

\*\*\*\*\***DRAFT**\*\*\*\*\*

**MINUTES OF THE BOARD OF FINANCE  
REGULAR MONTHLY MEETING  
JANUARY 5, 2016**

The Board of Finance Monthly Meeting was held on Tuesday, January 4, 2016 at 7:30 p.m. in Seminar Room 295 A&B, Board of Education Administrative Offices, 501 Kings Highway East, Fairfield, Connecticut.

**MEMBERS PRESENT**

David Becker, James Brown, Christopher DeWitt, Kevin Hoffkins, Mary LeClerc, John Mitola, Robert Stone, James Walsh

**MEMBERS ABSENT**

Thomas Flynn

**ALSO PRESENT**

Robert Mayer, Chief Fiscal Officer, Town of Fairfield  
Joseph Michelangelo, Director of Public Works, Town of Fairfield

**ACTION TAKEN:**

Approved the amended minutes of the Quarterly Review Meeting of November 24, 2015 with a vote of 6 yeas, 0 nays, 2 abstentions (Hoffkins, Stone).

Approved the minutes of the Regular Meeting from December 1, 2015 with a vote of 7 yeas, 0 nays, 1 abstention (Hoffkins).

Approved the resolution in Agenda Item #2 that reads, "RESOLVED, that the First Selectman is hereby authorized, on behalf of the Town of Fairfield, to expend up to \$500,000 to fund Small Town Economic Assistance Project (STEAP) entitled Improvements to the Historic Burr Mansion, one hundred percent of said project cost to be reimbursed by a Small Town Economic Assistance Project (STEAP) Grant.  
Motion passed unanimously.

Vice Chairman Brown called the meeting to order at 7:35 p.m.

Mrs. LeClerc led the Pledge of Allegiance.

Vice Chairman Brown welcomed Mr. Hoffkins to the Board.

**BOARD OF FINANCE  
REGULAR MONTHLY MEETING \*\*\*\* DRAFT \*\*\*\*  
JANUARY 4, 2016**

AGENDA

- 1) To consider and act upon the minutes of the Quarterly Review Meeting from November 24, 2015 and the Regular Meeting from December 1, 2015

Mr. Walsh requested that the minutes of the Quarterly Review Meeting from November 24, 2015 be amended as follows:

Page 3, paragraph 4 should state that the Board requested a presentation from the Town Tax Assessor at the January 5, 2016 meeting of the BOF. Mr. Walsh felt very strongly that this presentation should have been done tonight and he wants the minutes to reflect his opinion.

Mrs. LeClerc asked how the Grand List would affect the mill rate. Mr. Mayer stated that he cannot state what the mill rate may be at this time because only the real estate portion of the assessment is done and the motor vehicle portion is yet to be finalized.

It was agreed, after some additional discussion, that the following sentence would be added to the end of paragraph 4, page 3: After further discussion by the BOF, it was agreed by the BOF to have the Tax Assessor do a presentation at the January 5, 2016 Meeting of the BOF.

Mrs. LeClerc moved and Mr. Stone seconded to approve the changes to the minutes of the Quarterly Review Meeting from November 24, 2015 as noted by Mr. Walsh. Motion carried with a vote of 6 yeas, 0 nays, 2 abstentions (Hoffkins, Stone).

Mr. Walsh moved and Mrs. LeClerc seconded to further amend the minutes of the Quarterly Review Meeting from November 24, 2015, page 3, paragraph 4, line 2 to change the Grand List change from 1.9% to -1.9%. Motion carried with a vote of 6 yeas, 0 nays, 2 abstentions (Hoffkins, Stone).

Vice Chairman Brown called this item for a vote as amended. Motion carried with a vote of 6 yeas, 0 nays, 2 abstentions (Hoffkins, Stone).

Mrs. LeClerc moved and Mr. Stone seconded to approve the minutes of the Regular Meeting from December 1, 2015. Motion carried with a vote of 7 yeas, 0 nays, 1 abstention (Hoffkins).

- 2) To hear, consider and act upon the following resolution as recommended by the Board of Selectmen::  
RESOLVED, that the First Selectman is hereby authorized, on behalf of the Town of Fairfield, to expend up to \$500,000 to fund a Small Town Economic Assistance Project (STEAP) entitled Improvements to the Historic Burr Mansion, one hundred percent of said project cost to be reimbursed by a Small Town Economic Assistance Project (STEAP) Grant.

Mrs. LeClerc moved and Mr. Mitola seconded to bring this item before the Board for consideration, discussion and possible action. Motion carried unanimously.

