11,000.00	\$ 1,100.00	\$ 77,000.00	\$ 11,000.00	\$ 990.00	\$ 66,000.00
	SUBTOTAL	5,181,497	\$ 408,562.00	\$ 119,114.36	\$ 3,952,124.00	\$ 408,562.00	\$ 110,943.12	\$ 3,543,562.00
1-Dec				\$ 39,706.25			\$ 38,506.25	
1-Jun	Energy Efficiency Improv Public Bldgs	3,000,000	\$ 120,000.00	\$ 39,706.25	\$ 2,640,000.00	\$ 125,000.00	\$ 38,506.25	\$ 2,515,000.00
	SUBTOTAL	3,000,000	\$ 120,000.00	\$ 79,412.50	\$ 2,640,000.00	\$ 125,000.00	\$ 77,012.50	\$ 2,515,000.00
	G.O Bond - 06/5/15							
15-Sep				\$ 910.00			\$ 715.00	
15-Mar	Roadway	65,000	\$ 13,000.00	\$ 910.00	\$ 39,000.00	\$ 13,000.00	\$ 715.00	\$ 26,000.00
15-Sep				\$ 1,128.75			\$ 1,016.25	
15-Mar	Sidewalks	75,000	\$ 7,500.00	\$ 1,128.75	\$ 60,000.00	\$ 7,500.00	\$ 1,016.25	\$ 52,500.00
15-Sep				\$ 2,408.00			\$ 2,168.00	
15-Mar	Dump Truck	160,000	\$ 16,000.00	\$ 2,408.00	\$ 128,000.00	\$ 16,000.00	\$ 2,168.00	\$ 112,000.00
15-Sep				\$ 8,924.65			\$ 8,035.15	
15-Mar	Water & High Street Lights, Intersection	593,828	\$ 59,300.00	\$ 8,924.65	\$ 474,400.00	\$ 59,300.00	\$ 8,035.15	\$ 415,100.00
15-Sep				\$ 2,100.00			\$ 1,650.00	

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
15-Mar	Building Maintenance 2015	150,000	\$ 30,000.00	\$ 2,100.00	\$ 90,000.00	\$ 30,000.00	\$ 1,650.00	\$ 60,000.00
15-Sep				\$ 700.00			\$ 550.00	
15-Mar	Municipal IT 2015	50,000	\$ 10,000.00	\$ 700.00	\$ 30,000.00	\$ 10,000.00	\$ 550.00	\$ 20,000.00
15-Sep				\$ 1,484.00			\$ 1,166.00	
15-Mar	School IT 2015	106,422	\$ 21,200.00	\$ 1,484.00	\$ 63,600.00	\$ 21,200.00	\$ 1,166.00	\$ 42,400.00
15-Sep				\$ 2,086.00			\$ 1,639.00	
15-Mar	Carpet Replacement - School	149,263	\$ 29,800.00	\$ 2,086.00	\$ 89,400.00	\$ 29,800.00	\$ 1,639.00	\$ 59,600.00
15-Sep				\$ 2,137.10			\$ 1,924.10	
15-Mar	District Wide Paving 2015	142,058	\$ 14,200.00	\$ 2,137.10	\$ 113,600.00	\$ 14,200.00	\$ 1,924.10	\$ 99,400.00
15-Sep				\$ 9,706.13			\$ 9,211.13	
15-Mar	Fire Station Design	660,000	\$ 33,000.00	\$ 9,706.13	\$ 594,000.00	\$ 33,000.00	\$ 9,211.13	\$ 561,000.00
15-Sep				\$ 87,373.50			\$ 82,933.50	
15-Mar	Fire Station Construcion	5,940,000	\$ 296,000.00	\$ 87,373.50	\$ 5,348,000.00	\$ 296,000.00	\$ 82,933.50	\$ 5,052,000.00
		8,091,571.00	\$ 530,000.00	\$ 237,916.26	\$ 7,030,000.00	\$ 530,000.00	\$ 222,016.26	\$ 6,500,000.00
G.O Bond - 06/5/15								
15-Sep				\$ 4,037.50			\$ 3,587.50	
15-Mar	Energy Efficiency Improv Public Bldgs	273,429	\$ 30,000.00	\$ 4,037.50	\$ 210,000.00	\$ 30,000.00	\$ 3,587.50	\$ 180,000.00
		273,429.00	\$ 30,000.00	\$ 8,075.00	\$ 210,000.00	\$ 30,000.00	\$ 7,175.00	\$ 180,000.00
G. O. Bond - 6/5/15								
* Refunding Bonds - 6/1/08								
15-Sep				\$ 602.84			\$ 599.52	
15-Mar	Franklin School Roof	47,790	\$ 221.34	\$ 602.84	\$ 46,905.08	\$ 221.34	\$ 599.52	\$ 46,683.74
15-Sep				\$ 264.04			\$ 262.58	
15-Mar	Mosquito Brook Drainage	20,736	\$ 97.09	\$ 264.04	\$ 20,347.30	\$ 97.09	\$ 262.58	\$ 20,250.21
		68,526.09	\$ 318.43	\$ 1,733.76	\$ 67,252.38	\$ 318.43	\$ 1,724.20	\$ 66,933.95
Total General Debt Service			\$ 4,614,038.43	\$ 962,112.99	\$ 26,529,207.39	\$ 4,418,370.43	\$ 815,954.45	\$ 22,110,836.96
				5,576,151			5,234,325	
Total Excluded Debt			1,745,000.00	177,515.64		1,795,000.00	116,606.26	
Non-Excluded Debt			2,869,038.43	784,597.35		2,623,370.43	699,348.19	
			4,614,038.43	962,112.99		4,418,370.43	815,954.45	
				5,576,151.42			5,234,324.88	
H/S			460,250.00			446,075.00		
Other			1,462,265.64			1,465,531.26		
			1,922,515.64			1,911,606.26		
GLSD Credit				(146,703.02)			(148,536.81)	
Community Programs Credit				-			-	
Total Debt				5,429,448.40			5,085,788.07	

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
	G. O. Bond - 06/01/08	6,411,316						
15-Sep			\$ -	\$ -		\$ -	\$ -	
15-Mar	Historic Center Roadway	404,000	\$ -	\$ -		\$ -	\$ -	
15-Sep			\$ -	\$ -		\$ -	\$ -	
15-Mar	Old Center Roadway	391,891	\$ -	\$ -		\$ -	\$ -	
15-Sep			\$ -	\$ -		\$ -	\$ -	
15-Mar	Ambulance Replacement	158,539	\$ -	\$ -		\$ -	\$ -	
15-Sep			\$ -	\$ -		\$ -	\$ -	
15-Mar	Front End Loader	180,000	\$ -	\$ -		\$ -	\$ -	
15-Sep			\$ -	\$ -		\$ -	\$ -	
15-Mar	Tractor	55,000	\$ -	\$ -		\$ -	\$ -	
15-Sep			\$ -	\$ 402.50		\$ -	\$ 322.50	
15-Mar	Mosquito Brook Drainage	80,000	\$ 4,000.00	\$ 402.50	\$ 16,000.00	\$ 4,000.00	\$ 322.50	\$ 12,000.00
15-Sep				\$ 1,147.13		\$ -	\$ 919.13	
15-Mar	Franklin School Roof	216,596	\$ 11,400.00	\$ 1,147.13	\$ 45,600.00	\$ 11,400.00	\$ 919.13	\$ 34,200.00
	SUBTOTAL	1,486,026	\$ 15,400.00	\$ 3,099.26	\$ 61,600.00	\$ 15,400.00	\$ 2,483.26	\$ 46,200.00
	G. O. Bond - 6/12/08	-						
	* Refunding Bonds - 1/1/98 included							
15-Aug	Osgood Hill Land Acquisition	2,960,000						
15-Feb								
	SUBTOTAL	2,960,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	G. O. Bond - 6/12/08	-						
	* Refunding Bonds - 9/1/98							
15-Aug	Thomson Elementary School	2,070,000	\$ 225,000.00	\$ 4,359.38	\$ -			
15-Feb								
	SUBTOTAL	2,070,000	\$ 225,000.00	\$ 4,359.38	\$ -	\$ -	\$ -	\$ -
	G. O. Bond - 6/12/08	-						
	* Refunding Bonds - 1/15/98							
15-Aug	Middle School Renovation/Addition	6,455,000						
15-Feb								
15-Aug	School Planning - Sargent	1,015,000						
15-Feb								
	SUBTOTAL	7,470,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	G. O. Bond - 6/15/09							
15-Jan	Franklin Roof	597,404	\$ 57,049.00	\$ 1,140.98	\$ -			
15-Jul				\$ 1,140.98			\$ -	
15-Jan	Mosquito Brook Drainage	135,000	\$ 15,372.00	\$ 307.44	\$ -			
15-Jul				\$ 307.44			\$ -	
15-Jan	Sidewalk Construction	55,400	\$ -	\$ -	\$ -			
15-Jul				\$ -			\$ -	
15-Jan	Communications Center Upgrade	246,218	\$ 24,621.00	\$ 492.42	\$ -			
15-Jul				\$ 492.42			\$ -	
15-Jan	Town/School Data Hardware	438,770	\$ -	\$ -	\$ -			
15-Jul				\$ -			\$ -	
15-Jan	Town/School Data Software	6,230	\$ -	\$ -	\$ -			
15-Jul				\$ -			\$ -	
15-Jan	Senior Center Improvements	250,000	\$ 27,166.00	\$ 543.32	\$ -			
15-Jul				\$ 543.32			\$ -	
15-Jan	Library Technology - Hardware	56,115	\$ -	\$ -	\$ -			
15-Jul				\$ -			\$ -	
15-Jan	Library Technology - Software	18,885	\$ -	\$ -	\$ -			
15-Jul				\$ -			\$ -	
15-Jan	Radio Fire Box	160,000	\$ -	\$ -	\$ -			
15-Jul				\$ -			\$ -	
15-Jan	Ambulance Replacement	156,539	\$ 15,653.00	\$ 313.06	\$ -			
15-Jul				\$ 313.06			\$ -	
15-Jan	Fire Station Roof	30,000	\$ 4,129.00	\$ 82.58	\$ -			
15-Jul				\$ 82.58			\$ -	
15-Jan	Four Wheel Vehicle	39,174	\$ 3,917.00	\$ 78.34	\$ -			
15-Jul				\$ 78.34			\$ -	
15-Jan	Police Computer Hardware	90,526	\$ -	\$ -	\$ -			

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
15-Jul				\$ -			\$ -	
15-Jan	Police Computer Software	22,511	\$ -	\$ -	\$ -			
15-Jul				\$ -			\$ -	
15-Jan	Police Radios	228,480	\$ 22,848.00	\$ 456.96	\$ -			
15-Jul				\$ 456.96			\$ -	
15-Jan	Underground Tank	25,000	\$ 2,500.00	\$ 50.00	\$ -			
15-Jul				\$ 50.00			\$ -	
15-Jan	Sidewalk Construction	114,700	\$ -	\$ -	\$ -			
15-Jul				\$ -				
15-Jan	One Ton Dump Truck	36,000	\$ 3,600.00	\$ 72.00	\$ -			
15-Jul				\$ 72.00			\$ -	
15-Jan	One Ton Dump Truck	134,000	\$ 13,400.00	\$ 268.00	\$ -			
15-Jul				\$ 268.00			\$ -	
15-Jan	Cab Platform Truck	114,000	\$ 11,400.00	\$ 228.00	\$ -			
15-Jul				\$ 228.00			\$ -	
15-Jan	Middle School. Entry Engress	88,500	\$ 9,000.00	\$ 180.00	\$ -			
15-Jul				\$ 180.00			\$ -	
15-Jan	Sidewalks	50,000	\$ -	\$ -	\$ -			
15-Jul				\$ -				
15-Jan	Autran Avenue	90,000	\$ -	\$ -	\$ -			
15-Jul				\$ -				
15-Jan	Sidewalks	50,000	\$ -	\$ -	\$ -			
15-Jul				\$ -				
15-Jan	Ten Wheel Truck	50,937	\$ 5,093.00	\$ 101.86	\$ -			
15-Jul				\$ 101.86			\$ -	
15-Jan	Tractor	33,000	\$ 3,300.00	\$ 66.00	\$ -			
15-Jul				\$ 66.00			\$ -	
15-Jan	Tractor - Multi Purpose	141,000	\$ 14,100.00	\$ 282.00	\$ -			
15-Jul				\$ 282.00			\$ -	
15-Jan	Network Connection	31,400	\$ -	\$ -	\$ -			
15-Jul				\$ -				
15-Jan	Student Management Software	75,000	\$ -	\$ -	\$ -			
15-Jul				\$ -				
15-Jan	Firearms	54,000	\$ 5,400.00	\$ 108.00	\$ -			
15-Jul				\$ 108.00			\$ -	
15-Jan	EMS Reporting - Hardware	20,304	\$ 2,030.00	\$ 40.60	\$ -			
15-Jul				\$ 40.60			\$ -	
15-Jan	EMS Reporting - Software	29,696	\$ -	\$ -	\$ -			
15-Jul				\$ -				
15-Jan	Computer System - Hardware	147,075	\$ 14,707.00	\$ 294.14	\$ -			
15-Jul				\$ 294.14			\$ -	
15-Jan	Computer System - Software	37,925	\$ -	\$ -	\$ -			
15-Jul				\$ -				
15-Jan	Police Station	1,200,000	\$ 60,000.00	\$ 13,290.00	\$ 600,000.00	\$ 60,000.00	\$ 12,090.00	\$ 540,000.00
15-Jul				\$ 13,290.00			\$ 12,090.00	
15-Jan	Pre School Facility	2,068,345	\$ 108,484.00	\$ 22,492.18	\$ 1,015,000.00	\$ 115,000.00	\$ 20,322.50	\$ 900,000.00
15-Jul				\$ 22,492.18			\$ 20,322.50	
	SUBTOTAL	7,122,134	\$ 423,769.00	\$ 81,775.76	\$ 1,615,000.00	\$ 175,000.00	\$ 64,825.00	\$ 1,440,000.00
G. O. Bond - 12/15/09								
15-Jul	Autran Avenue			\$ -	\$ -		\$ -	
15-Jan		235,000	\$ -	\$ -		\$ -	\$ -	
15-Jul	Sidewalk Construction			\$ -			\$ -	
15-Jan		72,200		\$ -	\$ -		\$ -	\$ -
15-Jul	Police Station			\$ 37,497.50			\$ 34,410.00	
15-Jan		3,563,000	\$ 190,000.00	\$ 37,497.50	\$ 1,850,000.00	\$ 185,000.00	\$ 34,410.00	\$ 1,665,000.00
15-Jul	Modular Class Rooms			\$ -			\$ -	
15-Jan		301,022		\$ -	\$ -		\$ -	\$ -
	SUBTOTAL	4,171,222	\$ 190,000.00	\$ 74,995.00	\$ 1,850,000.00	\$ 185,000.00	\$ 68,820.00	\$ 1,665,000.00
G.O Bond - 02/17/2011								
15-Aug	Police Repairs	114,353	\$ 11,435.00	\$ 628.93	\$ 22,870.00	\$ 11,435.00	\$ 414.52	\$ 11,435.00
15-Feb				\$ 414.52			\$ 214.41	
15-Aug	Roadway	380,000			\$ -			\$ -
15-Feb								

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
15-Aug	Sidewalk	50,000			\$ -			\$ -
15-Feb								
15-Aug	Senior Center Roof	26,000	\$ 2,600.00	\$ 143.00	\$ 5,200.00	\$ 2,600.00	\$ 94.25	\$ 2,600.00
15-Feb				\$ 94.25			\$ 48.75	
15-Aug	Master Plan	150,000			\$ -			\$ -
15-Feb								
15-Aug	Police Equipment	405,000	\$ 40,500.00	\$ 2,227.50	\$ 81,000.00	\$ 40,500.00	\$ 1,468.13	\$ 40,500.00
15-Feb				\$ 1,468.13			\$ 759.38	
15-Aug	School IT Network Equipment	863,000	\$ 86,300.00	\$ 4,746.50	\$ 172,600.00	\$ 86,300.00	\$ 3,128.38	\$ 86,300.00
15-Feb				\$ 3,128.38			\$ 1,618.13	
15-Aug	Revenue Billing System	15,000			\$ -			\$ -
15-Feb								
15-Aug	Body Armor Replacement	40,000			\$ -			\$ -
15-Feb								
15-Aug	Fire Dept Radio Equipment	432,000	\$ 43,200.00	\$ 2,376.00	\$ 86,400.00	\$ 43,200.00	\$ 1,566.00	\$ 43,200.00
15-Feb				\$ 1,566.00			\$ 810.00	
15-Aug	Dump Truck , 2, ton w/plow	55,000	\$ 5,500.00	\$ 302.50	\$ 11,000.00	\$ 5,500.00	\$ 199.38	\$ 5,500.00
15-Feb				\$ 199.38			\$ 103.13	
15-Aug	Fire Sprinkler - Kittridge School	75,000	\$ 7,500.00	\$ 412.50	\$ 15,000.00	\$ 7,500.00	\$ 271.88	\$ 7,500.00
15-Feb				\$ 271.88			\$ 140.63	
15-Aug	Fire Trucks	1,300,000	\$ 134,465.00	\$ 6,739.33	\$ 233,930.00	\$ 134,465.00	\$ 4,218.11	\$ 99,465.00
15-Feb				\$ 4,218.11			\$ 1,864.97	
15-Aug	Library HVAC System	460,000	\$ 46,000.00	\$ 2,530.00	\$ 92,000.00	\$ 46,000.00	\$ 1,667.50	\$ 46,000.00
15-Feb				\$ 1,667.50			\$ 862.50	
	SUBTOTAL	4,365,353	\$ 377,500.00	\$ 33,134.41	\$ 720,000.00	\$ 377,500.00	\$ 19,450.05	\$ 342,500.00
	G.O Bond - 05/17/2012							
15-Nov				\$ 660.00			\$ 495.00	
15-May	Kittridge Fire Sprinkler	165,000	\$ 16,500.00	\$ 660.00	\$ 49,500.00	\$ 16,500.00	\$ 495.00	\$ 33,000.00
15-Nov								
15-May	Roadway	342,192			\$ -			\$ -
15-Nov								
15-May	Fire Box	53,011			\$ -			\$ -
15-Nov								
15-May	Internat Telephone	375,000			\$ -			\$ -
15-Nov				\$ 5,587.80			\$ 5,219.14	
15-May	Middle School Roof Replacement	746,174	\$ 36,866.00	\$ 5,587.80	\$ 462,601.00	\$ 36,866.00	\$ 5,219.14	\$ 425,735.00
15-Nov								
15-May	Defibrillator Replacement	43,000			\$ -			\$ -
15-Nov								
15-May	Police Parking Lot	125,000			\$ -			\$ -
15-Nov								
15-May	DPW Generator	38,000			\$ -			\$ -
15-Nov								
15-May	School Data	82,000			\$ -			\$ -
15-Nov								
15-May	Vehicle Fuel Pump System	45,000			\$ -			\$ -
15-Nov				\$ 730.31			\$ 547.73	
15-May	Dump Truck w/plow,sander and basin cleaner	182,579	\$ 18,258.00	\$ 730.31	\$ 54,773.00	\$ 18,258.00	\$ 547.73	\$ 36,515.00
15-Nov				\$ 1,164.48			\$ 873.36	
15-May	Sargent School Roof Replacement	291,124	\$ 29,112.00	\$ 1,164.48	\$ 87,336.00	\$ 29,112.00	\$ 873.36	\$ 58,224.00
15-Nov				\$ 4,051.92			\$ 3,736.28	
15-May	Atkinson School Windows Replacement	531,268	\$ 31,564.00	\$ 4,051.92	\$ 330,690.00	\$ 36,564.00	\$ 3,736.28	\$ 294,126.00
15-Nov				\$ 1,683.00			\$ 1,521.00	
15-May	Middle School Roof Replacement	224,000	\$ 16,200.00	\$ 1,683.00	\$ 135,600.00	\$ 11,200.00	\$ 1,521.00	\$ 124,400.00
15-Nov				\$ 48.00			\$ 36.00	
15-May	Sargent School Roof Replacement	12,000	\$ 1,200.00	\$ 48.00	\$ 3,600.00	\$ 1,200.00	\$ 36.00	\$ 2,400.00
	SUBTOTAL	3,255,348	\$ 149,700.00	\$ 27,851.02	\$ 1,124,100.00	\$ 149,700.00	\$ 24,857.02	\$ 974,400.00
	G.O Bond - 06/24/13							
1-Dec				\$ -			\$ -	
1-Jun	Roadways	476,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ 222.20			\$ 166.65	
1-Jun	Sidewalks	50,000	\$ 5,555.00	\$ 222.20	\$ 16,665.00	\$ 5,555.00	\$ 166.65	\$ 11,110.00
1-Dec				\$ -			\$ -	
1-Jun	Building Maintenance	50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ -			\$ -	
1-Jun	Fire Chief Vehicle	29,273	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
1-Dec				\$ -			\$ -	
1-Jun	Mobile Data Terminals	90,258	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ -			\$ -	
1-Jun	General IT	40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ -			\$ -	
1-Jun	School IT	165,098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ 110.52			\$ 82.89	
1-Jun	MSBA - Middle and Atkinson Roof Replacements	24,870	\$ 2,763.00	\$ 110.52	\$ 8,289.00	\$ 2,763.00	\$ 82.89	\$ 5,526.00
	SUBTOTAL	926,199	\$ 8,318.00	\$ 665.44	\$ 24,954.00	\$ 8,318.00	\$ 499.08	\$ 16,636.00
	G. O. Bond - Refunding Series B Bonds 2005-							
15-Aug	New High School	2,275,000	\$ 215,000.00	\$ 20,925.00	\$ 1,180,000.00	\$ 210,000.00	\$ 17,700.00	\$ 970,000.00
15-Feb				\$ 17,700.00			\$ 14,550.00	
	SUBTOTAL	2,275,000	\$ 215,000.00	\$ 38,625.00	\$ 1,180,000.00	\$ 210,000.00	\$ 32,250.00	\$ 970,000.00
	G. O. Bond - Refunding Series B Bonds 2005-							
15-Aug	New High School	1,735,000	\$ 145,000.00	\$ 16,875.00	\$ 980,000.00	\$ 145,000.00	\$ 14,700.00	\$ 835,000.00
15-Feb				\$ 14,700.00			\$ 12,525.00	
	SUBTOTAL	1,735,000	\$ 145,000.00	\$ 31,575.00	\$ 980,000.00	\$ 145,000.00	\$ 27,225.00	\$ 835,000.00
	G.O Bond - 06/17/14							
1-Dec				\$ 3,166.63			\$ 2,964.50	
1-Jun	Central Office	269,500	\$ 13,475.00	\$ 3,166.63	\$ 202,125.00	\$ 13,475.00	\$ 2,964.50	\$ 188,650.00
1-Dec				\$ 1,057.50			\$ 990.00	
1-Jun	Kittridge School Gym	90,000	\$ 4,500.00	\$ 1,057.50	\$ 67,500.00	\$ 4,500.00	\$ 990.00	\$ 63,000.00
1-Dec				\$ 1,914.48			\$ 1,555.52	
1-Jun	Ambulance	239,312	\$ 23,931.00	\$ 1,914.48	\$ 119,655.00	\$ 23,931.00	\$ 1,555.52	\$ 95,724.00
1-Dec				\$ 931.56			\$ -	
1-Jun	Roadway 2014	310,524	\$ 62,104.00	\$ 931.56	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ 600.00			\$ 487.50	
1-Jun	Sidewalks 2014	75,000	\$ 7,500.00	\$ 600.00	\$ 37,500.00	\$ 7,500.00	\$ 487.50	\$ 30,000.00
1-Dec				\$ 450.00			\$ -	
1-Jun	Building Maintenance 2014	150,000	\$ 30,000.00	\$ 450.00	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ 1,840.00			\$ 1,495.00	
1-Jun	Front End Loader	230,000	\$ 23,000.00	\$ 1,840.00	\$ 115,000.00	\$ 23,000.00	\$ 1,495.00	\$ 92,000.00
1-Dec				\$ 741.52			\$ 602.49	
1-Jun	District Wide Paving - School	92,691	\$ 9,269.00	\$ 741.52	\$ 46,345.00	\$ 9,269.00	\$ 602.49	\$ 37,076.00
1-Dec				\$ 38,042.35			\$ 35,635.00	
1-Jun	Facilities Master Plan 2014	3,235,500	\$ 160,490.00	\$ 38,042.35	\$ 2,429,375.00	\$ 162,825.00	\$ 35,635.00	\$ 2,266,550.00
1-Dec				\$ 230.51			\$ -	
1-Jun	IT Room Air Conditioning	76,839	\$ 15,367.00	\$ 230.51	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ 150.00			\$ -	
1-Jun	Municipal IT	50,000	\$ 10,000.00	\$ 150.00	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ 1,000.00			\$ 812.50	
1-Jun	Tractor & Brush Cutter	125,000	\$ 12,500.00	\$ 1,000.00	\$ 62,500.00	\$ 12,500.00	\$ 812.50	\$ 50,000.00
1-Dec				\$ 381.39			\$ -	
1-Jun	School Dept IT	127,131	\$ 25,426.00	\$ 381.39	\$ -	\$ -	\$ -	\$ -
1-Dec				\$ 880.00			\$ 715.00	
1-Jun	Water & High Street Lights, Intersection	110,000	\$ 11,000.00	\$ 880.00	\$ 55,000.00	\$ 11,000.00	\$ 715.00	\$ 44,000.00
	SUBTOTAL	5,181,497	\$ 408,562.00	\$ 102,771.88	\$ 3,135,000.00	\$ 268,000.00	\$ 90,515.02	\$ 2,867,000.00
1-Dec				\$ 37,256.25			\$ 35,381.25	
1-Jun	Energy Efficiency Improv Public Bldgs	3,000,000	\$ 125,000.00	\$ 37,256.25	\$ 2,390,000.00	\$ 130,000.00	\$ 35,381.25	\$ 2,260,000.00
	SUBTOTAL	3,000,000	\$ 125,000.00	\$ 74,512.50	\$ 2,390,000.00	\$ 130,000.00	\$ 70,762.50	\$ 2,260,000.00
	G.O Bond - 06/5/15							
15-Sep				\$ -	\$ 455.00	\$ -	\$ 195.00	
15-Mar	Roadway	65,000	\$ 13,000.00	\$ 455.00	\$ 13,000.00	\$ 13,000.00	\$ 195.00	\$ -
15-Sep				\$ -	\$ 866.25	\$ -	\$ 716.25	
15-Mar	Sidewalks	75,000	\$ 7,500.00	\$ 866.25	\$ 45,000.00	\$ 7,500.00	\$ 716.25	\$ 37,500.00
15-Sep				\$ -	\$ 1,848.00	\$ -	\$ 1,528.00	
15-Mar	Dump Truck	160,000	\$ 16,000.00	\$ 1,848.00	\$ 96,000.00	\$ 16,000.00	\$ 1,528.00	\$ 80,000.00
15-Sep				\$ -	\$ 6,849.15	\$ -	\$ 5,663.15	
15-Mar	Water & High Street Lights, Intersection	593,828	\$ 59,300.00	\$ 6,849.15	\$ 355,800.00	\$ 59,300.00	\$ 5,663.15	\$ 296,500.00
15-Sep				\$ -	\$ 1,050.00	\$ -	\$ 450.00	

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
15-Mar	Building Maintenance 2015	150,000	\$ 30,000.00	\$ 1,050.00	\$ 30,000.00	\$ 30,000.00	\$ 450.00	\$ -
15-Sep			\$ -	\$ 350.00		\$ -	\$ 150.00	
15-Mar	Municipal IT 2015	50,000	\$ 10,000.00	\$ 350.00	\$ 10,000.00	\$ 10,000.00	\$ 150.00	\$ -
15-Sep			\$ -	\$ 742.00		\$ -	\$ 318.00	
15-Mar	School IT 2015	106,422	\$ 21,200.00	\$ 742.00	\$ 21,200.00	\$ 21,200.00	\$ 318.00	\$ -
15-Sep			\$ -	\$ 1,043.00		\$ -	\$ 447.00	
15-Mar	Carpet Replacement - School	149,263	\$ 29,800.00	\$ 1,043.00	\$ 29,800.00	\$ 29,800.00	\$ 447.00	\$ -
15-Sep			\$ -	\$ 1,640.10		\$ -	\$ 1,356.10	
15-Mar	District Wide Paving 2015	142,058	\$ 14,200.00	\$ 1,640.10	\$ 85,200.00	\$ 14,200.00	\$ 1,356.10	\$ 71,000.00
15-Sep			\$ -	\$ 8,551.13		\$ -	\$ 7,891.13	
15-Mar	Fire Station Design	660,000	\$ 33,000.00	\$ 8,551.13	\$ 528,000.00	\$ 33,000.00	\$ 7,891.13	\$ 495,000.00
15-Sep			\$ -	\$ 77,013.50		\$ -	\$ 71,093.50	
15-Mar	Fire Station Constructon	5,940,000	\$ 296,000.00	\$ 77,013.50	\$ 4,756,000.00	\$ 296,000.00	\$ 71,093.50	\$ 4,460,000.00
		8,091,571.00	\$ 530,000.00	\$ 200,816.26	\$ 5,970,000.00	\$ 530,000.00	\$ 179,616.26	\$ 5,440,000.00
G.O Bond - 06/5/15								
15-Sep			\$ -	\$ 2,987.50		\$ -	\$ 2,387.50	
15-Mar	Energy Efficiency Improv Public Bldgs	273,429	\$ 30,000.00	\$ 2,987.50	\$ 150,000.00	\$ 25,000.00	\$ 2,387.50	\$ 125,000.00
		273,429.00	\$ 30,000.00	\$ 5,975.00	\$ 150,000.00	\$ 25,000.00	\$ 4,775.00	\$ 125,000.00
G. O. Bond - 6/5/15								
		-						
* Refunding Bonds - 6/1/08								
15-Sep				\$ 595.10		\$ -	\$ 590.67	
15-Mar	Franklin School Roof	47,790	\$ 221.34	\$ 595.10	\$ 46,462.40	\$ 221.34	\$ 590.67	\$ 46,241.06
15-Sep				\$ 260.64			\$ 258.70	
15-Mar	Mosquito Brook Drainage	20,736	\$ 97.09	\$ 260.64	\$ 20,153.12	\$ 97.09	\$ 258.70	\$ 20,056.03
		68,526.09	\$ 318.43	\$ 1,711.48	\$ 66,615.52	\$ 318.43	\$ 1,698.74	\$ 66,297.09
Total General Debt Service			\$ 2,843,567.43	\$ 681,867.39	\$ 19,267,269.53	\$ 2,219,236.43	\$ 587,776.93	\$ 17,048,033.10
				3,525,435			2,807,013	
Total Excluded Debt			585,000.00	74,559.38		355,000.00	59,475.00	
Non-Excluded Debt			2,258,567.43	607,308.01		1,864,236.43	528,301.93	
			2,843,567.43	681,867.39		2,219,236.43	587,776.93	
				3,525,434.82			2,807,013.36	
H/S			430,200.00			414,475.00		
Other			229,359.38			-		
			659,559.38			414,475.00		
GLSD Credit				(150,393.52)			(152,273.44)	
Community Programs Credit				-			-	
Total Debt				3,375,041.30			2,654,739.92	

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
G. O. Bond - 06/01/08		6,411,316			
15-Sep			\$ -	\$ -	
15-Mar	Historic Center Roadway	404,000	\$ -	\$ -	
15-Sep			\$ -	\$ -	
15-Mar	Old Center Roadway	391,891	\$ -	\$ -	
15-Sep			\$ -	\$ -	
15-Mar	Ambulance Replacement	158,539	\$ -	\$ -	
15-Sep			\$ -	\$ -	
15-Mar	Front End Loader	180,000	\$ -	\$ -	
15-Sep			\$ -	\$ -	
15-Mar	Tractor	55,000	\$ -	\$ -	
15-Sep				\$ 242.50	
15-Mar	Mosquito Brook Drainage	80,000	\$ 4,000.00	\$ 242.50	\$ 8,000.00
15-Sep				\$ 691.13	
15-Mar	Franklin School Roof	216,596	\$ 11,400.00	\$ 691.13	\$ 22,800.00
	SUBTOTAL	1,486,026	\$ 15,400.00	\$ 1,867.26	\$ 30,800.00
G. O. Bond - 6/12/08		-			
* Refunding Bonds - 1/1/98 included					
15-Aug	Osgood Hill Land Acquisition	2,960,000			
15-Feb					
	SUBTOTAL	2,960,000	\$ -	\$ -	\$ -
G. O. Bond - 6/12/08		-			
* Refunding Bonds - 9/1/98					
15-Aug	Thomson Elementary School	2,070,000			
15-Feb					
	SUBTOTAL	2,070,000	\$ -	\$ -	\$ -
G. O. Bond - 6/12/08		-			
* Refunding Bonds - 1/15/98					
15-Aug	Middle School Renovation/Addition	6,455,000			
15-Feb					
15-Aug	School Planning - Sargent	1,015,000			
15-Feb					
	SUBTOTAL	7,470,000	\$ -	\$ -	\$ -
G. O. Bond - 6/15/09					
15-Jan	Franklin Roof	597,404			
15-Jul					
15-Jan	Mosquito Brook Drainage	135,000			
15-Jul					
15-Jan	Sidewalk Construction	55,400			
15-Jul					
15-Jan	Communications Center Upgrade	246,218			
15-Jul					
15-Jan	Town/School Data Hardware	438,770			
15-Jul					
15-Jan	Town/School Data Software	6,230			
15-Jul					
15-Jan	Senior Center Improvements	250,000			
15-Jul					
15-Jan	Library Technology - Hardware	56,115			
15-Jul					
15-Jan	Library Technology - Software	18,885			
15-Jul					
15-Jan	Radio Fire Box	160,000			
15-Jul					
15-Jan	Ambulance Replacement	156,539			
15-Jul					
15-Jan	Fire Station Roof	30,000			
15-Jul					
15-Jan	Four Wheel Vehicle	39,174			
15-Jul					
15-Jan	Police Computer Hardware	90,526			

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
15-Jul					
15-Jan	Police Computer Software	22,511			
15-Jul					
15-Jan	Police Radios	228,480			
15-Jul					
15-Jan	Underground Tank	25,000			
15-Jul					
15-Jan	Sidewalk Construction	114,700			
15-Jul					
15-Jan	One Ton Dump Truck	36,000			
15-Jul					
15-Jan	One Ton Dump Truck	134,000			
15-Jul					
15-Jan	Cab Platform Truck	114,000			
15-Jul					
15-Jan	Middle School. Entry Engress	88,500			
15-Jul					
15-Jan	Sidewalks	50,000			
15-Jul					
15-Jan	Autran Avenue	90,000			
15-Jul					
15-Jan	Sidewalks	50,000			
15-Jul					
15-Jan	Ten Wheel Truck	50,937			
15-Jul					
15-Jan	Tractor	33,000			
15-Jul					
15-Jan	Tractor - Multi Purpose	141,000			
15-Jul					
15-Jan	Network Connection	31,400			
15-Jul					
15-Jan	Student Management Software	75,000			
15-Jul					
15-Jan	Firearms	54,000			
15-Jul					
15-Jan	EMS Reporting - Hardware	20,304			
15-Jul					
15-Jan	EMS Reporting - Software	29,696			
15-Jul					
15-Jan	Computer System - Hardware	147,075			
15-Jul					
15-Jan	Computer System - Software	37,925			
15-Jul					
15-Jan	Police Station	1,200,000	\$ 60,000.00	\$ 11,115.00	\$ 480,000.00
15-Jul				\$ 11,115.00	
15-Jan	Pre School Facility	2,068,345	\$ 115,000.00	\$ 18,453.75	\$ 785,000.00
15-Jul				\$ 18,453.75	
	SUBTOTAL	7,122,134	\$ 175,000.00	\$ 59,137.50	\$ 1,265,000.00
G. O. Bond - 12/15/09					
15-Jul	Autran Avenue			\$ -	
15-Jan		235,000	\$ -	\$ -	
15-Jul	Sidewalk Construction			\$ -	
15-Jan		72,200		\$ -	\$ -
15-Jul	Police Station			\$ 31,635.00	
15-Jan		3,563,000	\$ 185,000.00	\$ 31,635.00	\$ 1,480,000.00
15-Jul	Modular Class Rooms			\$ -	
15-Jan		301,022		\$ -	\$ -
	SUBTOTAL	4,171,222	\$ 185,000.00	\$ 63,270.00	\$ 1,480,000.00
G.O Bond - 02/17/2011					
15-Aug	Police Repairs	114,353	\$ 11,435.00	\$ 214.41	\$ -
15-Feb					
15-Aug	Roadway	380,000			\$ -
15-Feb					

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
15-Aug	Sidewalk	50,000			\$ -
15-Feb					
15-Aug	Senior Center Roof	26,000	\$ 2,600.00	\$ 48.75	\$ -
15-Feb					
15-Aug	Master Plan	150,000			\$ -
15-Feb					
15-Aug	Police Equipment	405,000	\$ 40,500.00	\$ 759.38	\$ -
15-Feb					
15-Aug	School IT Network Equipment	863,000	\$ 86,300.00	\$ 1,618.13	\$ -
15-Feb					
15-Aug	Revenue Billing System	15,000			\$ -
15-Feb					
15-Aug	Body Armor Replacement	40,000			\$ -
15-Feb					
15-Aug	Fire Dept Radio Equipment	432,000	\$ 43,200.00	\$ 810.00	\$ -
15-Feb					
15-Aug	Dump Truck , 2, ton w/plow	55,000	\$ 5,500.00	\$ 103.13	\$ -
15-Feb					
15-Aug	Fire Sprinkler - Kittridge School	75,000	\$ 7,500.00	\$ 140.63	\$ -
15-Feb					
15-Aug	Fire Trucks	1,300,000	\$ 99,465.00	\$ 1,864.97	\$ -
15-Feb					
15-Aug	Library HVAC System	460,000	\$ 46,000.00	\$ 862.50	\$ -
15-Feb					
	SUBTOTAL	4,365,353	\$ 342,500.00	\$ 6,421.90	\$ -
	G.O Bond - 05/17/2012				
15-Nov				\$ 330.00	
15-May	Kittridge Fire Sprinkler	165,000	\$ 16,500.00	\$ 330.00	\$ 16,500.00
15-Nov					
15-May	Roadway	342,192			\$ -
15-Nov					
15-May	Fire Box	53,011			\$ -
15-Nov					
15-May	Internat Telephone	375,000			\$ -
15-Nov				\$ 4,850.48	
15-May	Middle School Roof Replacement	746,174	\$ 36,867.00	\$ 4,850.48	\$ 388,868.00
15-Nov					
15-May	Defibrillator Replacement	43,000			\$ -
15-Nov					
15-May	Police Parking Lot	125,000			\$ -
15-Nov					
15-May	DPW Generator	38,000			\$ -
15-Nov					
15-May	School Data	82,000			\$ -
15-Nov					
15-May	Vehicle Fuel Pump System	45,000			\$ -
15-Nov				\$ 365.15	
15-May	Dump Truck w/plow,sander and basin cleaner	182,579	\$ 18,258.00	\$ 365.15	\$ 18,257.00
15-Nov				\$ 582.24	
15-May	Sargent School Roof Replacement	291,124	\$ 29,112.00	\$ 582.24	\$ 29,112.00
15-Nov				\$ 3,370.64	
15-May	Atkinson School Windows Replacement	531,268	\$ 26,563.00	\$ 3,370.64	\$ 267,563.00
15-Nov				\$ 1,409.00	
15-May	Middle School Roof Replacement	224,000	\$ 11,200.00	\$ 1,409.00	\$ 113,200.00
15-Nov				\$ 24.00	
15-May	Sargent School Roof Replacement	12,000	\$ 1,200.00	\$ 24.00	\$ 1,200.00
	SUBTOTAL	3,255,348	\$ 139,700.00	\$ 21,863.02	\$ 834,700.00
	G.O Bond - 06/24/13				
1-Dec				\$ -	
1-Jun	Roadways	476,700	\$ -	\$ -	\$ -
1-Dec				\$ 111.10	
1-Jun	Sidewalks	50,000	\$ 5,555.00	\$ 111.10	\$ 5,555.00
1-Dec				\$ -	
1-Jun	Building Maintenance	50,000	\$ -	\$ -	\$ -
1-Dec				\$ -	
1-Jun	Fire Chief Vehicle	29,273	\$ -	\$ -	\$ -