Mr. Michelangelo presented this item to the Board. Mr. Michelangelo informed the Board that this item was approved by the Board of Selectmen (BOS) at their meeting held in December but it is now 30 days out due to the holidays.. Mr. Michelangelo informed the Board that a good window for this project is February through May so that public usage during the spring and summer seasons will not be adversely affected by this project.

Mr. Michelangelo expressed his gratitude to the Board for holding this meeting in January, despite there not being a great deal of business to conduct, so that it might be possible to get this item approved by the Board and passed to the RTM for their consideration before the window of opportunity for completing this project in a reasonable time has passed.

Mr. Michelangelo informed the Board that the renovations will be mostly to the first floor areas especially the bathrooms and the kitchen but the second floor stairwell will also be renovated. Mr. Michelangelo stated that David Scott Parker is the architect for this project. Mr. Michelangelo also noted that there was \$150,000

**BOARD OF FINANCE  
REGULAR MONTHLY MEETING \*\*\*\* DRAFT \*\*\*\*  
JANUARY 4, 2016**

approved last February for safety renovations for this building and that money will be combined with this project with the work all being done at the same time. Mr. Michelangelo informed the Board that both he and Mr. Jehle from the Fairfield Historical Society will be managing this project for the Town and it is expected that the project will be substantially complete by May 1, 2016 but due to budget constraints the kitchen will not be finished with all new equipment.

In response to a question from Mr. Becker regarding how much of the mansion will be different from the original structure, Mr. Michelangelo informed the Board that this project is being done in coordination with State Historic Preservation authorities and all items will be consistent with the period.

In response to a question from Mr. Walsh if sewage is a big problem for this project, Mr. Michelangelo stated that the sewage issues were dealt with and this work is for fixing the interior.

Mr. Walsh then asked if there would be ADA access involved in this project to which Mr. Michelangelo stated that the only ADA access to be provided at this time would be a ramp from the ground floor to the first floor. Mr. Michelangelo stated that an elevator to provide ADA access to the second floor would cost about \$250,000, a cost this project could not support.

In response to a question from Mrs. LeClerc regarding the timing of receiving this grant, Mr. Michelangelo stated that this grant was applied for in 2014 and the Town received their approval in 2015.

In response to a question from Mr. Walsh regarding the inclusion of a contingency in this project of about 7% - 10%, Mr. Michelangelo informed the Board that it depends on what bids come in at; hopefully the bids will come in below what the package states but if that is not the case, the package will be restructured with add/alternates to allow the project to remain within budget limits.

Mr. Walsh stated that he supports this project but he is concerned about the project not including a contingency; the project cannot go over budget; work must be halted if costs go over the maximum amount. Mr. Becker asked if the entire amount of Grant money isn't spent, does the remaining balance get returned to the State. Mr. Michelangelo stated that any monies left over at the end of the project will be returned to the State but, in his opinion, that will not be an issue.

In response to a question from Mr. Mitola regarding the bid package having a required start date; Mr. Michelangelo stated that the package does contain a start date.

Vice Chairman Brown called this item for a vote. Motion passed unanimously.

3) To Hear, Consider and Act Upon Any Communications  
None

On a motion made by Mr. DeWitt and seconded by Mr. Stone, the meeting was adjourned at 8:25 p. m.

Respectfully submitted,

Deborah J. Garavel  
Recording Secretary

**TOWN OF FAIRFIELD**  
**NON-RECURRING CAPITAL PROJECTS AND ASSOCIATED BOND ISSUANCE**  
**JANUARY 27, 2016 BOARD OF SELECTMEN MEETING**  
**FISCAL YEAR 2016/2017**

**TOWN**

Department	Project	5 Year Bond	15 Year Bond	20 Year Bond	TOTAL
		PRESENTED BY DEPT.	PRESENTED BY DEPT.	PRESENTED BY DEPT.	PRESENTED BY DEPT.
		Project Amount	Project Amount	Project Amount	Project Amount
DPW	Fairfield Woods Library Generator			\$120,000	\$120,000
DPW	Gould Manor Pond Drain./Environ. Improv.			\$250,000	\$250,000
DPW	6-Wheel All Season Dump Truck		\$230,000		\$230,000
DPW	Sherman School Field Renovation			\$100,000	\$100,000
Park & Rec	Golf Course Renovation			\$100,000	\$100,000
IT	Cluster Replacement - Town	\$125,000			\$125,000
Fire	Pumper E-5			\$900,000	\$900,000
<b>SUBTOTAL NON-RECURRING CAPITAL - TOWN:</b>		<b>\$125,000</b>	<b>\$230,000</b>	<b>\$1,470,000</b>	<b>\$1,825,000</b>