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
1-Dec				\$ -	
1-Jun	Mobile Data Terminals	90,258	\$ -	\$ -	\$ -
1-Dec				\$ -	
1-Jun	General IT	40,000	\$ -	\$ -	\$ -
1-Dec				\$ -	
1-Jun	School IT	165,098	\$ -	\$ -	\$ -
1-Dec				\$ 55.26	
1-Jun	MSBA - Middle and Atkinson Roof Replacements	24,870	\$ 2,763.00	\$ 55.26	\$ 2,763.00
	SUBTOTAL	926,199	\$ 8,318.00	\$ 332.72	\$ 8,318.00
G. O. Bond - Refunding Series B Bonds 2005-					
15-Aug	New High School	2,275,000	\$ 210,000.00	\$ 14,550.00	\$ 760,000.00
15-Feb				\$ 11,400.00	
	SUBTOTAL	2,275,000	\$ 210,000.00	\$ 25,950.00	\$ 760,000.00
G. O. Bond - Refunding Series B Bonds 2005-					
15-Aug	New High School	1,735,000	\$ 145,000.00	\$ 12,525.00	\$ 690,000.00
15-Feb				\$ 10,350.00	
	SUBTOTAL	1,735,000	\$ 145,000.00	\$ 22,875.00	\$ 690,000.00
G.O Bond - 06/17/14					
1-Dec				\$ 2,762.38	
1-Jun	Central Office	269,500	\$ 13,475.00	\$ 2,762.38	\$ 175,175.00
1-Dec				\$ 922.50	
1-Jun	Kittridge School Gym	90,000	\$ 4,500.00	\$ 922.50	\$ 58,500.00
1-Dec				\$ 1,196.55	
1-Jun	Ambulance	239,312	\$ 23,931.00	\$ 1,196.55	\$ 71,793.00
1-Dec				\$ -	
1-Jun	Roadway 2014	310,524	\$ -	\$ -	\$ -
1-Dec				\$ 375.00	
1-Jun	Sidewalks 2014	75,000	\$ 7,500.00	\$ 375.00	\$ 22,500.00
1-Dec				\$ -	
1-Jun	Building Maintenance 2014	150,000	\$ -	\$ -	\$ -
1-Dec				\$ 1,150.00	
1-Jun	Front End Loader	230,000	\$ 23,000.00	\$ 1,150.00	\$ 69,000.00
1-Dec				\$ 463.45	
1-Jun	District Wide Paving - School	92,691	\$ 9,269.00	\$ 463.45	\$ 27,807.00
1-Dec				\$ 33,192.63	
1-Jun	Facilities Master Plan 2014	3,235,500	\$ 162,825.00	\$ 33,192.63	\$ 2,103,725.00
1-Dec				\$ -	
1-Jun	IT Room Air Conditioning	76,839	\$ -	\$ -	\$ -
1-Dec				\$ -	
1-Jun	Municipal IT	50,000	\$ -	\$ -	\$ -
1-Dec				\$ 625.00	
1-Jun	Tractor & Brush Cutter	125,000	\$ 12,500.00	\$ 625.00	\$ 37,500.00
1-Dec				\$ -	
1-Jun	School Dept IT	127,131	\$ -	\$ -	\$ -
1-Dec				\$ 550.00	
1-Jun	Water & High Street Lights, Intersection	110,000	\$ 11,000.00	\$ 550.00	\$ 33,000.00
	SUBTOTAL	5,181,497	\$ 268,000.00	\$ 82,475.02	\$ 2,599,000.00
1-Dec				\$ 33,431.25	
1-Jun	Energy Efficiency Improv Public Bldgs	3,000,000	\$ 135,000.00	\$ 33,431.25	\$ 2,125,000.00
	SUBTOTAL	3,000,000	\$ 135,000.00	\$ 66,862.50	\$ 2,125,000.00
G.O Bond - 06/5/15					
15-Sep			\$ -	\$ -	
15-Mar	Roadway	65,000	\$ -	\$ -	
15-Sep				\$ 603.75	
15-Mar	Sidewalks	75,000	\$ 7,500.00	\$ 603.75	\$ 30,000.00
15-Sep				\$ 1,288.00	
15-Mar	Dump Truck	160,000	\$ 16,000.00	\$ 1,288.00	\$ 64,000.00
15-Sep				\$ 4,773.65	
15-Mar	Water & High Street Lights, Intersection	593,828	\$ 59,300.00	\$ 4,773.65	\$ 237,200.00
15-Sep			\$ -	\$ -	

Current General Obligation Debt Schedule

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
15-Mar	Building Maintenance 2015	150,000	\$ -	\$ -	
15-Sep			\$ -	\$ -	
15-Mar	Municipal IT 2015	50,000	\$ -	\$ -	
15-Sep			\$ -	\$ -	
15-Mar	School IT 2015	106,422	\$ -	\$ -	
15-Sep			\$ -	\$ -	
15-Mar	Carpet Replacement - School	149,263	\$ -	\$ -	
15-Sep			\$ -	\$ 1,143.10	
15-Mar	District Wide Paving 2015	142,058	\$ 14,200.00	\$ 1,143.10	\$ 56,800.00
15-Sep			\$ -	\$ 7,396.13	
15-Mar	Fire Station Design	660,000	\$ 33,000.00	\$ 7,396.13	\$ 462,000.00
15-Sep			\$ -	\$ 66,653.50	
15-Mar	Fire Station Construcion	5,940,000	\$ 300,000.00	\$ 66,653.50	\$ 4,160,000.00
		8,091,571.00	\$ 430,000.00	\$ 163,716.26	\$ 5,010,000.00
G.O Bond - 06/5/15					
15-Sep			\$ -	\$ 2,012.50	
15-Mar	Energy Efficiency Improv Public Bldgs	273,429	\$ 25,000.00	\$ 2,012.50	\$ 100,000.00
		273,429.00	\$ 25,000.00	\$ 4,025.00	\$ 100,000.00
G. O. Bond - 6/5/15					
		-			
* Refunding Bonds - 6/1/08					
15-Sep				\$ 587.35	
15-Mar	Franklin School Roof	47,790	\$ 221.34	\$ 587.35	\$ 46,019.72
15-Sep				\$ 257.24	
15-Mar	Mosquito Brook Drainage	20,736	\$ 97.09	\$ 257.24	\$ 19,958.94
		68,526.09	\$ 318.43	\$ 1,689.18	\$ 65,978.66
Total General Debt Service			\$ 2,079,236.43	\$ 520,485.36	\$ 14,968,796.67
				2,599,722	
Total Excluded Debt			355,000.00	48,825.00	
Non-Excluded Debt			1,724,236.43	471,660.36	
			2,079,236.43	520,485.36	
				2,599,721.79	
H/S			403,825.00		
Other			-		
			403,825.00		
GLSD Credit				(154,176.85)	
Community Programs Credit				-	
Total Debt				2,445,544.94	

SEWER ENTERPRISE FUND

Recommended Sewer Capital Budget Projects by Criteria Points and Year Funded (FY17-FY21)

Project Name	Division	Criteria Points	Borrowing Period	Year 1	Year 2	Year 3	Year 4	Year 5	Total
				FY17	FY18	FY19	FY20	FY21	
Improvements to various Sewer Pump Stations	Sewer			\$150,000	\$100,000	\$100,000	\$100,000	\$250,000	\$700,000
Sewer Collections System Improvements	Sewer					\$100,000	\$200,000		\$300,000
Osgood Street Sewer Preliminary Design	Sewer						\$300,000		\$300,000
TOTAL				\$150,000	\$100,000	\$200,000	\$600,000	\$250,000	\$1,300,000
Use of Retained Earnings				(\$150,000)	(\$100,000)	(\$200,000)	(\$600,000)	(\$250,000)	(\$1,300,000)
Net Borrow				\$0	\$0	\$0	\$0	\$0	\$0

Requested Sewer Capital Budget Projects (FY17 - FY21)

Project Name	Division	Div. Priority	Year 1	Year 2	Year 3	Year 4	Year 5	Total
			FY17	FY18	FY19	FY20	FY21	
Improvements to various Sewer Pump Stations	Sewer	1	\$150,000	\$100,000	\$100,000	\$100,000	\$250,000	\$700,000
Sewer Collections System Improvements	Sewer	2			\$100,000	\$200,000		\$300,000
Osgood Street Sewer Preliminary Design	Sewer	3				\$300,000		\$300,000
TOTAL			\$150,000	\$100,000	\$200,000	\$600,000	\$250,000	\$1,300,000

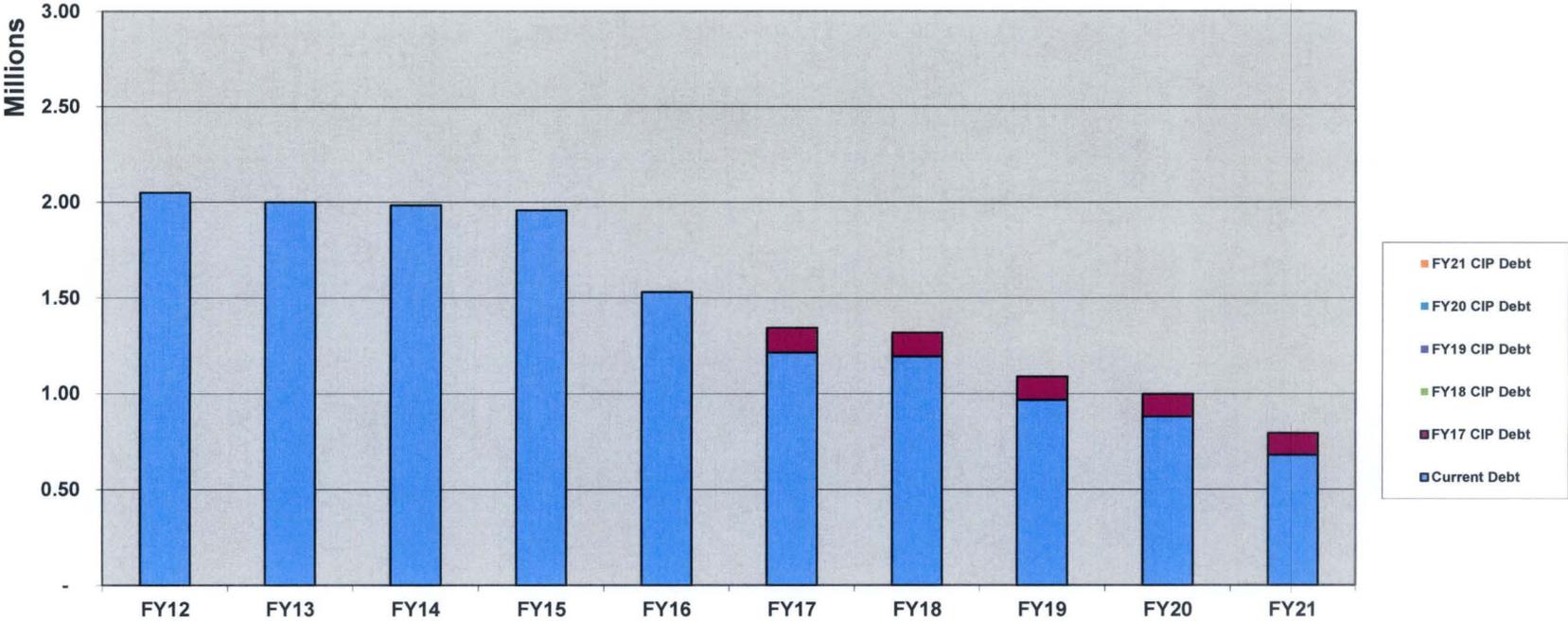
% of Debt Service to Operating Budget Summary. Sewer. Capital Budget, FY17 -FY21

Sewer Fund	Actual FY 2014	Actual FY 2015	Budget FY 2016	Projected FY 2017	Projected FY 2018	Projected FY 2019	Projected FY 2020	Projected FY 2021
Sewer Debt	1,982,954	1,956,938	1,523,500	1,214,422	1,194,032	966,954	879,795	679,264
P/Y Authorized but not Funded	-	-	-	130,010	125,520	121,740	117,960	114,180
Subtotal	1,982,954	1,956,938	1,523,500	1,344,433	1,319,552	1,088,694	997,755	793,444
New - CIP Sewer Debt Service	-	-	-	-	-	-	-	-
Total Debt Service	1,982,954	1,956,938	1,523,500	1,344,433	1,319,552	1,088,694	997,755	793,444
Operating Budget	2,313,835	2,611,736	4,434,936	4,499,231	4,564,459	4,630,633	4,697,766	4,765,872
% Budget Increase Per Year	-19.5%	12.9%	69.8%	1.4%	1.4%	1.4%	1.4%	1.4%
<i>Avg. % Increase FY10-FY14</i>	<i>1.4%</i>							
Total Budget (Debt & Operating)	4,296,789	4,568,674	5,958,436	5,843,664	5,884,011	5,719,327	5,695,521	5,559,316
% of Debt Service to Total Operating Budget	46.1%	42.8%	25.6%	23.0%	22.4%	19.0%	17.5%	14.3%

Projected Debt Service Sewer Capital Budget Projects (FY17 - FY21)

		Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY221	Total
Gross Funding Recommendation		\$150,000	\$100,000	\$200,000	\$600,000	\$250,000	\$1,300,000
Less: Use of Retained Earnings		-\$150,000	-\$100,000	-\$200,000	-\$600,000	-\$250,000	-\$1,300,000
Less: Excess Bond Proceeds		\$0	\$0	\$0	\$0	\$0	\$0
Net Borrowing Recommendation		\$0	\$0	\$0	\$0	\$0	\$0
Ten (10) Year Borrowing	10	\$0	\$0	\$0	\$0	\$0	\$0
Interest	4.25%						
Twenty (20) Year Borrowing	20	\$0	\$0	\$0	\$0	\$0	\$0
Interest	5.00%						
Year 1 Debt Service	Principal		\$0	\$0	\$0	\$0	
	Interest		\$0	\$0	\$0	\$0	
	Total		\$0	\$0	\$0	\$0	
Year 2 Debt Service	Principal			\$0	\$0	\$0	
	Interest			\$0	\$0	\$0	
	Total			\$0	\$0	\$0	
Year 3 Debt Service	Principal				\$0	\$0	
	Interest				\$0	\$0	
	Total				\$0	\$0	
Year 4 Debt Service	Principal					\$0	
	Interest					\$0	
	Total					\$0	
Year 5 Debt Service	Principal						
	Interest						
	Total						
Total Ten (10) Year Debt Service			\$0	\$0	\$0	\$0	
Twenty (20) Year Debt Schedule							
Year 1 Debt Service	Principal		\$0	\$0	\$0	\$0	
	Interest		\$0	\$0	\$0	\$0	
	Total		\$0	\$0	\$0	\$0	
Year 2 Debt Service	Principal			\$0	\$0	\$0	
	Interest			\$0	\$0	\$0	
	Total			\$0	\$0	\$0	
Year 3 Debt Service	Principal				\$0	\$0	
	Interest				\$0	\$0	
	Total				\$0	\$0	
Year 4 Debt Service	Principal					\$0	
	Interest					\$0	
	Total					\$0	
Year 5 Debt Service	Principal						
	Interest						
	Total						
Total Twenty (20) Year Debt Service			\$0	\$0	\$0	\$0	
Total Non Excluded Debt Service			\$0	\$0	\$0	\$0	

Debt Service Sewer Enterprise Fund



SEWER ENTERPRISE FUND CAPITAL BUDGET CRITERIA POINT SCHEDULE

Total	Project	Department	FY 2017	EstTotalCost	Criteria						Score					
					A	B	C	D	E	F	A	B	C	D	E	F
55	Improvements to Various Sewer PS	Sewer	\$ 150,000.00	\$ 700,000.00	5	0	4	3	2	5	20	0	12	9	4	10
54	School St and Bunkerhill St Sewer Replacements	Sewer	\$ -	\$ 300,000.00	1	4	4	4	0	5	4	16	12	12	0	10
0	Osgood Street Sewer Preliminary Design	Sewer	\$ -	\$ 300,000.00	0	0	0	0	0	0	0	0	0	0	0	0
Total Sewer Capital Project			\$ 150,000.00	\$ 1,300,000.00												



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 1
Department: Sewer **Type:** Improvement
Project: Improvements to Various Sewer PS **Cost Basis:** Arct/Eng
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$150,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$250,000.00	\$700,000.00

Funding Source	Funding Amount	Submitted by:
Sewer Fund	\$600,000.00	Glen Alt
Other	\$100,000.00	Title: Superintendent
Total	\$700,000.00	Date: 10/26/2015

Description

Assessment of 22 sewer stations for physical and operational condition. Improvements to the equipment as needed at the stations.

Justification

The sewer stations ranged in years from 5 to over 25 years old. An assessment is needed evaluate the condition of the stations to plan for any future repairs and upgrades. As of now, the Butcher Boy generator needs replacing at a cost of \$25,000 to \$30,000. This station is next to Lake Cochichewick and therefore a threat to the water supply if the event of a power outage. There are other stations that will need necessary repairs in the near future.

Description of item to be replaced

See description above.

Schedule for completion of project

This project will be carried over multiple years and will dependent on the findings of the assessment.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

Via Electronic Mail

October 26, 2015



Mr. Glen Alt
Superintendent
Town of North Andover
Drinking Water Treatment Plant
420 Great Pond Road
North Andover, MA 01845

Re: Sewer Pump Stations

Dear Mr. Alt:

It is our understanding that the Town of North Andover anticipates having a detailed conditional assessment of all of the sewer pump stations performed in the near future. It is our opinion that until the conditional assessment is performed and specific needs are identified, the sewer pump stations will require \$50,000 of general upgrades in the 2017 fiscal year.

Please feel free to contact me with any questions or concerns by phone at 978-482-7896 or by email at nlittle@woodardcurran.com.

Sincerely,

WOODARD & CURRAN

Nathan Little, P.E.
Project Engineer

NL

cc: Jim Rivard, P.E., Woodard & Curran

COMMITMENT & INTEGRITY
DRIVE RESULTS

95 Cedar Street | Suite 100
Providence, Rhode Island 02903
www.woodardcurran.com

T 800.985.7897
T 401.273.1007
F 401.273.5087



October 23, 2015

Bruce D. Thibodeau, P.E.
Director of Public Works
384 Osgood St.
North Andover, MA 01845

Re: Pump Station Condition Assessment

Dear Mr. Thibodeau:

In accordance with your request we are pleased to provide you with a budget for a condition assessment for your wastewater pumping stations. Based on our understanding of your requirements, we recommend a budget of \$100,000 to assess the physical and operating condition of up to 22 pump stations and evaluate the elimination of one station on Route 114.

Should have any questions, please do not hesitate to contact me.

Sincerely,

WOODARD & CURRAN INC.

Kenneth W. Carlson, P.E.
Vice President



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 2
Department: Sewer **Type:** Improvement
Project: Sewer Collection System Improvements **Cost Basis:** Arct/Eng
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$100,000.00	\$200,000.00	\$0.00	\$300,000.00

Funding Source	Funding Amount	Submitted by:
Sewer Fund	\$100,000.00	Tim Willett
Other	\$200,000.00	Title: Operations Manager
Total	\$300,000.00	Date: 10/22/2015

Description

The funding allows for improvements and repairs to our sewer system to reduce infiltration and inflow (I/I). Infiltration and inflow occur when ground and/or surface waters enter the sewer system through defects or illicit connections. Future Regulations from DEP are likely, mandating Towns to reduce I/I so that treatment plants are not overburdened during heavy rain events. The funding will pay for engineering consultant fees and construction work. Funds are a combination of Sewer Enterprise Funds and Sewer Mitigation Fees collected from developers.

Justification

The Town must comply with DEP regulations or we may be punished by fines.

Description of item to be replaced

Sewer mains and services, sewer manholes, frames and covers are likely to be replaced under this program.

Schedule for completion of project

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 3
Department: Sewer **Type:** New
Project: Osgood Street Sewer Preliminary Design **Cost Basis:** Other
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$300,000.00	\$0.00	\$300,000.00

Funding Source	Funding Amount	Submitted by:
Sewer Fund	\$300,000.00	Bruce Thibodeau
Total	\$300,000.00	Title: DPW Director
		Date: 10/23/2015

Description

The work is to perform preliminary engineering design, including detailed survey, geotechnical report for the pumping station, and a construction cost estimates for approximately 10,500 linear feet of 10 and 8 inch diameter gravity sewers in Osgood St, Holt Rd., Clark St., Beechwood Dr., Orchard Hill Rd., and Sutton St., two sewer pumping stations, and 12,700 feet of 6 and 4 inch diameter force mains in Holt Rd., Osgood St., and Sutton St. See attached letter dated February 14, 2012 from Woodard & Curren.

Justification

Re-program of Waverly Rd. Relief sewer remaining funds. See attached memo

Description of item to be replaced

N/A new sewers

Schedule for completion of project

If successful the preliminary design will begin in July, 2012 for preparation of a grant application to be submitted in the fall of 2012.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

CURRENT DEBT SCHEDULE - SEWER

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
	MA WPA TR. SERIES 5 LOAN - 1999 - REFINANCED	2,908,650.00						
1-Aug	NO MAIN ST SWR (96-43)	325,266	18,072		148,223	17,842		130,381
1-Feb				813			292	
1-Aug	SWR GPR PHASE 3B (96-44)	1,172,226.00	60,334		541,948	64,529		477,419
1-Feb				2,996			1,111	
1-Aug	(99-28)	133,707.00	7,241		59,098	7,149		51,949
1-Feb				325			117	
1-Aug	(98-96)	182,521.00	11,190		85,144	11,052		74,092
1-Feb				488			175	
1-Aug	(98-79)	223,081.00	10,375		104,312	10,241		94,071
1-Feb				566			234	
1-Aug	(95-22)	871,849.00	46,585		400,171	45,990		354,181
1-Feb				2,191			819	
	SUBTOTAL	2,908,650	153,798	7,378	1,338,895	156,803	2,748	1,182,092
	MA WPA TR. SERIES 5 LOAN - 2000 - REFINANCED							
1-Feb	99-29 Series 6	2,100,160.00		7,964			4,402	
1-Aug			104,246		1,031,704	108,431		923,272
	SUBTOTAL	2,100,160	104,246	7,964	1,031,704	108,431	4,402	923,272
	G. O. Bond - 6/1/08	6,411,316						
15-Sep				1			0	
15-Mar	Sewer Watershed	200	20	1	20	20	0	-
15-Sep				29,732			25,612	
15-Mar	Waverly Road Relief Sewer Main	3,693,420	206,037	29,732	1,274,037	206,037	25,612	1,068,000
15-Sep								
15-Mar	Wastewater Management	231,670						
	SUBTOTAL	3,925,290	206,057	59,466.56	1,274,057	206,057	51,224.28	1,068,000
	G. O. Bond - 6/12/08							
	Refunding Bonds - 9/1/98							
15-Feb	Sewer - Inflow/Infiltration	102,878	10,000	381.25	20,000	10,000	193.75	10,000
15-Aug				562.50			381.25	
15-Feb	North Main Street - Sewer	102,878	10,000	381.25	20,000	10,000	193.75	10,000
15-Aug				562.50			381.25	
15-Feb	Sewer - Inflow/Infiltration	97,805	10,000	284.38	15,000	10,000	96.88	5,000
15-Aug				465.63			284.38	
15-Feb	Great Pond Rd. - Phase 3C Sewer	51,439	5,000	190.63	10,000	5,000	96.80	5,000
15-Aug				281.25			190.63	
	SUBTOTAL	355,000	35,000	3,109	65,000	35,000	1,819	30,000
	G. O. Bond - 6/15/09							
15-Jan	East Side Sewer	500,000	49,444	3,066	91,343	50,112	2,077	41,231
15-Jul				3,066			2,077	
	SUBTOTAL	906,439	49,444	6,133	91,343	50,112	4,155	41,231
	G. O. Bond - 12/15/09							
15-Jul	East Side Sewer			1,531.25			1,156.25	
15-Jan		250,000	25,000.00	1,531.25	75,000	25,000.00	1,156.25	50,000
	SUBTOTAL	250,000	25,000	3,063	75,000	25,000	2,313	50,000
	G. O. Bond - Refunding 4/01/02 - 12/15/09							
1-Oct	Sewer	43,481		327			285	
1-Apr			3,334	327	18,199	3,403	285	14,795
1-Oct	Sewer	161,850		1,216			1,061	
1-Apr			12,410	1,216	67,740	12,669	1,061	55,071
1-Oct	Sewer	243,663		1,831			1,597	
1-Apr			18,683	1,831	101,980	19,073	1,597	82,907
1-Oct	Sewer	858,301		6,499.26			5,626.61	
1-Apr			65,812.17	6,449.26	359,225	67,183.26	5,626.61	292,042
1-Oct	Sewer	1,060,905		7,971.60			6,954.75	
1-Apr			81,347.48	7,971.60	444,020	83,042.22	6,954.75	360,977
1-Oct	Sewer	57,496		432.01			376.90	
1-Apr			4,408.70	432.01	24,063	4,500.54	376.90	19,562
1-Oct	Sewer	228,603		1,717.67			1,498.56	
1-Apr			17,528.35	1,717.67	95,674	17,893.52	1,498.56	77,781
1-Oct	Sewer Engineering Services	475,702		3,574.47			3,118.52	
1-Apr		-	36,475.83	3,574.47	199,099	37,235.74	3,118.52	161,863
	SUBTOTAL	3,130,000	240,000	47,088	1,310,000	245,000	41,037	1,065,000
	G. O. Bond - 05/17/12							
12-Nov				468.00			390.00	
12-May	Sewer Utility Truck	78,000	7,800.00	468.00	39,000	7,800.00	390.00	31,200
	SUBTOTAL	78,000	7,800	936	39,000	7,800	780	31,200
	G. O. Bond - Refunding Series A Bonds 2003- 06/24/13							

CURRENT DEBT SCHEDULE - SEWER

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
1-Aug	East Side Interceptor							
1-Dec				3,070.14			1,535.07	
1-Jun		545,009	102,338	3,070.14	102,337.94	102,338	1,535.07	-
1-Aug	Sewer System Ext. in Watershed							
1-Dec				1,784.29			892.15	
1-Jun		316,746	59,476	1,784.29	59,476	59,476	892.15	(0)
1-Aug	Sewer Watershed							
1-Dec				1,595.57			797.78	
1-Jun		283,244	53,185.64	1,595.57	53,186	53,186	797.78	-
	SUBTOTAL	1,145,000	215,000	12,900	215,000	215,000	6,450	(0)
G. O. Bond - Refunding Series A Bonds 2008-06/15								
15-Sep				12,679			12,609	
15-Mar	Waverly Road Relief Sewer Main	1,001,474	4,681.57	12,679.37	982,748	4,682	12,609.14	978,066.05
	SUBTOTAL	-	4,682	25,359	982,748	4,682	25,218	978,066
GRAND TOTAL			1,041,027.01	173,395.29	6,422,746.20	1,053,885.23	140,146.29	5,368,860.97
Total Annual Princ & Interest			1,214,422			1,194,032		
MWPAT Principal / interest			258,044.44	15,342.00		265,234.66	7,150.22	
Water Principal / interest			782,982.57	158,053.29		788,650.57	132,996.07	
Total Principal / interest			1,041,027.01	173,395.29		1,053,885.23	140,146.29	

CURRENT DEBT SCHEDULE - SEWER

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
	MA WPA TR. SERIES 5 LOAN - 1999 - REFINANCED	2,908,650.00						
1-Aug	NO MAIN ST SWR (96-43)	325,266	17,508		112,873	17,237		95,636
1-Feb				-			-	
1-Aug	SWR GPR PHASE 3B (96-44)	1,172,226.00	68,306		409,113	67,278		341,835
1-Feb				-			-	
1-Aug	(99-28)	133,707.00	7,015		44,934	6,907		38,026
1-Feb				-			-	
1-Aug	(98-96)	182,521.00	10,852		63,240	10,689		52,551
1-Feb				-			-	
1-Aug	(98-79)	223,081.00	15,020		79,051	14,803		64,248
1-Feb				-			-	
1-Aug	(95-22)	871,849.00	50,100		304,081	49,343		254,738
1-Feb				-			-	
	SUBTOTAL	2,908,650	168,800	-	1,013,292	166,258	-	847,034
	MA WPA TR. SERIES 5 LOAN - 2000 - REFINANCED							
1-Feb	99-29 Series 6	2,100,160.00		1,769			-	
1-Aug			111,954		811,318	114,959		696,360
	SUBTOTAL	2,100,160	111,954	1,769	811,318	114,959	-	696,360
	G. O. Bond - 6/1/08	6,411,316						
15-Sep	Sewer Watershed	200						
15-Mar				21,491			17,199	
15-Sep	Waverly Road Relief Sewer Main	3,693,420	214,600	21,491	853,400	214,600	17,199	638,800
15-Mar								
15-Mar	Wastewater Management	231,670						
	SUBTOTAL	3,925,290	214,600	42,982.00	853,400	214,600	34,398.00	638,800
	G. O. Bond - 6/12/08							
	Refunding Bonds - 9/1/98							
15-Feb	Sewer - Inflow/Infiltration	102,878	10,000	-	-			
15-Aug				194				
15-Feb	North Main Street - Sewer	102,878	10,000	-	-			
15-Aug				194				
15-Feb	Sewer - Inflow/Infiltration	97,805	5,000	-	-			
15-Aug				97				
15-Feb	Great Pond Rd. - Phase 3C Sewer	51,439	5,000	-	(0)			
15-Aug				97				
	SUBTOTAL	355,000	30,000	581	(0)	-	-	-
	G. O. Bond - 6/15/09							
15-Jan	East Side Sewer	500,000	41,231	825	-			
15-Jul				825				
	SUBTOTAL	906,439	41,231	1,649	-	-	-	-
	G. O. Bond - 12/15/09							
15-Jul	East Side Sewer	250,000	25,000.00	781.25	25,000	25,000.00	375.00	-
15-Jan				781.25			375.00	
	SUBTOTAL	250,000	25,000	1,563	25,000	25,000	750	-
	G. O. Bond - Refunding 4/01/02 - 12/15/09							
1-Oct	Sewer	43,481		234			181	
1-Apr			3,542	234	11,253	3,612	181	7,641
1-Oct	Sewer	161,850		871			673	
1-Apr			13,186	871	41,886	13,444	673	28,441
1-Oct	Sewer	243,663		1,311			1,013	
1-Apr			19,851	1,311	63,056	20,240	1,013	42,816
1-Oct	Sewer	858,301		4,618.86			3,569.98	
1-Apr			69,925.43	4,618.86	222,117	71,296.52	3,569.98	150,820
1-Oct	Sewer	1,060,905		5,709.12			4,412.64	
1-Apr			86,431.70	5,709.12	274,546	88,126.43	4,412.64	186,419
1-Oct	Sewer	57,496		309.39			239.13	
1-Apr			4,684.24	309.39	14,878	4,776.09	239.13	10,102
1-Oct	Sewer	228,603		1,230.16			950.80	
1-Apr			18,623.87	1,230.16	59,157	18,989.04	950.80	40,168
1-Oct	Sewer Engineering Services	475,702		2,559.99			1,978.65	
1-Apr			38,755.57	2,559.99	123,108	39,515.48	1,978.65	83,592
	SUBTOTAL	3,130,000	255,000	33,688	810,000	260,000	26,037	550,000
	G. O. Bond - 05/17/12							
12-Nov	Sewer Utility Truck	78,000		312.00			234.00	
12-May			7,800.00	312.00	23,400	7,800.00	234.00	15,600
	SUBTOTAL	78,000	7,800	624	23,400	7,800	468	15,600
	G. O. Bond - Refunding Series A Bonds 2003- 06/24/13							

CURRENT DEBT SCHEDULE - SEWER

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
1-Aug 1-Dec 1-Jun	East Side Interceptor	545,009						
1-Aug 1-Dec 1-Jun	Sewer System Ext. in Watershed	316,746						
1-Aug 1-Dec 1-Jun	Sewer Watershed	283,244						
	SUBTOTAL	1,145,000						
G. O. Bond - Refunding Series A Bonds 2008- 06/15								
15-Sep 15-Mar	Waverly Road Relief Sewer Main	1,001,474	4,681.57	12,516	973,384	4,681.57	12,422	968,703
	SUBTOTAL	-	4,682	25,031	973,384	4,682	24,844	968,703
GRAND TOTAL			859,066.66	107,886.97	4,509,794.31	793,297.71	86,497.24	3,716,496.61
Total Annual Princ & Interest			966,954			879,795		
MWPAT Principal / interest			280,754.08	1,769.43		281,216.15	-	
Water Principal / interest			578,312.58	106,117.54		512,081.56	86,497.24	
Total Principal / interest			859,066.66	107,886.97		793,297.71	86,497.24	

CURRENT DEBT SCHEDULE - SEWER

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
	MA WPA TR. SERIES 5 LOAN - 1999 - REFINANCED	2,908,650.00			
1-Aug	NO MAIN ST SWR (96-43)	325,266			
1-Feb					
1-Aug	SWR GPR PHASE 3B (96-44)	1,172,226.00			
1-Feb					
1-Aug	(99-28)	133,707.00			
1-Feb					
1-Aug	(98-96)	182,521.00			
1-Feb					
1-Aug	(98-79)	223,081.00			
1-Feb					
1-Aug	(95-22)	871,849.00			
1-Feb					
	SUBTOTAL	2,908,650			-
	MA WPA TR. SERIES 5 LOAN - 2000 - REFINANCED				
1-Feb	99-29 Series 6	2,100,160.00			
1-Aug			113,116		583,244
	SUBTOTAL	2,100,160	113,116	-	583,244
	G. O. Bond - 6/1/08	6,411,316			
15-Sep					
15-Mar	Sewer Watershed	200			
15-Sep				12,907	
15-Mar	Waverly Road Relief Sewer Main	3,693,420	214,600	12,907	424,200
15-Sep					
15-Mar	Wastewater Management	231,670			
	SUBTOTAL	3,925,290	214,600	25,814.00	424,200
	G. O. Bond - 6/12/08				
	Refunding Bonds - 9/1/98				
15-Feb	Sewer - Inflow/Infiltration	102,878			
15-Aug					
15-Feb	North Main Street - Sewer	102,878			
15-Aug					
15-Feb	Sewer - Inflow/Infiltration	97,805			
15-Aug					
15-Feb	Great Pond Rd. - Phase 3C Sewer	51,439			
15-Aug					
	SUBTOTAL	355,000	-	-	-
	G. O. Bond - 6/15/09				
15-Jan	East Side Sewer	500,000			
15-Jul					
	SUBTOTAL	906,439	-	-	-
	G. O. Bond - 12/15/09				
15-Jul	East Side Sewer	250,000			
15-Jan					
	SUBTOTAL	250,000	-	-	-
	G. O. Bond - Refunding 4/01/02 - 12/15/09				
1-Oct	Sewer	43,481		127	
1-Apr			3,751	127	3,890
1-Oct	Sewer	161,850		472	
1-Apr			13,962	472	14,479
1-Oct	Sewer	243,663		710	
1-Apr			21,019	710	21,797
1-Oct	Sewer	858,301		2,500.53	
1-Apr			74,039.02	2,500.53	76,781
1-Oct	Sewer	1,060,905		3,090.75	
1-Apr			91,514.93	3,090.75	94,904
1-Oct	Sewer	57,496		167.49	
1-Apr			4,959.21	167.49	5,143
1-Oct	Sewer	228,603		665.97	
1-Apr			19,718.79	665.97	20,449
1-Oct	Sewer Engineering Services	475,702		1,385.92	
1-Apr			41,036.23	1,385.92	42,556
	SUBTOTAL	3,130,000	270,000	18,238	280,000
	G. O. Bond - 05/17/12				
12-Nov				156.00	
12-May	Sewer Utility Truck	78,000	7,800.00	156.00	7,800
	SUBTOTAL	78,000	7,800	312	7,800
	G. O. Bond - Refunding Series A Bonds 2003- 06/24/13				

CURRENT DEBT SCHEDULE - SEWER

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
1-Aug	East Side Interceptor				
1-Dec					
1-Jun		545,009			
1-Aug	Sewer System Ext. in Watershed				
1-Dec					
1-Jun		316,746			
1-Aug	Sewer Watershed				
1-Dec					
1-Jun		283,244			
	SUBTOTAL	1,145,000			
G. O. Bond - Refunding Series A Bonds 2008- 06/15					
15-Sep				12,352	
15-Mar	Waverly Road Relief Sewer Main	1,001,474	4,681.57	12,351.66	964,021
	SUBTOTAL	-	4,682	24,703	964,021
GRAND TOTAL			610,197.57	69,066.84	2,259,265.05
Total Annual Princ & Interest			679,264		
MWPAT Principal / interest			113,116.00	-	
Water Principal / interest			497,081.57	69,066.84	
Total Principal / interest			610,197.57	69,066.84	

WATER ENTERPRISE FUND

Recommended Water Capital Budget Projects by Criteria Points and Year Funded (FY17-FY21)

Project Name	Division	Criteria Points	Borrowing Period or Retained Earnings	Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY21	Total
Ozone System	Water			200,000	2,200,000				\$2,400,000
Chemical Storage Tanks & Feed System	Water			175,000	225,000	370,000	420,000		\$1,190,000
Valve & Hydrant Replacement	Water			100,000		100,000			\$200,000
Water Main Replacement	Water					500,000			\$500,000
Interconnections	Water						100,000	100,000	\$200,000
Water Distribution Truck	Water					80,000			\$80,000
Bradford Standpipe Mixer	Water						150,000		\$150,000
WTP Backwash Tank Extension	Water						325,000	1,400,000	\$1,725,000
Sedimentation Basin Improvements	Water							300,000	\$300,000
WTP Lab Renovations	Water							50,000	\$50,000
WTP New Sludge Collections System	Water							180,000	\$180,000
TOTAL				\$475,000	\$2,425,000	\$1,050,000	\$995,000	\$2,030,000	\$6,975,000
Use of Retained Earnings				(\$475,000)	(\$800,000)	\$0	\$0	\$0	(\$1,275,000)
Net Borrowing				\$0	\$1,625,000	\$1,050,000	\$995,000	\$2,030,000	\$5,700,000

Requested Water Capital Budget Projects (FY17 - FY21)

Project Name	Division	Div. Priority	Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY21	Total	Comments
Ozone System	Water	1	200,000	2,200,000				2,400,000	
Chemical Storage Tanks & Feed System	Water	2	175,000	225,000	370,000	420,000		1,190,000	
Valve & Hydrant Replacement	Water	3	100,000		100,000			200,000	
Water Main Replacement	Water	4			500,000			500,000	
Interconnections	Water	5				100,000	100,000	200,000	
Water Distribution Truck	Water	6			80,000			80,000	
Bradford Standpipe Mixer	Water	7				150,000		150,000	
WTP Backwash Tank Extension	Water	8				325,000	1,400,000	1,725,000	
Sedimentation Basin Improvements	Water	9					300,000	300,000	
WTP Lab Renovations	Water	10					50,000	50,000	
WTP New Sludge Collections System	Water	11					180,000	180,000	
TOTAL (Non Debt Excluded)			475,000	2,425,000	1,050,000	995,000	2,030,000	6,975,000	

% of Debt Service to Operating Budget Summary Water Capital Budget, (FY17- FY21)

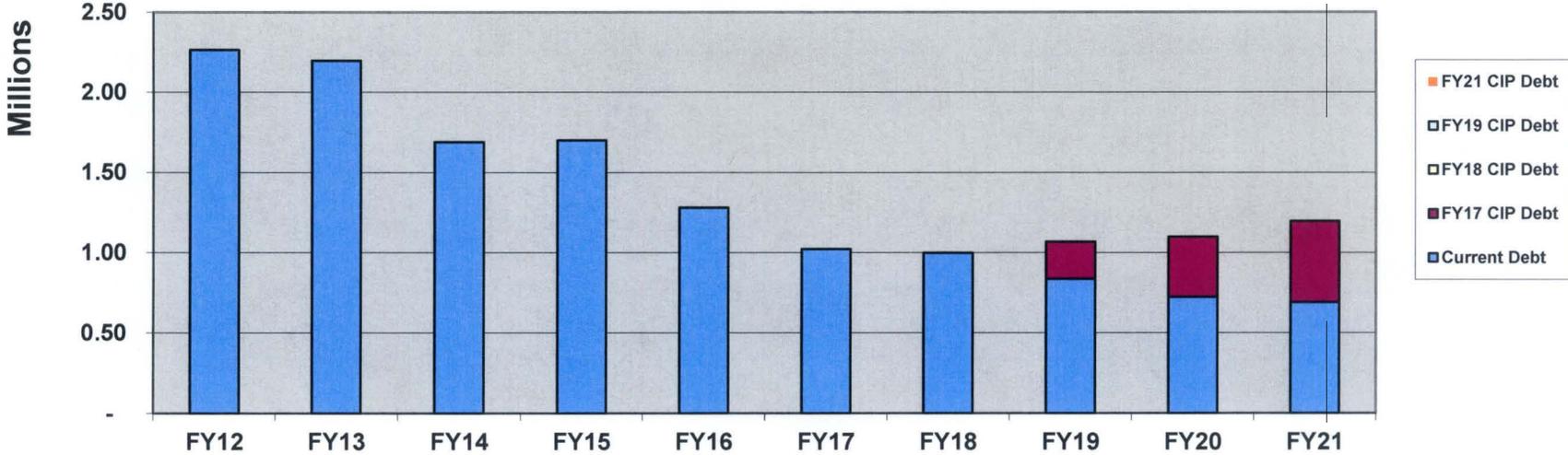
Water Enterprise Fund

	Actual FY 2013	Actual FY 2014	Actual FY 2015	Budget FY 2016	Projected FY 2017	Projected FY 2018	Projected FY 2019	Projected FY 2020	Projected FY 2021
Water Current Debt	2,197,185	1,690,478	1,700,551	1,282,276	1,022,670	999,561	836,933	725,366	692,006
P/Y Authorized but not Funded	-	-	-	-	-	-	-	-	-
Subtotal	2,197,185	1,690,478	1,700,551	1,282,276	1,022,670	999,561	836,933	725,366	692,006
New CIP Water Debt	-	-	-	-	-	-	231,563	374,281	504,700
Total Debt Service	2,197,185	1,690,478	1,700,551	1,282,276	1,022,670	999,561	1,068,496	1,099,647	1,196,706
Operating Budget	2,486,314	2,910,609	3,088,335	3,178,537	3,271,375	3,366,924	3,465,263	3,566,475	3,670,643
% Budget Increase Per Year	1.34%	17.07%	6.11%	2.92%	2.92%	2.92%	2.92%	2.92%	2.92%
<i>Avg Budget Increase FY10-14</i>		<i>2.92%</i>							
Total Operating Budget (Debt & Operating)	4,683,498	4,601,086	4,788,886	4,460,814	4,294,045	4,366,485	4,533,759	4,666,122	4,867,349
% of Debt Service to Total Budget	46.9%	36.7%	35.5%	28.7%	23.8%	22.9%	23.6%	23.6%	24.6%