**BOARD OF EDUCATION**

School	Project	5 Year Bond	15 Year Bond	20 Year Bond	TOTAL
		PRESENTED BY DEPT.	PRESENTED BY DEPT.	PRESENTED BY DEPT.	PRESENTED BY DEPT.
		Project Amount	Project Amount	Project Amount	Project Amount
CENTRAL OFFICE	IT Server Room Renovation Project			\$200,000	\$200,000
DWIGHT ELEM.	Playground Retaining Wall and Stairs			\$100,000	\$100,000
FFLD. LUDLOWE HIGH	Replace Two 1971 Boilers			\$620,000	\$620,000
SYSTEMWIDE	Security Infrastructure - Camera System		\$1,352,677		\$1,352,677
SYSTEMWIDE	Security Infrastructure			\$668,015	\$668,015
SYSTEMWIDE	CAT 6 Low Voltage and Electrical Project			\$230,000	\$230,000
<b>SUBTOTAL NON-RECURRING CAPITAL - BOARD OF ED:</b>		<b>\$0</b>	<b>\$1,352,677</b>	<b>\$1,818,015</b>	<b>\$3,170,692</b>

<b>GRAND TOTAL NON-RECURRING CAPITAL:</b>	<b>\$125,000</b>	<b>\$1,582,677</b>	<b>\$3,288,015</b>	<b>\$4,995,692</b>
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# **NON-RECURRING CAPITAL**

## **SECTION 1**

### **PROJECTS**

**01-27-2016**



## Town of Fairfield

Joseph Michelangelo, P.E.  
Director

Fairfield, Connecticut 06824  
Public Works

Sullivan Independence Hall  
725 Old Post Road  
(203) 256-3010  
FAX (203) 256-3080

January 15, 2016

Please find the enclosed 14 point document for the following Capital Non-Recurring Requests:

Department	Project	Project Amount	Reimbursement	Net Project Amount
DPW	Fairfield Woods Library Generator	\$120,000	0	\$120,000
DPW	Gould Manor Pond Dredging	\$250,000	0	\$250,000
DPW	6-Wheel All-Season Wing Plow Dump Truck	\$230,000	0	\$230,000
DPW	Sherman School Field Renovation	\$100,000	0	\$100,000

Sincerely,

Joseph Michelangelo, P.E.  
Director of Public Works

## Fairfield Woods Library Generator

**Cost: \$120,000**

1. **Background** – Fairfield Woods Library has never had a backup generator. It will be very beneficial to provide back-up power during severe storms and other power interruptions. This will provide complete power to the building to insure that the computer systems are not interrupted, and the employees and public can continue to work in the building. During any outage of more than a couple of hours, the building is forced to close. Currently, a small portable gasoline generator is brought to the site during outages to keep only the computer servers operational. This is an inefficient and unreliable method, and does not allow the remainder of the building to function.
2. **Purpose and Justification** – The purpose of the project is to provide back-up emergency power during power outages at Fairfield Woods Library. It is desirable because:
  - The building will be automatically transferred to generator power within seconds of a loss of power. It will keep all the building system’s running (lights, HVAC, computers, phones, etc.).
  - It will allow the employees to work, the library to remain open, and continue to provide services to our residents.
  - It will prevent potential damage to the building’s infrastructure (frozen pipes, over heating of computer equipment, etc.) in the event a power outage were to occur during an extreme hot or cold period.
3. **Detailed Description of Proposal** – The project involves installing a 125kW natural gas fueled generator that will provide 100% back-up power for the operation of Fairfield Woods Library.

The project scope and cost estimates include:

• Natural gas fueled 150 kW 120/208 volt 3 phase stand-by generator	\$60,000
• 800 Amp Automatic Transfer Switch	\$20,000
• Excavation and pad, setting of unit	\$ 5,000
• Electrical connections & wiring	<u>\$ 25,000</u>

Subtotal:	\$110,000
Plus contingency:	<u>\$ 10,000</u>

**Total: \$120,000**

4. **Reliability of Cost Estimate** – On a scale of 0 to 10, the reliability of the estimate is a 9.0.
5. **Increased Efficiency or Productivity** – If the building is out of power for a period of time, the building must be closed and the public will not be able to use the services. Because most home will most likely be out of power too, the demand from users increases during this period.