Projected Debt Service for New Recommended Water.Capital Projects, (FY17- FY21)

		Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY21	Total
Gross Funding Recommendation		\$475,000	\$2,425,000	\$1,050,000	\$995,000	\$2,030,000	\$6,975,000
Less: Use of Retained Earnings: Cash		-\$475,000	-\$800,000	\$0	\$0	\$0	-\$1,275,000
Less: Excess Bond Proceeds		\$0	\$0	\$0	\$0	\$0	\$0
Net Borrowing Recommendation		\$0	\$1,625,000	\$1,050,000	\$995,000	\$2,030,000	\$5,700,000
Ten (10) Year Borrowing Interest	10 4.25%	\$0	\$1,625,000	\$1,050,000	\$995,000	\$2,030,000	\$5,700,000
Twenty (20) Year Borrowing Interest	20 5.00%	\$0	\$0	\$0	\$0	\$0	\$0
Year 1 Debt Service	Principal		\$0	\$0	\$0	\$0	
	Interest		\$0	\$0	\$0	\$0	
	Total		\$0	\$0	\$0	\$0	
Year 2 Debt Service	Principal			\$162,500	\$162,500	\$162,500	
	Interest			\$69,063	\$62,156	\$55,250	
	Total			\$231,563	\$224,656	\$217,750	
Year 3 Debt Service	Principal				\$105,000	\$105,000	
	Interest				\$44,625	\$40,163	
	Total				\$149,625	\$145,163	
Year 4 Debt Service	Principal					\$99,500	
	Interest					\$42,288	
	Total					\$141,788	
Year 5 Debt Service	Principal						
	Interest						
	Total						
Total Ten (10) Year Debt Service			\$0	\$231,563	\$374,281	\$504,700	
Twenty (20) Year Debt Schedule							
Year 1 Debt Service	Principal		\$0	\$0	\$0	\$0	
	Interest		\$0	\$0	\$0	\$0	
	Total		\$0	\$0	\$0	\$0	
Year 2 Debt Service	Principal			\$0	\$0	\$0	
	Interest			\$0	\$0	\$0	
	Total			\$0	\$0	\$0	
Year 3 Debt Service	Principal				\$0	\$0	
	Interest				\$0	\$0	
	Total				\$0	\$0	
Year 4 Debt Service	Principal					\$0	
	Interest					\$0	
	Total					\$0	
Year 5 Debt Service	Principal						
	Interest						
	Total						
Total Twenty (20) Year Debt Service			\$0	\$0	\$0	\$0	
Total Non Excluded Debt Service			\$0	\$231,563	\$374,281	\$504,700	

Debt Service Water Enterprise Fund



WATER ENTERPRISE FUND CAPITAL BUDGET CRITERIA POINT SCHEDULE

Total	Project	Department	FY 2017	EstTotalCost	Criteria						Score					
					A	B	C	D	E	F	A	B	C	D	E	F
55	Ozone System	Water	\$ 200,000.00	\$ 2,400,000.00	5	0	4	3	2	5	20	0	12	9	4	10
47	Chemical Storage Tanks & Feed System Improvements-Update	Water	\$ 175,000.00	\$ 1,190,000.00	5	0	2	3	2	4	20	0	6	9	4	8
47	Valve & Hydrant Replacements	Water	\$ 100,000.00	\$ 200,000.00	5	0	4	3	0	3	20	0	12	9	0	6
0	Water Main Replacement	Water	\$ -	\$ 500,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	WTP - Backwash Tank Extension	Water	\$ -	\$ 1,725,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	WTP - New Sludge Collection System	Water	\$ -	\$ 180,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	Bradford Standpipe Mixer	Water	\$ -	\$ 150,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	Sedimentation Basin Improvements	Water	\$ -	\$ 300,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	WTP - Lab Renovations	Water	\$ -	\$ 50,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	Interconnections	Water	\$ -	\$ 200,000.00	0	0	0	0	0	0	0	0	0	0	0	0
0	Water Distribution Truck	Water	\$ -	\$ 80,000.00	0	0	0	0	0	0	0	0	0	0	0	0
Total Water Capital Project			\$ 475,000.00	\$ 6,975,000.00												



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 1
Department: Water **Type:** Improvement
Project: Ozone System **Cost Basis:** Arct/Eng
Project Category: Building **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$200,000.00	\$2,200,000.00	\$0.00	\$0.00	\$0.00	\$2,400,000.00

Funding Source	Funding Amount	Submitted by: Glen Alt
Water Fund	\$2,400,000.00	Title: Superintendent
Total	\$2,400,000.00	Date: 10/22/2015

Description

The ozone system will be totally upgraded to the latest technology. These improvements will increase our ability to guarantee a safe drinking water from microbial organisms.

Justification

Upgrading the ozone system would mean a more "greener" system which will decrease the plant's use of electricity. It will also help us to provide safe, clean drinking water at lower operational and maintenance costs. Maintenance costs have risen in the past few years because of the age of the ozone equipment. Breakdowns are occurring more frequently. Some parts are either not available or extremely difficult to find.

Description of item to be replaced

Older technology ozone system from the 1990's.

Schedule for completion of project

We are expecting the completion of this project by the end of FY 18.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$10,000.00

Explanation

Decrease in energy costs.

North Andover, Massachusetts

October 20, 2015

Mr. Glen Alt
WTP Superintendent
420 Great Pond Road
North Andover, MA 01845

Re: CIP Cost Estimate – Ozone System Upgrades

Dear Mr. Alt:

As requested, we are providing an estimate of costs for completing the Water Treatment Plant Ozone System Upgrades Project. The estimate is broken down into three segments; Engineering, Construction and Construction Contingency. The cost associated with Engineering includes design, bidding and construction engineering office and field inspection services. Please note that the \$70,000 previously appropriated in Fiscal Year (FY) '16 has been deducted from the Engineering cost noted below. In discussions with the previous WTP Superintendent, the original intent was to start construction on the ozone upgrades in 2020 which allowed for phasing of the appropriations across five years. However, based on recent discussions with you, it would be beneficial to consolidate the appropriations and have funds available for construction starting in FY'17. As such, our recommendation would be to appropriate \$2,617,000 in FY'17 or FY'18 at the latest.

Water Treatment Plant Ozone System Upgrades

Engineering	\$197,000
Construction	\$2,113,000
Contingency	\$300,000
Total	\$2,610,000

Should you have any questions or concerns, please feel to contact me or Tara McManus at 978-532-1900.

Regards,

WESTON & SAMPSON ENGINEERS, INC.



Barbara K. Cook, P.E.
Vice President

cc: Tara E. McManus, PE – Weston & Sampson

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CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 2
Department: Water **Type:** Replacement
Project: Chemical Storage Tanks & Feed System Improvements-Update **Cost Basis:** Arct/Eng
Project Category: Equip (non-Rolling) **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$175,000.00	\$225,000.00	\$370,000.00	\$420,000.00	\$0.00	\$1,190,000.00

Funding Source	Funding Amount	Submitted by: Glen Alt
Water Fund	\$1,190,000.00	Title: Superintendent
Total	\$1,190,000.00	Date: 10/23/2015

Description

Replacement of chemical tanks and associated chemical feed systems (pumps, piping and alarms). The chemical storage tanks include fluoride, zinc orthophosphate, ptyaluminum chloride, and sodium hydroxide. In FY 2017 we are proposing replacing the fluoride tank and in FY 2018 the chemical feed system associated with the fluoride storage tank. The other storage tanks are planned for future year requests.

Justification

Most of the chemical feed systems and storage tanks are over 25 years old and reaching the end of their useful life span thus need to be upgraded or replaced over the next several years. This would include seven (7) bulk storage tanks and several day tanks , 2 – 4 chemical feed pumps for each chemical along with all associated plumbing and alarms.

Description of item to be replaced

Storage tanks ranging in size from 100 gal day tanks to 3300 gal storage tanks along with the chemical metering pumps and controls.

Schedule for completion of project

This project is expected to span a few years until the project is completed.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

Via Electronic Mail

October 22, 2015



Mr. Glen Alt
Superintendent
Town of North Andover
Drinking Water Treatment Plant
420 Great Pond Road
North Andover, MA 01845

Re: Chemical System Upgrades

Dear Mr. Alt:

Woodard & Curran performed an evaluation of the chemical feed systems at the water treatment plant and submitted the Evaluation of Chemical Storage and Feed Systems Report to the Town of North Andover on January 10, 2014.

The report concluded that most of the chemical feed and storage equipment at the plant are original to the construction of the plant in the late 1980s and are now over 25 years old and beyond their useful life. The report concluded that most of the systems needed to be upgraded or replaced to improve safety, reliability, and operability at the plant.

Some of the recommended improvements have been made since the report was issued, including relining the Sodium Hydroxide tanks and replacing the Sodium Hypochlorite tanks. The remaining chemical systems that need upgrades or replacement, in order of priority, are Fluoride, Zinc Orthophosphate, Polyaluminum Chloride, and Sodium Hydroxide. Cost estimates for replacing these systems were included in the evaluation report and summarized below.

Table 1 – Cost Estimates for Chemical System Upgrades

Chemical	Cost Estimate
Fluoride	\$400,000
Zinc Orthophosphate	\$370,000
Poyaluminum Chloride (PCH-180)	\$420,000
Sodium Hydroxide	\$350,000

The costs in Table 1 are for complete replacement of the chemical feed systems and include;

- Demolition of existing tanks, concrete pads, and associated piping, fittings, and valves.
- Demolition of existing chemical feed systems including pumps and associated piping, fittings, and valves.
- Installation of new bulk and day tanks, stands, transfer pumps, and associated piping, fittings, and valves.
- Installation of new chemical feed systems including pumps and associated piping, fittings, and valves.
- Associated electrical work and instrumentation and controls required for the new bulk, day tanks, transfer pumps, as well as the new chemical feed systems. This includes new level sensors in



the tanks and spill detection alarms within the containment areas, audio and visual overfill alarms at the bulk fill station, and new control panels for the chemical feed pumps.

- Installation of a new chemical coating system for the containment areas.
- Allowance for construction contingencies and engineering services.
- Please note that the costs shown are in 2013 dollars. They do not account for increases in future costs due to inflation, etc.

Please feel free to contact me with any questions or concerns by phone at 978-482-7896 or by email at nlittle@woodardcurran.com.

Sincerely,

WOODARD & CURRAN

A handwritten signature in blue ink, appearing to read "Nathan Little".

Nathan Little, P.E.
Project Engineer

NL

cc: Jim Rivard, P.E., Woodard & Curran



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 3
Department: Water **Type:** Replacement
Project: Valve & Hydrant Replacements **Cost Basis:** Arct/Eng
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$100,000.00	\$0.00	\$100,000.00	\$0.00	\$0.00	\$200,000.00

Funding Source	Funding Amount	Submitted by: Tim Willett
Water Fund	\$200,000.00	Title: Operations Manager
Total	\$200,000.00	Date: 10/20/2015

Description

The funding allows for old hydrants and valves to be replaced. During our annual flushing program, we discover several hydrants that need to be replaced, mostly due to age. Similarly, during water operations we discover gate valves that can no longer shut completely and need replacement.

Justification

Hydrants and valves are critical components to a water system and must be in excellent working condition. We must be able to shut water off to repair a water main break. Hydrants are needed to flush the system to remove sediments, and fight fires.

Description of item to be replaced

Old hydrants and gate valves in various locations around town.

Schedule for completion of project

Purchase valves and hydrants: October 30, 2016
 Install hydrants by November 30, 2017.
 Install new valves by June 30, 2018.

Estimated value of replaced item: \$100.00

NET Estimated Annual Impact: \$10,000.00

Explanation

Extra labor and materials could be result in an emergency situation such as a water main break if we are not proactive with valve and hydrant replacement.



45 Little River Rd.
Kingston, NH 03848

ESTIMATE DATE: October 22, 2015

SUBMITTED TO: North Andover DPW
Attn: Tim Willett
Email: twillett@townofnorthandover.com

PROJECT: Supply labor and machinery to install hydrants and valves at various locations throughout North Andover.

BUDGET PRICE FOR LABOR AND EQUIPMENT: \$70,000.00

NOTE: Town of North Andover to provide all materials and police details.

BUDGET PRICE FOR MATERIALS AND POLICE DETAILS: \$30,000.00

SUBMITTED BY:
William (Tom) Sawyer
Arco Excavators, Inc.



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 4
Department: Water **Type:** Improvement
Project: Water Main Replacement **Cost Basis:** Arct/Eng
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$500,000.00	\$0.00	\$0.00	\$500,000.00

Funding Source	Funding Amount	Submitted by:
Water Fund	\$500,000.00	Tim Willett
Total	\$500,000.00	Title: Operations Manager
		Date: 10/22/2015

Description

Replace cast iron water mains in town streets that have experienced several water main breaks over the years. The new water mains will be ductile iron pipe, which is very resistant to breakage.

Justification

Cast iron pipe is susceptible to water main breaks, as well as small leaks that do not reach the surface. Water mains breaks cause a loss in water service to residences, decrease fire fighting capabilities, and can be detrimental to water quality.

Description of item to be replaced

Several hundred feet of cast iron pipe, numerous hydrants, and main line valves.

Schedule for completion of project

Estimated value of replaced item: \$50.00

NET Estimated Annual Impact: \$15,000.00

Explanation

The estimated cost to repair 2 water main breaks.



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 5
Department: Water **Type:** Improvement
Project: Interconnections **Cost Basis:** Arct/Eng
Project Category: Infrastructure **Asset Class:** Class 1
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$100,000.00	\$100,000.00	\$200,000.00

Funding Source	Funding Amount	Submitted by: Tim Willett
Water Fund	\$200,000.00	Title: Operations Manager
Total	\$200,000.00	Date: 10/22/2015

Description

For the upgrade/improvements of the Town's two interconnections with the Town of Andover and the City of Haverhill for emergency purposes such as severe loss of water or due to contamination of our own supply.

Justification

A new connection with Haverhill's water system will be designed.
 Analyze and design two connections with Andover, one on Peters St and one through Merrimack College property.
 Eliminate the Peters Street Booster Station.

Description of item to be replaced

Peters Street Emergency Pump Station will be eliminated; it is no longer needed.

Schedule for completion of project

Estimated value of replaced item: \$1.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 6
Department: Water **Type:** Replacement
Project: Water Distribution Truck **Cost Basis:** Previous Purchase
Project Category: Equip (Rolling) **Asset Class:** Select One
Project Type: Vehicle/Equipment (including "General IT")

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$80,000.00	\$0.00	\$0.00	\$80,000.00

Funding Source	Funding Amount	Submitted by:
Water Fund	\$80,000.00	Tim Willett
Total	\$80,000.00	Title: Operations Manager
		Date: 10/22/2015

Description **Justification**
 A new utility truck for the Water Distribution Crew. To maintain a high level of top quality vehicles.

Description of item to be replaced **Schedule for completion of project**
 Truck #43, a 2009 Chevy 3500 with 80,000 miles.

Estimated value of replaced item: \$500.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 7
Department: Water **Type:** Replacement
Project: Bradford Standpipe Mixer **Cost Basis:** Arct/Eng
Project Category: Equip (non-Rolling) **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$150,000.00	\$0.00	\$150,000.00

Funding Source	Funding Amount	Submitted by:
Water Fund	\$150,000.00	Glen Alt
Total	\$150,000.00	Title: Superintendent
		Date: 10/26/2015

Description

Replacement of old mixing system in the Bradford Tank with new technology.

Justification

The Bradford tank is a standpipe tank that is approximately 80 feet tall. Due to the size and height of the tank there is concern with water age and ice buildup in the tank. The present mixing system only extends 13 feet into the tank and relies on water movement as the tank fills to mix the tank. This method does not mix the upper portion of the tank which causes questions as to the quality of water in that portion of the standpipe. Last year, ice damage repairs had to be made to the hatch, fill pipe and the support structure. A more modern mixing system would help eliminate these issues.

Description of item to be replaced

Older inefficient mixing tank system.

Schedule for completion of project

Project expected to be completed by the end of FY20.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 8
Department: Water **Type:** Improvement
Project: WTP - Backwash Tank Extension **Cost Basis:** Arct/Eng
Project Category: Infrastructure **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$325,000.00	\$1,400,000.00	\$1,725,000.00

Funding Source	Funding Amount	Submitted by:
Water Fund	\$1,725,000.00	Glen Alt
Total	\$1,725,000.00	Title: Superintendent Date: 10/23/2015

Description

Adding a tank to the backwash dewatering system.

Justification

By having an extra tank the operators can routinely enter the tanks for cleaning and maintenance without shutting the process down. This will also increase the settling time thus reducing the volume of sludge being sent to the GLSD.

Description of item to be replaced

None

Schedule for completion of project

Once approved we will go out to bid for design, specifications and installation. This project might take several years due to working around our process and due to the expense.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$5,000.00

Explanation

The decrease in the cost of sending less water/materials to the GLSD.



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 9
Department: Water **Type:** Replacement
Project: Sedimentation Basin Improvements **Cost Basis:** Arct/Eng
Project Category: Equip (non-Rolling) **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00	\$300,000.00

Funding Source **Submitted by:** Glen Alt
 Water Fund **Title:** Superintendent
Date: 10/26/2015
Funding Amount
 \$300,000.00
Total \$300,000.00

Description

Replace/upgrade the equipment in the Sedimentation Basins

Justification

The equipment located in the Sedimentation Basins are over 25 years old and in need of replacement. The settling tubes are beyond their useful life and need to be replaced. These tubes help with the settling of the impurities from the raw water before reaching the carbon filters. The replacement includes all of the tube settlers in the 4 basins for a total 3,445 square feet of 24 inch high tube settlers. Also the gear boxes, valves and actuators are in need of an update.

Description of item to be replaced

Replacement of settling tubes, valves, actuators, and gear boxes that are all over 25 years old.

Schedule for completion of project

This project should be completed by the end of FY22

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 10
Department: Water **Type:** Replacement
Project: WTP - Lab Renovations **Cost Basis:** Vendor Quote
Project Category: Building **Asset Class:** Select One
Project Type: Vehicle/Equipment (including "General IT")

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00

Funding Source	Funding Amount	Submitted by: Glen Alt
Water Fund	\$50,000.00	Title: Superintendent
Total	\$50,000.00	Date: 10/22/2015

Description

Due to the age of the WTP the lab is showing signs of wear due to the constant exposure to chemicals. The lab cabinets are corroded and the lab countertops are stained. The major equipment is the original and needs to be replaced per DEP laboratory audit.

Justification

Age of equipment and DEP audit.

Description of item to be replaced

All metal cabinets, all countertops, autoclave, incubator, refrigerator, water purification system, etc.

Schedule for completion of project

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Public Works **Priority:** 11
Department: Water **Type:** Improvement
Project: WTP - New Sludge Collection System **Cost Basis:** Arct/Eng
Project Category: Building **Asset Class:** Select One
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$0.00	\$0.00	\$0.00	\$0.00	\$180,000.00	\$180,000.00

Funding Source	Funding Amount	Submitted by:
Water Fund	\$180,000.00	Glen Alt
Total	\$180,000.00	Title: Superintendent Date: 10/22/2015

Description

Design of a new dewatering system and sludge collection system by connecting drains to the backwash tank.

Justification

We would be able to take the sludge from our flocculation basins, sedimentation tanks and ozone tanks (all outside tanks) and dewater it in the backwash tank which cannot presently be done. This would enable us to settle and recycle the sludge in larger quantities and further decrease the amount of gallons of wastewater from our process that is sent to the GLSD.

Description of item to be replaced

Schedule for completion of project

Once approved we will go out to bid for design, specifications and installation. This project might take several years due to working around our process and due to the expense.

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$5,000.00

Explanation

The decrease in the cost of sending less water/materials to the GLSD.

CURRENT DEBT SCHEDULE - WATER

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
	G. O. Bond - 6/17/08	6,411,316						
15-Sep				2,600.00			1,300.00	
15-Mar	Water Mains	650,000	65,000.00	2,600.00	65,000.00	65,000.00	1,300.00	-
15-Sep				1,400.00			700.00	
15-Mar	Water Meter Replacments	350,000	35,000.00	1,400.00	35,000.00	35,000.00	700.00	-
	SUBTOTAL	1,000,000	100,000.00	8,000.00	100,000.00	100,000.00	4,000.00	-
	MA. W.P.A.Tr. - Pool 13 - 2007	5,532,288						
15-Jul	Water Storage Tanks DW-06-01	5,532,288	267,058.00	35,858.78	3,318,820.00	272,453.00	33,188.20	3,046,367.00
15-Jan				33,188.20			30,463.67	
	SUBTOTAL	5,532,288	267,058.00	69,046.98	3,318,820.00	272,453.00	63,651.87	3,046,367.00
	G. O. Bond - 6/12/08	24,548,000						
	Refunding Bonds - 1/15/98							
O 15-Aug	Water Main Rehab.	412,308	40,000.00	1,475.00	40,000.00	40,000.00	750.00	0.00
15-Feb				750.00				
O 15-Aug	Water Treatment Facility	1,344,967						
15-Feb	<i>Original Issue - \$4,760,000</i>							
O 15-Aug	Water Mains	130,833						
15-Feb	<i>Original Issue - \$439,000</i>							
	SUBTOTAL	1,888,108	40,000.00	2,225.00	40,000.00	40,000.00	750.00	0.00
	G. O. Bond - 6/15/09							
O 15-Jan	Water Main Rehab	300,000	30,000.00	1,950.00	60,000.00	30,000.00	1,350.00	30,000.00
15-Jul				1,950.00			1,350.00	
O 15-Jan	Foxwood Booster	150,000	15,000.00	975.00	30,000.00	15,000.00	675.00	15,000.00
15-Jul				975.00			675.00	
	SUBTOTAL	450,000	45,000.00	5,850.00	90,000.00	45,000.00	4,050.00	45,000.00
	G. O. Bond - 12/15/09							
O 15-Jul	Water Main Rehab			1,531.25			1,156.25	
15-Jan		250,000	25,000.00	1,531.25	75,000.00	25,000.00	1,156.25	50,000.00
O 15-Jul	Foxwood Booster			843.75			543.75	
15-Jan		175,000	20,000.00	843.75	35,000.00	20,000.00	543.75	15,000.00
O 15-Jul	Bear Hill Booster Pump			17,096.25			16,121.25	
15-Jan		1,250,000	65,000.00	17,096.25	880,000.00	65,000.00	16,121.25	815,000.00
O 15-Jul	Rosemont Booster Pump			1,687.50			1,087.50	
15-Jan		350,000	40,000.00	1,687.50	70,000.00	40,000.00	1,087.50	30,000.00
	SUBTOTAL	2,025,000	150,000.00	42,317.50	1,060,000.00	150,000.00	37,817.50	910,000.00
	G. O. Bond - 02/17/11							
15-Aug	Water Meters	225,000	22,500.00	1,996.88	90,000.00	22,500.00	1,659.38	67,500.00
15-Feb				1,659.38			1,237.50	
	SUBTOTAL	225,000	22,500	3,656	90,000	22,500	2,897	67,500
	G. O. Bond - 05/17/2012							
O 12-Nov				1,350.00			1,125.00	
12-May	Water Meters	225,000	22,500.00	1,350.00	112,500.00	22,500.00	1,125.00	90,000.00
O 12-Nov				4,140.00			3,450.00	
12-May	Heating, Ventilating and Air Conditioning	690,000	69,000.00	4,140.00	345,000.00	69,000.00	3,450.00	276,000.00
O 12-Nov				1,560.00			1,300.00	
12-May	Valve & Hydrant Replcement and Installatic	260,000	26,000.00	1,560.00	130,000.00	26,000.00	1,300.00	104,000.00
	SUBTOTAL	1,175,000	117,500.00	14,100.00	587,500.00	117,500.00	11,750.00	470,000.00
	G. O. Bond - 06/24/13							
O 1-Dec				4,461.87			3,533.76	
1-Jun	Water Mains	573,000	61,874.00	4,461.87	324,939.00	56,874.00	3,533.76	268,065.00
O 1-Dec				466.66			366.66	
1-Jun	Water Meters	60,000	6,667.00	466.66	33,332.00	6,667.00	366.66	26,665.00
O 1-Dec				505.54			397.21	
1-Jun	Flocculation & Sedimentation Building	65,000	7,222.00	505.54	36,110.00	7,222.00	397.21	28,888.00
O 1-Dec				754.44			592.77	
1-Jun	Concrete Repairs and Coating	97,000	10,778.00	754.44	53,888.00	10,778.00	592.77	43,110.00
	SUBTOTAL	795,000	86,541.00	12,377.02	448,269.00	81,541.00	9,780.80	366,728.00
	G. O. Bond - Refunding Series B Bonds 2005- 06/24/13							

CURRENT DEBT SCHEDULE - WATER

Pmt. Date	Purpose	Amount Issued	FY 17			FY 18		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
O 15-Aug	Water Main Rehabilitation	58,361			-			-
	15-Feb							
O 15-Aug	Sutton Hill High Service Area	58,361			-			-
	15-Feb							
O 15-Aug	Water Main Rehabilitation	2,334			-			-
	15-Feb							
	SUBTOTAL	119,056			-			-
	G. O. Bond - 06/17/14							
O 1-Dec				330.33	-		235.95	
1-Jun	Replacement of Carbon Filter Actuator	47,191	9,438.00	330.33	18,876.00	9,438.00	235.95	9,438.00
O 1-Dec				2,200.00	-		1,980.00	
1-Jun	Emergency Power upgrade WTP	220,000	22,000.00	2,200.00	154,000.00	22,000.00	1,980.00	132,000.00
	SUBTOTAL	267,191	31,438.00	5,060.66	172,876.00	31,438.00	4,431.90	141,438.00
	GRAND TOTAL		860,037.00	162,633.42	5,907,465.00	860,432.00	139,128.95	5,047,033.00
	Total Annual Princ & Interest			1,022,670.42			999,560.95	
	Princ & Int		592,979.00	93,586.44		587,979.00	75,477.08	
	MWPAT Prin & Int		267,058.00	69,046.98		272,453.00	63,651.87	
	subtotal Princ & Int			1,022,670.42			999,560.95	
	MWPAT Admin Fees & Loan Origination Fee			5,178.53			4,773.90	
	Total Princ , Int and Fees			1,027,848.95			1,004,334.85	

CURRENT DEBT SCHEDULE - WATER

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
	G. O. Bond - 6/17/08	6,411,316						
15-Sep								
15-Mar	Water Mains	650,000						
15-Sep								
15-Mar	Water Meter Replacments	350,000						
	SUBTOTAL	1,000,000						
	MA. W.P.A.Tr. - Pool 13 - 2007	5,532,288						
15-Jul	Water Storage Tanks DW-06-01	5,532,288	277,957.00	30,463.67	2,768,410.00	283,573.00	27,684.10	2,484,837.00
15-Jan				27,684.10			24,848.37	
	SUBTOTAL	5,532,288	277,957.00	58,147.77	2,768,410.00	283,573.00	52,532.47	2,484,837.00
	G. O. Bond - 6/12/08	24,548,000						
	Refunding Bonds - 1/15/98							
O 15-Aug	Water Main Rehab.	412,308						
15-Feb								
O 15-Aug	Water Treatment Facility	1,344,967						
15-Feb	<i>Original Issue - \$4,760,000</i>							
O 15-Aug	Water Mains	130,833						
15-Feb	<i>Original Issue - \$439,000</i>							
	SUBTOTAL	1,888,108	-	-	-	-	-	-
	G. O. Bond - 6/15/09							
O 15-Jan	Water Main Rehab	300,000	30,000.00	600.00	-			
15-Jul				600.00				
O 15-Jan	Foxwood Booster	150,000	15,000.00	300.00	-			
15-Jul				300.00				
	SUBTOTAL	450,000	45,000.00	1,800.00	-	-	-	-
	G. O. Bond - 12/15/09							
O 15-Jul	Water Main Rehab			781.25			375.00	
15-Jan		250,000	25,000.00	781.25	25,000.00	25,000.00	375.00	-
O 15-Jul	Foxwood Booster			243.75			-	
15-Jan		175,000	15,000.00	243.75	-		-	-
O 15-Jul	Bear Hill Booster Pump			15,146.25			14,090.00	
15-Jan		1,250,000	65,000.00	15,146.25	750,000.00	65,000.00	14,090.00	685,000.00
O 15-Jul	Rosemont Booster Pump			487.50			-	
15-Jan		350,000	30,000.00	487.50	-		-	-
	SUBTOTAL	2,025,000	135,000.00	33,317.50	775,000.00	90,000.00	28,930.00	685,000.00
	G. O. Bond - 02/17/11							
15-Aug	Water Meters	225,000	22,500.00	1,237.50	45,000.00	22,500.00	815.63	22,500.00
15-Feb				815.63			421.88	
	SUBTOTAL	225,000	22,500	2,053	45,000	22,500	1,238	22,500
	G. O. Bond - 05/17/2012							
O 12-Nov				900.00			675.00	
12-May	Water Meters	225,000	22,500.00	900.00	67,500.00	22,500.00	675.00	45,000.00
O 12-Nov				2,760.00			2,070.00	
12-May	Heating, Ventilating and Air Conditioning	690,000	69,000.00	2,760.00	207,000.00	69,000.00	2,070.00	138,000.00
O 12-Nov				1,040.00			780.00	
12-May	Valve & Hydrant Replcement and Installatic	260,000	26,000.00	1,040.00	78,000.00	26,000.00	780.00	52,000.00
	SUBTOTAL	1,175,000	117,500.00	9,400.00	352,500.00	117,500.00	7,050.00	235,000.00
	G. O. Bond - 06/24/13							
O 1-Dec				2,680.65			2,010.50	
1-Jun	Water Mains	573,000	67,015.00	2,680.65	201,050.00	67,016.00	2,010.50	134,034.00
O 1-Dec				266.65			199.98	
1-Jun	Water Meters	60,000	6,667.00	266.65	19,998.00	6,666.00	199.98	13,332.00
O 1-Dec				288.88			216.66	
1-Jun	Flocculation & Sedimentation Building	65,000	7,222.00	288.88	21,666.00	7,222.00	216.66	14,444.00
O 1-Dec				431.10			323.32	
1-Jun	Concrete Repairs and Coating	97,000	10,778.00	431.10	32,332.00	10,778.00	323.32	21,554.00
		795,000	91,682.00	7,334.56	275,046.00	91,682.00	5,500.92	183,364.00
	G. O. Bond - Refunding Series B Bonds 2005- 06/24/13							

CURRENT DEBT SCHEDULE - WATER

Pmt. Date	Purpose	Amount Issued	FY 19			FY 20		
			Principal	Interest	Ending Balance	Principal	Interest	Ending Balance
O 15-Aug	Water Main Rehabilitation	58,361						
15-Feb								
O 15-Aug	Sutton Hill High Service Area	58,361						
15-Feb								
O 15-Aug	Water Main Rehabilitation	2,334						
15-Feb								
	SUBTOTAL	119,056						
G. O. Bond - 06/17/14								
O 1-Dec				141.57			-	
1-Jun	Replacement of Carbon Filter Actuator	47,191	9,438.00	141.57	-	-	-	-
O 1-Dec				1,760.00			1,430.00	
1-Jun	Emergency Power upgrade WTP	220,000	22,000.00	1,760.00	110,000.00	22,000.00	1,430.00	88,000.00
	SUBTOTAL	267,191	31,438.00	3,803.14	110,000.00	22,000.00	2,860.00	88,000.00
	GRAND TOTAL		721,077.00	115,856.10	4,325,956.00	627,255.00	98,110.90	3,698,701.00
	Total Annual Princ & Interest			836,933.10			725,365.90	
	Princ & Int		443,120.00	57,708.33		343,682.00	45,578.43	
	MWPAT Prin & Int		277,957.00	58,147.77		283,573.00	52,532.47	
	subtotal Princ & Int			836,933.10			725,365.90	
	MWPAT Admin Fees & Loan Origination Fee			4,361.09			3,939.94	
	Total Princ , Int and Fees			841,294.19			729,305.84	

CURRENT DEBT SCHEDULE - WATER

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
	G. O. Bond - 6/17/08	6,411,316			
15-Sep					
15-Mar	Water Mains	650,000			
15-Sep					
15-Mar	Water Meter Replacments	350,000			
	SUBTOTAL	1,000,000			
	MA. W.P.A.Tr. - Pool 13 - 2007	5,532,288			
15-Jul	Water Storage Tanks DW-06-01	5,532,288	289,301.00	24,848.37	2,195,536.00
15-Jan				21,955.36	
	SUBTOTAL	5,532,288	289,301.00	46,803.73	2,195,536.00
	G. O. Bond - 6/12/08	24,548,000			
	Refunding Bonds - 1/15/98				
O 15-Aug	Water Main Rehab.	412,308			
15-Feb					
O 15-Aug	Water Treatment Facility	1,344,967			
15-Feb	<i>Original Issue - \$4,760,000</i>				
O 15-Aug	Water Mains	130,833			
15-Feb	<i>Original Issue - \$439,000</i>				
	SUBTOTAL	1,888,108	-	-	-
	G. O. Bond - 6/15/09				
O 15-Jan	Water Main Rehab	300,000			
15-Jul					
O 15-Jan	Foxwood Booster	150,000			
15-Jul					
	SUBTOTAL	450,000	-	-	-
	G. O. Bond - 12/15/09				
O 15-Jul	Water Main Rehab			-	
15-Jan		250,000		-	-
O 15-Jul	Foxwood Booster			-	
15-Jan		175,000		-	-
O 15-Jul	Bear Hill Booster Pump			13,115.00	
15-Jan		1,250,000	65,000.00	13,115.00	620,000.00
O 15-Jul	Rosemont Booster Pump			-	
15-Jan		350,000		-	-
	SUBTOTAL	2,025,000	65,000.00	26,230.00	620,000.00
	G. O. Bond - 02/17/11				
15-Aug	Water Meters	225,000	22,500.00	421.88	-
15-Feb					
	SUBTOTAL	225,000	22,500	422	-
	G. O. Bond - 05/17/2012				
O 12-Nov				450.00	
12-May	Water Meters	225,000	22,500.00	450.00	22,500.00
O 12-Nov				1,380.00	
12-May	Heating, Ventilating and Air Conditioning	690,000	69,000.00	1,380.00	69,000.00
O 12-Nov				520.00	
12-May	Valve & Hydrant Replcement and Installatic	260,000	26,000.00	520.00	26,000.00
	SUBTOTAL	1,175,000	117,500.00	4,700.00	117,500.00
	G. O. Bond - 06/24/13				
O 1-Dec				1,340.34	
1-Jun	Water Mains	573,000	67,017.00	1,340.34	67,017.00
O 1-Dec				133.32	
1-Jun	Water Meters	60,000	6,666.00	133.32	6,666.00
O 1-Dec				144.44	
1-Jun	Flocculation & Sedimentation Building	65,000	7,222.00	144.44	7,222.00
O 1-Dec				215.54	
1-Jun	Concrete Repairs and Coating	97,000	10,777.00	215.54	10,777.00
		795,000	91,682.00	3,667.28	91,682.00
	G. O. Bond - Refunding Series B Bonds 2005- 06/24/13				

CURRENT DEBT SCHEDULE - WATER

Pmt. Date	Purpose	Amount Issued	FY 21		
			Principal	Interest	Ending Balance
O 15-Aug	Water Main Rehabilitation	58,361			
15-Feb					
O 15-Aug	Sutton Hill High Service Area	58,361			
15-Feb					
O 15-Aug	Water Main Rehabilitation	2,334			
15-Feb					
	SUBTOTAL	119,056			
G. O. Bond - 06/17/14					
O 1-Dec				-	
1-Jun	Replacement of Carbon Filter Actuator	47,191	-	-	-
O 1-Dec				1,100.00	
1-Jun	Emergency Power upgrade WTP	220,000	22,000.00	1,100.00	66,000.00
	SUBTOTAL	267,191	22,000.00	2,200.00	66,000.00
GRAND TOTAL			607,983.00	84,022.89	3,090,718.00
Total Annual Princ & Interest				692,005.89	
Princ & Int			318,682.00	37,219.16	
MWPAT Prin & Int			289,301.00	46,803.73	
subtotal Princ & Int				692,005.89	
MWPAT Admin Fees & Loan Origination Fee				3,510.28	
Total Princ , Int and Fees				695,516.17	

Recommended Stevens Estate Capital Budget Projects by Criteria Points and Year Funded (FY17-FY21)

Project Name	Division	Criteria Points	Borrowing Period or Retained Earnings	Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY21	Total
Main House Improvements	Stevens			110,000	60,000	45,000	20,000	20,000	\$255,000
Streetscape Improvements	Stevens			15,000	15,000	5,000	5,000	5,000	\$45,000
TOTAL				\$125,000	\$75,000	\$50,000	\$25,000	\$25,000	\$300,000
Retained Earnings				(\$125,000)	(\$75,000)	(\$50,000)	(\$25,000)	(\$25,000)	(\$300,000)
Net Borrowing				\$0	\$0	\$0	\$0	\$0	\$0

Requested Stevens Estate Capital Budget Projects (FY17 - FY21)

Project Name	Division	Div. Priority	Year 1 FY17	Year 2 FY18	Year 3 FY19	Year 4 FY20	Year 5 FY21	Total	Comments
Main House Improvements	Stevens	1	110,000	60,000	45,000	20,000	20,000	255,000	
Streetscape Improvements	Stevens	2	15,000	15,000	5,000	5,000	5,000	45,000	
TOTAL			125,000	75,000	50,000	25,000	25,000	300,000	

Operating Budget Summary Stevens Estate Capital Budget, (FY17- FY21)

Stevens Estate Enterprise Fund

	Actual FY 2014	Actual FY 2015	Budget FY 2016	Projected FY 2017	Projected FY 2018	Projected FY 2019	Projected FY 2020	Projected FY 2021
Operating Revenue	337,551	483,795	322,682	354,950	390,445	429,490	472,439	519,683
% Budget Increase Per Year	0.53%	43.32%	-33.30%	10.00%	10.00%	10.00%	10.00%	10.00%
Operating Budget	303,781	351,794	322,682	351,723	383,378	417,883	455,492	496,486
% Budget Increase Per Year	4.19%	15.81%	-8.28%	9.00%	9.00%	9.00%	9.00%	9.00%
Total (Profit/(loss))	33,771	132,001	0	3,227	7,067	11,607	16,947	23,196
<i>Transfers provided by G/F to cover Deficits</i>								
Ending Fund Balance	105,006	237,007	237,007	240,234	122,300	58,907	25,854	24,051
<i>Less use of Retained Earnings for Capital</i>				<i>(\$125,000)</i>	<i>(\$75,000)</i>	<i>(\$50,000)</i>	<i>(\$25,000)</i>	<i>(\$25,000)</i>
<i>Projected Fund Balance</i>				115,234	47,300	8,907	854	-949

STEVENS ESTATE FUND CAPITAL BUDGET CRITERIA POINT SCHEDULE

Total	Project	Department	FY 2017	EstTotalCost	Criteria						Score					
					A	B	C	D	E	F	A	B	C	D	E	F
45	Stevens Estate Main House Improvements	Stevens Estate	\$ 110,000.00	\$ 255,000.00	5	0	2	3	0	5	20	0	6	9	0	10
43	Stevens Estate Streetscape Improvements	Stevens Estate	\$ 15,000.00	\$ 45,000.00	5	0	2	3	0	4	20	0	6	9	0	8
Total Stevens Estate Capital Project			\$ 125,000.00	\$ 300,000.00												



CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Stevens Estate **Priority:** 1
Department: Stevens Estate **Type:** Improvement
Project: Stevens Estate Main House Improvements **Cost Basis:** Other
Project Category: Building **Asset Class:** Class 1
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$110,000.00	\$60,000.00	\$45,000.00	\$20,000.00	\$20,000.00	\$255,000.00

Funding Source	Funding Amount	Submitted by: Joanna Ouellette
Stevens Est.	\$255,000.00	Title: Director
Total	\$255,000.00	Date: 11/06/2015

Description

The project involves necessary repairs, replacement and renovations to the Main House to enhance the functionality, safety and attractiveness of the estate as an events center while preserving and enhancing the historical significance of the property. Included in this effort are bathroom renovations; roof repair and upgrade; replacement of HVAC, refrigeration systems, and electrical systems.

Justification

The Stevens Estate's success as an event and conference center is largely reliant on its historical trappings being preserved. However, it is equally critical that prospective clients be accorded modern services and facilities. In the past, such has been accomplished through a band-aid approach that allowed additional physical and operational needs of the facility to accumulate. The proposed project is aimed at more aggressively addressing these capital needs in a proactive, comprehensive manner that will establish firmer business planning.

Description of item to be replaced

The following are the main items being replaced/upgraded: bathroom remodeling; roofs, gutters, copper fascia, and downspouts; air conditioning system; radiator steam traps; refrigeration systems; heating systems (boiler and radiators); hot water heater; plumbing and electrical systems; lighting, emergency /alarm systems; and stained glass window restoration.

Schedule for completion of project

December 2020

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

December 7, 2015

Stevens Estate
723 Osgood Street
North Andover, MA 01845

Conference Room: Exterior window painting

Reglaze, scrape, sand, prime, caulk existing exterior windows where needed.

Paint frames using Benjamin Moore Ultra Spec commercial grade exterior paint.

Estimate: \$1100.00

Kevin Cronin
88 Elm Street
North Andover, MA 01845

A handwritten signature in black ink, appearing to read "Kevin Cronin". The signature is written in a cursive style with a large, looping initial "K".

A/C T CONDENSOR

Ouellette, Joanna L.

From: Foster, Stephen E.
Sent: Friday, August 07, 2015 10:38 AM
To: Kfoury, Eric; Ouellette, Joanna L.
Subject: Fwd: 5 ton condensing unit

See attached quite for AC condenser replacement

Discuss at our meeting next week.

Steve Foster

Sent from my iPhone

Begin forwarded message:

From: "Roberts, Gregory" <groberts@townofnorthandover.com>
Date: August 7, 2015 at 9:53:26 AM EDT
To: "Foster, Stephen E." <SFoster@townofnorthandover.com>
Subject: Fwd: 5 ton condensing unit

Happy Connecting. Sent from my Sprint Samsung Galaxy S® 5

----- Original message -----

From: Griffin Reid Mechanical <griffinreid@comcast.net>
Date: 08/07/2015 9:52 AM (GMT-05:00)
To: "Roberts, Gregory" <groberts@townofnorthandover.com>
Subject: 5 ton condensing unit

To whom it may concern, The price to replace the 5 ton condensing unit is \$3,000.00 complete.

Please contact me with any other questions.

Steven Reid

Griffin Reid Mechanical
(978)887-8011



BREATHE EASIER...
ENVIROTECH HAS CLEARED THE AIR

HVAC SYSTEM CLEANING CONTRACT

September 10, 2015

Contract#: RF091015-04
Representative: Ron Fallon

Joanna Ouellette (978) 682-7072
Stevens Estate
723 Osgood Street
North Andover, MA 01845

HVAC System Cleaning Scope of Work: Clean the interior air-side surfaces of the HVAC system serving the addition great room.

Work Areas:

1. Protect work areas with poly drop cloths.
2. Remove debris after each work shift.

Air Handling Unit, Roof Top Unit, Fan Coil Unit, Fan Power Box, or Heat Pump:

1. Clean the non-porous surfaces of the HVAC Unit such as the Unit housing, the fan housing, the fan motor and blades by contact HEPA-vacuuming, scraping, brushing, and/or hand-wiping.
2. Protect any internal fiberglass or Armaflex lining with poly.
3. Clean the coils by contact HEPA-vacuuming, spraying an evaporator coil cleaner with a low volume pressure washer and brushing the coil fins, and rinsing the coil with clean water.
4. Scrape, brush, and/or contact HEPA-vacuum the drain pan and clear the drain line with compressed air.
5. Contact HEPA-vacuum any internal fiberglass or Armaflex lining.

Air Duct System:

1. Install duct access as needed.
2. Mark dampers before cleaning and returned to the proper position after the cleaning.
3. Place the portion of the duct system being cleaned under a negative pressure with a high velocity HEPA-filtered negative air collector. This prevents the migration of particles into the indoor environment.
4. Clean the air-side interior surfaces of the ductwork by contact HEPA-vacuuming, compressed air cleaning devices, and/or powered or mechanical brushes.
5. Clean all turning vanes, splitters and dampers.



BREATHE EASIER...
ENVIROTECH HAS CLEARED THE AIR

6. Seal all duct access in an airtight manner with sheet metal panels which are screwed and sealed with duct mastic or aluminum foil tape or with manufactured duct access doors. Use existing duct access wherever possible.
7. Remove and clean diffusers and grilles wherever possible and practical.

Client, Owner, or Owner's Representative will:

1. Provide power and water.
2. Provide security and/or access to the work areas.
3. Ensure Mechanical Equipment (AHU) and smoke/fire detectors are de-energized.

Special Services: None.

Non-Prevailing Wage Cost: \$1,800.00

Terms: Due upon completion.

Please do not hesitate to call me at (781) 279-2900 with any questions.

Client's Acceptance: _____ **Date:** _____

QUOTE

Date: 9/30/15

To: Joanna
JOB: Stevens Estate
Andover Ma.

From: PRECISION AIR REFRIGERATION
LOWELL, MA.
(978) 459-0331
dave@precisionairrefrigeration.com
www.precisionairrefrigeration.com

JOB DESCRIPTION: To replace obsolete refrigeration equipment, with the new refrigerant type system, for the walk in cooler.

Duties include: Remove and dispose existing equipment.
Install new evaporator blower with new valves and controls/
Install new condensing unit.
Install interconnecting refrigeration lines.
Reconnect electrical.
Charge, start and set controls for proper operation.

Equipment, labor and materials.....\$ 4887.45

Andover Electric Services

19 Dale Street
Andover, MA 01810
Phone: 978-475-4995
Fax: 978-475-1192
wire_it@comcast.net

FAX

TO:		FROM:	
Name:	Town of North Andover	Sender's Name:	Robert J. Branca, President
Attention:	Steve Foster	Company:	Andover Electric Services, Inc
RE:	Stevens Estate	Date sent:	October 20, 2014
Email:	SFoster@townofnorthandover.com	# pages	
		Including cover:	1

Urgent	✓ For Review	Please Comment	Please Reply
--------	--------------	----------------	--------------

Steve,

We are pleased to quote you a price of **\$29,500.00** to furnish and install 1 – 30 kw natural gas single phase generator.

Price includes the following:

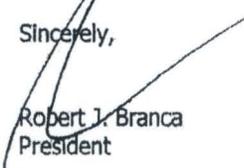
1. Furnish and install single phase 30 kw natural gas generator.
2. Furnish and install single phase automatic transfer switch and necessary wiring.
3. Furnish and install concrete pad with all necessary grounding.
4. Furnish and install wiring to interface new automatic generator to existing single phase service.
5. Provide all necessary excavation and backfill.

- Price does not include gas piping.

Adder: Furnish and install 3 phase generator US 1 phase generator.

Thank you for the opportunity to provide you with this quote. If you have any questions, or require any additional information, please do not hesitate to call me.

Sincerely,


Robert J. Branca
President



19 Dale Street
Andover, MA 01810
Phone: 978-475-4995
Fax: 978-475-1192
wire_it@comcast.net

FAX

TO:		FROM:	
Name:	Town of North Andover	Sender's Name:	Robert J. Branca, President
Attention:	Steve Foster	Company:	Andover Electric Services, Inc
RE:	Generator Stevens Estate	Date sent:	December 18, 2014
Email:	SFoster@townofnorthandover.com	# pages including cover:	1
Urgent		√ For Review	
		Please Comment	
		Please Reply	

Steve,

We are pleased to quote you a price of **\$2,250.00** to furnish and install equipment and wiring for portable generator installation.

Price includes the following:

1. Furnish and install outdoor generator outlet.
2. Furnish and install cord set to generator.
3. Furnish and install manual 12-circuit transfer switch.
4. Furnish and install all necessary wiring to relocate existing circuits from normal power to generator power panel.

Price does not include providing of generator.

Thank you for the opportunity to provide you with this quote. If you have any questions, or require any additional information, please do not hesitate to call me.

Sincerely,

Robert J. Branca
President



■ 959 Concord Street, Framingham, MA 01701
 TEL 508-875-2121 FAX 508-879-3291
 www.epm-inc.com

NORTH ANDOVER - STEVENS ESTATE
 PROPOSAL FOR FIRE PROTECTION ENGINEERING SERVICES

Proposal 15-214 Page 2
 September 25, 2015

September 25, 2015

Stephen E. Foster
 Facilities Director
 Town of North Andover
 384 Osgood Street
 North Andover MA 01845

The Stevens Estate - 723 Osgood Street - North Andover, MA (EPM #15-214)
 Proposal for Fire Protection Engineering Services

Dear Stephen,

Engineering Planning and Management, Inc. (EPM) is pleased to provide fire protection engineering design and consulting services to the Town of North Andover (Client) related to the removal of fire alarm system devices currently installed at The Stevens Estate at 723 Osgood Street.

From review of drawings transmitted via email and telephone discussion, the main estate building has been retrofitted with sprinklers such that many of the fire alarm system devices and components may no longer be required. The three (3) story (plus basement and attic) 7,500 sf (footprint area) building is primarily used as a function space but also includes a transient lodging (residential) use.

As requested, EPM will provide the following services:

Task 1. Perform an inspection and drawing review of the building and fire alarm system existing conditions and perform a review of applicable codes to determine allowable system component/device reductions. A written report of findings will be provided.

Task 2. Prepare design document(s) as the registered MA engineer of record including drawings and a fire protection narrative as required by the MA Building Code for permit and bidding purposes. Specifications will also be provided consisting of drawing notes.

Task 3. Perform an inspection after the installation to verify that the system design has been performed in accordance with the approved permit drawings.

Assumptions

This proposal is based on the following assumptions:

1. The building is currently approved and permitted for the various uses, including transient lodging.
2. The client will provide .dwg files showing the fire alarm as-built device layout.
3. Services will not include identification or recommended solutions for remediation of building or fire code violations that are not related to the fire alarm system.
4. System design services will be limited to reduction of devices/components. If it is determined that new or additional devices or system components are required, scope and fee revision may be required to accommodate additional design consideration, contractor shop drawing review and possibly, an additional progress inspection.

Fees

The services outlined above will be performed for a fixed fee budget of \$5,600 including expenses broken down as follows:

Task 1 – Review and report	\$1,600	Initial _____
Task 2 – Design Documents	\$3,200	Initial _____
Task 3 – Final Inspection	\$800	Initial _____

Terms and Conditions

Engineering Planning and Management, Inc.'s Standard Terms and Conditions are attached to and made part of this proposal. The client's signature will indicate acceptance of these terms.

No deposit is required for this project.

Acceptance

Please indicate your acceptance of the above scope of services and fees by returning a countersigned copy of this letter to our office. You may indicate acceptance of individual tasks by initialing on the lines provided for each task above. This proposal remains valid for 30 days from the date of this proposal.

We look forward to the opportunity to work with the Town of North Andover on this project.

EPM, INC: _____ Town of North Andover, MA

Prepared By:

Accepted By:

September 25, 2015

 Ron Melucci, P.E. Date Name Date

Proposal # 15-214 rev1
 RBM
 Att:

Andover Electric Services

19 Dale Street
Andover, MA 01810
Phone: 978-475-4995
Fax: 978-475-1192
wire_it@comcast.net

TO:
Name: **Stevens Estate**
Attention: **Joanna Ouellete**
RE: **Electric wall heater**
Email: **Joanna@StevensEstate.com**

FROM:
Sender's Name: **Robert J. Branca, President**
Company: **Andover Electric Services, Inc**
Date sent: **October 8, 2015**

Urgent ✓ For Review Please Comment Please Reply

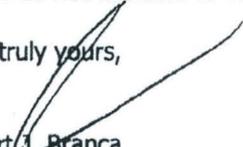
Joanna;

We are pleased to quote you a price of **\$1,290.00** to furnish and install one (1) unit electric wall heater, in the office area.

Price includes wall heater, wiring back to panel and added circuit breaker.

Thank you for the opportunity to provide this quote. If you have any questions, or require any additional information, please do not hesitate to call me.

Very truly yours,


Robert J. Branca
President

Ouellette, Joanna L.

From: Foster, Stephen E.
Sent: Thursday, August 13, 2015 9:00 AM
To: Ouellette, Joanna L.
Cc: Roberts, Gregory; Kfoury, Eric
Subject: Stevens Estate - heating system/energy efficiency
Attachments: steam1_traps.pdf

Joanna:

The following is a cost summary and recommendation regarding heating system energy efficiency improvements ranked in order of preference;

1. Steam Trap replacement:

Material cost	\$ 2,378	Tunstall Co. quote
Labor cost	\$ 2,750	labor cost – BUDGET ONLY → firm quote to be provided once
the preferred scope is defined.	_____	
TOTAL	\$ 5,128	

FACILITIES

- Replacement of old steam traps will increase the efficiency of the steam heating system by capturing the heat value of steam at the terminal equipment (radiator) location.
- See attached DOE publication regarding steam traps.

#3 Installation of individual radiator controls (i.e. "TRV" valves);

Material cost	\$ 4,736	Tunstall Co. quote
Labor cost	\$ 3,500	BUDGET ONLY → firm quote to be provided once the
preferred scope is defined.	_____	
TOTAL	\$ 8,236	

- This energy efficiency measure allows for the heating level adjustment at the terminal equipment (radiator) location.
- This allows the building manager to adjust the heating setting at each room.

#2 Programmable thermostat

BUDGET cost (labor & materials) = \$ 1,000

- This energy efficiency measure allows for the programming of temperature settings given a

- Alternatively the thermostat could remain on the manual adjustment method as previously done. Should this be the desired method of temperature control it is recommended that the following be provided;
 - Relocate existing 2nd floor thermostat to the 2nd floor hallway (in lieu of the directors office).
 - alternative heating method (eg: hard wired electric wall heater) be provided for the directors office (in lieu of portable electric space heater)
 - approximate cost of the above alternative measures is \$ 1,500.

please review and call me if you wish to discuss.

It is recommended that these energy efficiency measures be implemented PRIOR to the start of the heating season (i.e. September = install period).

I have a call into MASS SAVE regarding their participation in the above energy conservation measures and will advise.

It is also possible to provide any of the above in a "phased" approach so as to spread out these improvements over a defined period.

These measures are the next logical step in the facility energy improvement that supplement the recently completed window and attic insulation projects.

Thanks

Stephen E. Foster

Facilities Director
Town of North Andover
384 Osgood Street
North Andover MA 01845

Phone 978.685.0950 x 41306
Fax 978.688.9573
Email sfoster@townofnorthandover.com
website www.TownofNorthAndover.com





CAPITAL COMMITMENT

TRACKING SYSTEM

Division: Stevens Estate **Priority:** 2
Department: Stevens Estate **Type:** Improvement
Project: Stevens Estate Streetscape Improvements **Cost Basis:** Other
Project Category: Land **Asset Class:** Class 1
Project Type: Design/Construction (buildings, open space, athletic fields, water, sewer, drain, DWTP)

FY2017	FY2018	FY2019	FY2020	FY2021	Total
\$15,000.00	\$15,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$45,000.00

Funding Source	Funding Amount	Submitted by: Joanna Ouellette
Stevens Est.	\$45,000.00	Title: Director
Total	\$45,000.00	Date: 11/06/2015

Description

The objective is perform necessary access and circulation repairs and improvements to the land/grounds of this historical manor. This project will enhance the functionality, safety and attractiveness of the estate as an events center while preserving and enhancing the historical significance of the property.

Justification

Currently, (1) access from Osgood Street through the property; (2) pedestrian access into the Main House and outdoor event spaces (tent and ceremony areas); and (3) parking needs are inadequate. This is particularly true when larger events are occurring at the site. In addition, there are site conditions that have deteriorated and pose safety issues that need to be addressed.

Description of item to be replaced

The following are the main items being replaced/upgraded: retaining wall, driveway, pathways, parking lot, dumpster area.

Schedule for completion of project

Estimated value of replaced item: \$0.00

NET Estimated Annual Impact: \$0.00

Explanation

att Jean Enright Date July 10 2015
Customer's Name Town of North Andover (Planning Dept)

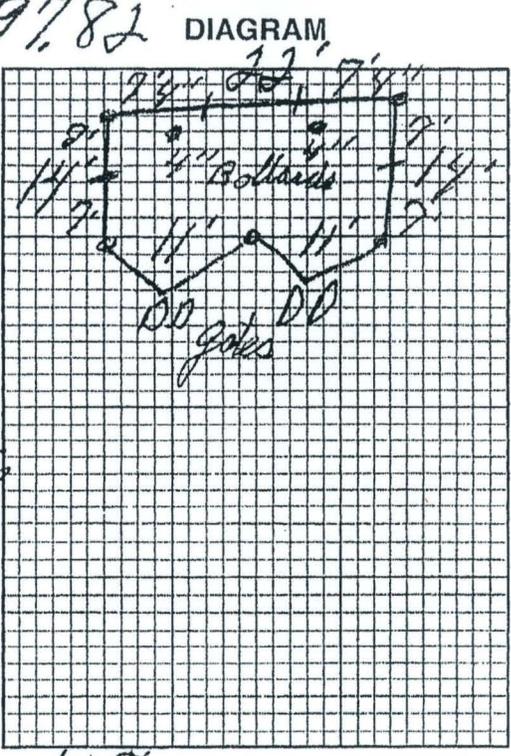
Phone 9786889535 Fax _____

Address 1600 Asgood St North Andover, Ma. 01845
(STREET AND NO.) (CITY) (STATE) (ZIP)

Location of property on which fence materials are to be installed:
Stevens Estate at Asgood Hill (Sumpter area)
(STREET AND NO.) (CITY) (COUNTY) (STATE) (ZIP)

OVERALL LENGTH	OVERALL HEIGHT
72'	6'
OVERALL LENGTH	OVERALL HEIGHT
72'	6'
CHAIN LINK	
WIRE GAUGE	DIAMETER TERMINAL POST
9-6	3"
DIAMETER LINE POST	DIAMETER TOP RAIL
2 1/2	1 5/8
DIAMETER GATE FRAME	LINE POST SPACING
1 5/8	
KNUCKLE UP	BARB UP
✓	
GALV.	COLOR
	Black
WOOD	
TYPE OF WOOD	STYLE OF FENCE

EXTRA INSTRUCTIONS #639782
Proposal for the installation of 6ft all Black vinyl chain link fence #9-6 gauge, all 55 40 pipe, braced on the corners & ends & (2) sets of 6ft x 11ft welded double drive gates & green PDS stave



proposal for the installation of 6ft Tan vinyl privacy fence, 5x5 post, new England post caps & (2) sets of 6ft x 11ft double drive gates & Aluminium post stiffener for gate post, fits inside gate post #654377

SPECIFICATION

TOP RAIL OF FENCE TO FOLLOW GROUND

TO BE LEVEL WITH LOWEST GRADE

TO BE LEVEL WITH HIGHEST GRADE

SPLIT THE GRADE

LINES CLEAR OF OBSTRUCTIONS.

LINES STAKED WITH CUSTOMER

DISCUSS WITH CUSTOMER WHICH POST GATE SWINGS ON. ALSO IF GATE SWINGS IN OR OUT.

The firm of Al McGregor Fence Co. offers, subject to the express approval of its representative, to furnish fence materials and all labor requirements, to the undersigned Customer for the property described herein, in accordance with the Plot and all the terms (including specifications and prices) set forth herein.

The Customer assumes full responsibility for the location of the line upon which said fence and materials are to be installed, and further agrees to defend, hold harmless and indemnify Al McGregor Fence Co. from and against all claims, liabilities and expenses for injury, death, or damage to persons, property damage, trespass and all other damage or loss arising out of the installation or location of said fence and materials.

All excess materials shall remain the property of contractor.

The contractor shall not be held responsible or liable for delay, damage or default hereunder where occasioned by war, strikes, shortages of labor, materials or transportation, acts of civil or military authorities or other causes beyond the control of said parties, the undersigned Customer hereby expressly waiving all such claims.

The responsibility of affording access to all locations of installation shall be solely the Customer's responsibility.

The financial agreements stated herein shall constitute the entire agreement between Al McGregor Fence Co. and Customer. Any amendments or modification shall be submitted in writing and subject to the approval of contractor and Customer.

CASH PRICE	CREDIT SALE PRICE	DOWN PAYMENT	MONTHLY PAYMENT
------------	-------------------	--------------	-----------------

DIAGRAM KEY

FENCE TO BE ERRECTED

TIE-ONS (GET PERMISSION) X

TERMINAL POST O

EXISTING FENCE XXXX

WALK GATE

DOUBLE GATE

BUILDINGS -----

() CASH ON COMPLETION.

() OTHER TERMS AS SPECIFIED

APPROVED AND ACCEPTED DATE _____ 20____

CUSTOMER'S SIGNATURE _____

HUSBAND OR WIFE'S SIGNATURE _____

SALES REPRESENTATIVE _____



FENCING ESTIMATE and PROPOSAL

AL MCGREGOR FENCE CO., INC. P.O. Box 412 • North Andover, Mass. 01845

TELEPHONE 978-683-1047 FAX 978-685-8929

Old Jean Enright

Date July 16 2015

Customer's Name Town of North Andover, (Planning Dept)

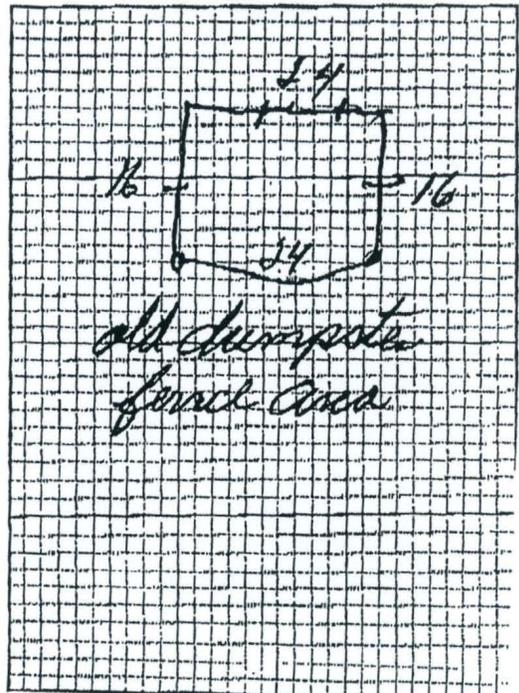
Phone 978 688 9535 Fax 978 688 9542

Address 1600 Osgood St. North Andover, Ma. 01845

Location of property on which fence materials are to be installed: Stevens Estate at Osgood Hill (Dumpster area)

Table with columns for Overall Length, Overall Height, Chain Link (Wire Gauge, Diameter Terminal Post, Diameter Line Post, Diameter Top Rail, Diameter Gate Frame, Line Post Spacing, Knuckle Up, Barb Up, Galv., Color), Wood (Type of Wood, Style of Fence)

EXTRA INSTRUCTIONS # 216.00 DIAGRAM Proposal to take down & away existing wood stockade fence & double drive chain link gate & fence post



- SPECIFICATION TOP RAIL OF FENCE TO FOLLOW GROUND TO BE LEVEL WITH LOWEST GRADE TO BE LEVEL WITH HIGHEST GRADE SPLIT THE GRADE LINES CLEAR OF OBSTRUCTIONS LINES STAKED WITH CUSTOMER DISCUSS WITH CUSTOMER WHICH POST GATE SWINGS ON, ALSO IF GATE SWINGS IN OR OUT

The firm of Al McGregor Fence Co. offers, subject to the express approval of its representative, to furnish fence materials and all labor requirements, to the undersigned Customer for the property described herein, in accordance with the Plan and all the terms (including specifications and prices) set forth herein. The Customer assumes full responsibility for the location of the line upon which said fence and materials are to be installed, and further agrees to defend, hold harmless and indemnify Al McGregor Fence Co. from and against all claims, liabilities and expenses for injury, death, or damage to persons, property damage, trespass and all other damage or loss arising out of the installation or location of said fence and materials. All excess materials shall remain the property of contractor. The contractor shall not be held responsible or liable for delay, damage or default hereunder where occasioned by war, strikes, shortages of labor, materials or transportation, acts of civil or military authorities or other causes beyond the control of said parties, the undersigned Customer hereby expressly waiving all such claims. The responsibility of affording access to all locations of installation shall be solely the Customer's responsibility. The financial agreements stated herein shall constitute the entire agreement between Al McGregor Fence Co. and Customer. Any amendments or modification shall be submitted in writing and subject to the approval of contractor and Customer.

- DIAGRAM KEY FENCE TO BE ERECTED TIE-ONS (GET PERMISSION) X TERMINAL POST O EXISTING FENCE XXXX WALK GATE DOUBLE GATE BUILDINGS

Table with columns: CASH PRICE, CREDIT SALE PRICE, DOWN PAYMENT, MONTHLY PAYMENT. Includes sections for 'CASH ON COMPLETION', 'APPROVED AND ACCEPTED' with signature lines for Customer, Husband or Wife, and Sales Representative, and 'OTHER TERMS AS SPECIFIED'.

BOSTON HILL FENCE, LLC
11 Marbleridge Road North Andover, MA 01845
P: 978-475-9300 F: 978-683-4500
E: lance@bostonhillfence.com

Page 1

July 7, 2015

Steve Foster
Town of North Andover
978 685 0950 x41306
sfoster@townofnorthandover.com
RE: Stevens Estate Dumpster

Dear Steve,

Thank you for the opportunity to provide you with this proposal for the fence work we discussed earlier this week.

Scope of Work:

1. Furnish and install (1) 22' x 12', 3 sided, dumpster enclosure
2. Fence will be 6'tall, all commercial grade materials.

Total: \$2,079.00	All black chain link fence with green privacy slats
\$1,752.00	Add for (2) 11', double drive, chain link, front gates
\$2,237.00	Clay colored privacy vinyl fence
\$2,651.00	Add for (2) 11' double drive, vinyl, front gates
\$537.00	Add (2) bollards at the rear of each dumpster
\$425.00	Add for removal and disposal of the existing dumpster enclosure

Any deviation from above scope will result in price adjustments.

All materials, tax, and labor is included.

Price is good for 15 days.

We accept Visa, MasterCard, and Discover.

Upon acceptance of this proposal 50% deposit is required upfront. The remainder of the contract will be due upon completion of the works rendered.

Please make all payments payable to: Boston Hill Fence, LLC
11 Marbleridge Road
North Andover, MA 01845

Any materials and labor not explicitly stated in this proposal are not included. This proposal and the following addendum (Addendum A) shall be the base document for any subsequent contract and be included in said contract.

BOSTON HILL FENCE, LLC
11 Marbleridge Road North Andover, MA 01845
P: 978-475-9300 F: 978-683-4500
E: lance@bostonhillfence.com

Thank you for this opportunity.

Respectfully Submitted,

Lancing B. Leland (Lance)

Acceptance Signatures:

CLIENT

CONTRACTOR: Boston Hill Fence, LLC

Print Name

Lancing B. Leland

Sign Name

Sign Name

Date: _____

Date: _____

Addendum A:

Pricing is based on installation of all new materials. The fence will follow the contour of the ground unless specified and agreed upon by the client and the seller prior to commencing work. In accepting this proposal, it is assumed that no rock, concrete, foundations, or any other obstacles will be encountered above or below the ground surface. Should there be any such obstacles that would make it necessary for drilling through or removing such obstacles, a monetary charge will be added to this contract for this service. Pricing is subject to change depending upon winter weather conditions. Boston Hill Fence, LLC and Lancing B. Leland are not held responsible for obtaining any permits for the jobs rendered and are not held liable for property boundaries. All materials delivered or installed remain the property of Boston Hill Fence, LLC until the customer has made final payment.

TYLER MUNROE LANDSCAPE CONTRACTOR, INC.

100 FOSTER ST.
NORTH ANDOVER, MA 01845
Phone: (978) 685-3545
Fax: (978) 989-0934
Email: tyler@tylermunroelandscaping.com

PROPOSAL

TO: Joanna Ouellette, Director
The Stevens Estate
723 Osgood St.
North Andover, MA 01845

DATE: 8/26/15
PHONE: 978-682-7072
EMAIL: JOuellette@townofnorthandover.com

WE PROPOSE THE FOLLOWING:

- WALK ON LEFT 45 FT LONG.
WALK ON RIGHT 45 FT LONG.
- 1) Remove sod and dirt, 2 ft wide in a curved path on both sides.
 - 2) SUPPLY AND INSTALL ERROSIAN CONTROL WEED MATTING IN THE EXCAVATED AREA.
 - 3) SUPPLY AND INSTALL 6" COMPACTED BASE MATERIAL.
 - 4) COMPACT WALKS AND PATCH ANY GRASS DISRUPTED.
 - 5 BORDER THE WALKS WITH A 4" STEEL EDGING TO MATCH EXISTING.
- | | |
|------------------------------------|-------------------|
| TOTAL PRICE - LABOR AND MATERIALS: | \$3,250.00 |
|------------------------------------|-------------------|

PAYMENT TO BE MADE AS FOLLOWS:

BALANCE DUE UPON COMPLETION.

PROPOSAL ACCEPTED BY:

NAME	DATE

Proposal

STONE WALLS
BRICK SIDEWALKS

Ray Martineau, Mason
Tel. (617) 685-8395



ROCK STAR CONSTRUCTION STONE MASON *Specializing in Stone Work*

PROPOSAL SUBMITTED TO <i>Joanna</i>	PHONE	DATE
STREET <i>Stevens estate</i>	JOB NAME	
CITY, STATE and ZIP CODE	JOB LOCATION	
ARCHITECT	DATE OF PLANS	JOB PHONE

We hereby submit estimates for:

*80' of gravel sidewalk
Ⓢ Black plastic edging
labor + material \$1740.00*

1 step @ bottom \$300.00

We Propose hereby to furnish material and labor — complete in accordance with above specifications, for the sum of:
dollars (\$ _____)

Payment to be made as follows:

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized Signature _____

NOTE: This proposal may be withdrawn by us if not accepted within _____ days.

Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature *[Handwritten Signature]*

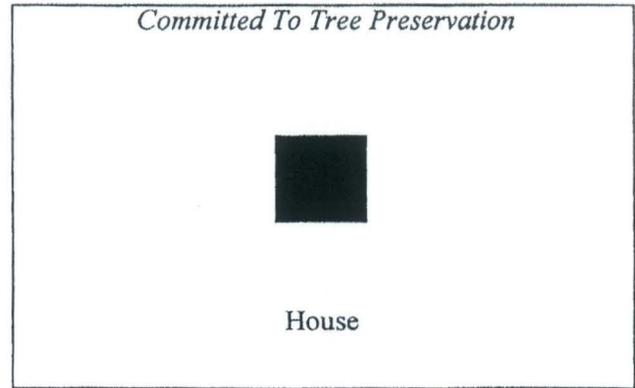
Date of Acceptance: _____

Signature _____



P.O. Box 236 Plaistow NH 03865
 (978) 500-4921 - (978) 768-6999
 Fax (603) 382-6779
 jthomas@mayertree.com

ESTIMATE / CONTRACT



To: Steven's Estate
 12 Bacon Ave
 N.Andover MA 01845

Date: 9/1/15
 Source: referral
 Arborist: Jeff

Home Telephone:

Work Telephone:

Cell Telephone:

YOUR TREE CARE NEEDS

Check One		Service at 723 Osgood St North Andover	Each	
Yes	No			
		Remove hemlock and 2 spruces in back of building		\$2,400
		Remove declining sugar maple		\$800
		Remove leaning blue spruce by utility pole		\$800
		@ Carriage house		
		Remove double stem pine		\$2,100
		Remove spruce by back left corner		
		Prevailing wage rates apply		

*Bill
12/16*

Customer Agrees, upon signing contract that we are not responsible for any driveway, walkway, or lawn damage caused by trucks or equipment used to perform service. Please read the back of contract for terms and conditions.

Owner's Signature _____ Date _____ Total _____

OFFICE USE ONLY Date Paid _____ Deposit _____

Date of Sale _____ Check No. _____ Visa /MasterCard/Discover

Date of Completion _____ Invoice No. _____

Levesque Wood Company, Inc.

213 River Road
Andover, MA 01810

Phone 978-682-8320

Fax 978-682-8322

www.levesquewood.com

PROPOSAL

DATE: Sept. 14, 2015.

Customer Name, Billing Address:	Location of Job Site:
Stevens Estate	723 Osgood St. No. Andover.
723 Osgood St,	
No. Andover, MA. 01845	

We hereby propose to furnish all the equipment and perform all the labor necessary for the completion of the work to be performed as described below. Customer is responsible to carry fire, tornado, and other necessary insurance on listed work. Workmen's Compensation and Public Liability Insurance on the work to be performed is held by Levesque Wood Company, Inc.

DESCRIPTION OF WORK TO BE PERFORMED	AMOUNT
To cut 8 trees original.	\$6,500.00
To cut 1 dead tree.	500.00
To trim 1 tree and few dead limbs.	300.00
To grind the maple stump.	200.00
To grind double pine stump.	200.00
To grind 3 more stumps near the house. To haul away wood.	300.00
Total	\$8,000.00

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to perform the work as described above. Payment will be made upon completion of work performed.

Accepted _____

Signature *Ronald Levesque*

Date _____

Signature _____

WE "WOOD" LOVE TO HAVE YOU AS OUR CUSTOMER!

Stone Wall

stevens estate_stone wall repair_quote_8.27.15
From: Kristin Huberdeau <kgbhub@aol.com>
Sent: Wednesday, August 26, 2015 7:21 PM
To: Foster, Stephen E.
Subject: Gary Huberdeau....Stevens Estate/ Seinior Center

Proposal for Steven's Estate....

All loose or broken mortar joints on the rear field stone retaining wall and the wall return to the building will be ground out and repointed using a colored mortar to match the existing mortar joints.

Total Price....\$8,250.00

=====
Proposal for Senior Center.....

The existing concrete steps and platform on the rear of the building will be removed, the concrete knee wall on the right side of the steps will remain in place. The new steps and platform will be formed up accordingly. A 4000 lb mix will be used to pour and complete the project.

All materials to be purchased and delivered to the job site and removal of all debris per Town of North Andover.

Price for Labor.....\$ 8,000.00

Any questions, please don't hesitate to contact me,

Thank you,
Gary Huberdeau

The Stevens Estate

Bathroom Renovation Project 2017

Problem Statement

The bathrooms at The Stevens Estate were designed to be sufficient in quantity and size for the needs of a family home, but are not sufficient for the venue itoday. The estate welcomes more than three thousand guests each year, with single events attracting upwards of 200 people. The estate can comfortably hold this many guests, but the bathrooms cannot accommodate a large number of guests at one time. In addition, it is proving difficult to sell overnight accommodations because of the poor quality of the bathroom fixtures and finishes.

Goals

The goal of this project is to remodel five bathrooms at The Stevens Estate as follows:

- 1) **Second floor public (hallway) bathroom (men) #1**
- 2) **Second floor public (hallway) bathroom (women) #1**
- 3) **Second floor bridal suite bathroom #2**
- 4) **Second floor grooms suite bathroom #2**
- 5) **Second floor public (hallway) and connecting bathroom to green bedroom(women) #1 and #2 (both public/event bathroom and bedroom-connected en suite bathroom)**

The project breaks into two sections;

- 1) **Public/hallway bathrooms #1**
Public hallway bathrooms need to have old fixtures removed and replaced. The capacity of each of these bathrooms must be increased by adding an extra stall/urinal so they can 'hold' more than one guest at a time during functions. Two of the three bathrooms have outdated shower stalls that are surplus to requirements and need to be removed. The successful project will switch the main men/women's bathrooms on the second floor and provide fixtures so that two people can use the bathrooms at one time.
- 2) **Private bathrooms connected to bedrooms #2**
The estate should be able to generate considerable revenue from overnight room sales because of its' high quality finishes, history, setting and location. Each bathroom connected to a bedroom creates a problem as it hampers perceptions of the estate's aesthetic value. These bathrooms must be updated before we can generate regular ROI on overnight rooms and conceivably make the estate competitive in the marketplace. The bridal suite and the groom's suite are going to be used at least twice a week in 2016's wedding season and these two bathrooms must be updated first (after the public bathrooms) if we are to justify increased rates in future and realize increased revenues. Upon completion, both the bride's suite and groom's suite bathrooms will be restored using historically accurate replacement fittings and finishes.

#1 Second floor public (hallway) bathroom (men)

Task:

- Demolition and removal of non-functioning equipment, Plumbing and fixtures, 2 sinks and non-functional shower stall (and related plumbing), stall and toilet.
- Determine quality and materials used in plumbing behind walls.
- Test (lead paint, asbestos)
- Remove floor coverings, remove failing wall finishes and carpentry
- Replace copper and brass plumbing with plastic plumbing
- Remove debris and broom clean
- Scope, measure and build two toilet stalls at/near window, install toilets.
- Plumb all new equipment and add venting for soil pipes
- Scope and install two sink units and/or cabinetry
- Replace/restore surfaces, fill cracks and holes.
- Source and replace fixtures, faucets plumbing and finishes to historic quality
- Design and install bathroom ventilation
- Measure for and install new floor coverings
- Measure and install carpentry and wood finishes to replicate historic features
- Refinish and paint wall surfaces in historically accurate finishes
- General clean

Administration

tbd

Deliverables

- Remodeled women's bathroom (formerly mens) with two stalls, two toilets, one or two sinks tbd and cabinetry for storage
- Historically accurate finishes or a solution that replicates historic nature of existing fixtures without requiring the sourcing and purchase of original, historic pieces.
- Removal of copper and/or brass plumbing to be replaced by plastic piping
- Addition of ventilation fan

Timeline

Start Project – January 4, 2016

End Project - February 29, 2016

#2 Second floor public (hallway) bathroom (women)

Task:

- Demolition and removal of non-functioning equipment, plumbing and fixtures, 2 sinks and non-functional shower stall (and related plumbing), wood stall and toilet.
- Determine quality and materials used in plumbing behind walls.
- Test (lead paint, asbestos)
- Remove floor coverings, remove failing wall finishes and carpentry
- Replace copper and brass plumbing with plastic plumbing
- Remove debris and broom clean
- Scope, measure and build one toilet stall at window end.
- Plumb all new equipment and add venting for soil pipes
- Scope and install two urinal units.
- Scope and install sink unit and cabinetry
- Replace/restore surfaces, fill cracks and holes.
- Source and replace fixtures, faucets plumbing and finishes to historic quality
- Design and install bathroom ventilation
- Measure for and install new floor coverings
- Measure and install carpentry and wood finishes to replicate historic features
- Refinish and paint wall surfaces in historically accurate finishes
- General clean

Administration

Deliverables

- Remodeled men's bathroom (formerly women's) with one stall and toilet, two urinals, one sink and cabinetry for storage
- Historically accurate finishes or a solution that replicates historic nature of existing fixtures without requiring the sourcing and purchase of original, historic pieces.
- Removal of copper and/or brass plumbing to be replaced by plastic piping
- Addition of ventilation fan

Timeline

Start Project – March 1, 2016

End Project - April 23, 2016

#3 Second floor bridal suite bathroom

Task:

- Demolition and removal of non-functioning equipment, plumbing and fixtures and non-functional shower stall.
- Determine quality and materials used in plumbing behind walls.
- Test (lead paint, asbestos)
- Remove floor coverings, remove failing wall finishes and carpentry
- Repair wall and floor damage near to toilet/shower
- Replace copper and brass plumbing with plastic plumbing
- Remove debris and broom clean
- Replace existing toilet
- Plumb all new equipment and add venting for soil pipes
- Scope, plumb and install replica claw foot tub.
- Restore/repair sink and cabinetry unit.
- Replace/restore surfaces, fill cracks and holes in walls.
- Source and replace fixtures, faucets plumbing and finishes to historic quality
- Design and install bathroom ventilation
- Measure for and install new floor coverings in bathroom and secondary dressing room.
- Measure and install carpentry and wood finishes to replicate historic features
- Refinish and paint wall surfaces in historically accurate finishes
- General clean

Administration

Deliverables

- Remodeled bridal suite bathroom with one toilet, claw foot tub, restored sink and cabinetry
- Historically accurate finishes or a solution that replicates historic nature of existing fixtures without requiring the sourcing and purchase of original, historic pieces.
- Replacement of floor covering
- Removal of copper and/or brass plumbing to be replaced by plastic piping
- Addition of ventilation fan

Timeline

Start Project – April 1, 2016

End Project - June 30, 2016

#4 Second floor grooms suite bathroom

Task:

- Removal of outdated fixtures and fittings connected to bathtub and sink plumbing and fixtures and non-functional shower stall.
- Determine quality and materials used in plumbing pipes behind walls.
- Test (lead paint, asbestos)
- Repair wall and floor damage
- Replace copper and brass plumbing with plastic plumbing
- Remove debris and broom clean
- Replace existing toilet, maintain high level closet
- Plumb all new equipment and add venting for soil pipes
- Scope, replumb and install new fixtures where required in tub.
- Restore/repair sink and cabinetry unit.
- Replace/restore surfaces, fill cracks and holes in walls.
- Source and replace fixtures, faucets plumbing and finishes to historic quality
- Design and install bathroom ventilation
- Measure for and install new floor coverings in bathroom.
- Measure and install carpentry and wood finishes to replicate historic features
- Refinish and paint wall surfaces in historically accurate finishes
- General clean

Administration

Deliverables

- Remodeled groom's suite bathroom with one toilet, claw foot tub, restored sink and cabinetry
- Historically accurate finishes or a solution that replicates historic nature of existing fixtures without requiring the sourcing and purchase of original, historic pieces.
- Replacement of floor covering
- Removal of copper and/or brass plumbing to be replaced by plastic piping
- Addition of ventilation fan

Timeline

Start Project –November 1, 2016

End Project - December 30 , 2016

5 Second floor public (hallway) and connecting bathroom to green bedroom(women)
(both public/event bathroom and en suite bathroom)

Task:

- Removal of outdated fixtures and fittings connected to sink, toilet and shower
- Determine quality and materials used in plumbing pipes behind walls.
- Test (lead paint, asbestos)
- Repair wall and floor damage
- Replace copper and brass plumbing with plastic plumbing
- Remove debris and broom clean
- Replace existing toilet
- Replace existing shower stall with new glass model
- Plumb all new equipment and add venting for soil pipes
- Scope, replumb and install new fixtures
- Restore/repair sink and cabinetry unit.
- Replace/restore surfaces, fill cracks and holes in walls.
- Source and replace fixtures, faucets plumbing and finishes to historic quality
- Design and install bathroom ventilation
- Measure for and install new floor coverings in bathroom.
- Measure and install carpentry and wood finishes to replicate historic features
- Refinish and paint wall surfaces in historically accurate finishes
- General clean

Administration

Deliverables

- Additional corridor bathroom (women or men) with modern fittings
- Fully operational bathroom to be used as connecting en-suite for overnight guests in green bedroom.
- Historically accurate finishes or a solution that replicates historic nature of existing fixtures without requiring the sourcing and purchase of original, historic pieces.
- Replacement of floor covering
- Removal of copper and/or brass plumbing to be replaced by plastic piping
- Addition of ventilation fan

Timeline

Start Project –January 2017

End Project - February 28 , 2017