Employees cannot work during power outages and would be sent home, or reassigned to Main Library if applicable

6. **Additional Long Range Costs** – Maintenance and fuel for the generator estimated at less than \$3,500 per year.
7. **Additional Use or Demand on Existing Facilities** – None Anticipated
8. **Alternatives to this Request** – If we do nothing we must close the building during nearly any power outage. There will be a loss of service to the public and the productivity of the building’s employees.
9. **Safety and Loss Control** – The generator prevents damage to the building’s components (HVAC, pipes, computers etc.) During a long extended power outage with severe hot or cold temperatures, we face the risk that damage can occur to the building.
10. **Environmental Considerations** – Current natural gas generators produce very little air pollution and run very quietly.
11. **Insurance** – The installation contractor will be required to carry the necessary insurance prescribed by the Purchasing Department.
12. **Financing** – Project will be bonded as part of the Non-Recurring Capital budget of 2016.
13. **Other Considerations**: None
14. **Other Approvals**:

Board of Selectman	-	Jan. 2016
Board of Finance	-	Feb. 2016
RTM	-	Feb. 2016

## **Gould Manor Pond Dredging**

**Cost: \$250,000**

- 1. Background** – Several rain events in 2006-2014 have caused flooding of the Grasmere Brook that travels through Gould Manor Park via the pond and spillway system. In addition, small urban ponds require maintenance on a 10 to 20 year time frame in order to keep the pond from silting which causes negative impacts to the floodwater storage capacity and surface water quality. Gould Manor Pond was last dredged in the early 1980's as part of a Town capital project.
- 2. Purpose and Justification** – The purpose of the project is to provide environmental improvements and improved detention storage to alleviate some flooding and washout erosion at the Park, ballfields and nearby neighborhood. The pond was last dredged in the early 1980s and the accumulation of sediment has created a shallow delta inlet, resulting in more insects, an attraction for geese and a shallower pond with decreased water quality. Left unabated, the condition of the pond will become a nuisance and possibly a threat to human health because of increased mosquito breeding habitat.
- 3. Detailed Description of Proposal** – The project will include the dredging of the pond which includes: dewatering of the pond, creating a temporary water bypass, the repointing of stone on the masonry dam, and the excavation and removal of 5,000 cubic yards of potentially impacted soils. In addition, the existing masonry dam would be inspected and repointed as needed to fix any structural deficiencies. The dredged sediments would require special handling and disposal since past sampling of the pond sediments have found the presence of Semi Volatile Organic Compounds. The dredged sediments would require disposal at a regulated landfill that accepts these types of low-level pollutants as daily cover for landfills.
- 4. Reliability of Cost Estimate** – Based on past disposal and transportation of contaminated soils, this cost estimate's reliability on a scale of 0 to 10 is a 7.5 based on varying factors such as exact volume of excavation, transportation costs, and dumping costs. Only after a contract bid, will these numbers become more accurate (9.0). Volume measures and weights can vary depending on water content in soil.
- 5. Increased Efficiency or Productivity** – When the project is completed, the area should receive an environmental improvement and provide increased stormwater storage. Unfortunately the pond would have to be made significantly larger in size and deeper to provide additional flood protection.

6. **Additional Long Range Costs** – There would be no additional long range costs. If funding allows, the Town can construct additional sediment traps in the form of natural and man-made structures to collect sediment. This could include sediment forebays, catch basins with larger sumps, and gross particle separators for the contributing storm systems which would reduce the amount of silt and sediment that would be transferred into the pond with each stormwater event. The addition of sediment forebays would increase the duration of time in which subsequent maintenance dredging would need to occur.
7. **Additional Use or Demand on Existing Facilities** – None Anticipated; although current park activities such as skating, fishing, and walking around the Pond would be enhanced.
8. **Alternatives to this Request** – Do nothing. There would be less detention storage available and the pond will continue to “fill in”. Activities and enjoyment of the area will be diminished and possible human health impacts could result from increased mosquito breeding habitat.
9. **Safety and Loss Control** – Flooding potential would worsen if the pond is not completed in the near future. If the pond dredging is completed, side slopes will be tapered to reduce sudden drop offs in the event of illegal swimming. The existing masonry dam will also be inspected and repointed as needed to address any potential structural deficiencies.
10. **Environmental Considerations** – All local environmental permits have been secured. Environmental benefits will be improvement of water quality, and better habitat for flora and fauna, and the reduction of mosquito breeding habitat. Removal of contaminated soils will have to meet State/Federal regulations and protocol for proper excavation, storage and disposal activities including waste manifests. Deeper water in the pond after the dredging is completed will promote better water quality and will support more fish and wildlife.
11. **Insurance** – Any selected Consultants/Contractors will be required to carry the necessary insurance prescribed by the Purchasing Department.
12. **Financing** – Project will be bonded as part of the Non-Recurring Capital Appropriation. Since this is considered maintenance of a stormwater facility, there are no federal or state grants that would be available for this specific project.
13. **Other Considerations**: N/A. Although the Town can investigate if there are “in house labor cost savings”, removal of contaminated soils is considered a specialty field.

**14. Other Approvals:**

- IWPA - approved 2007 with conditions
- Board of Selectman - Jan 2016
- Board of Finance - Feb 2016
- RTM - Feb 2016

**Photographs of the existing pond conditions**



## **6 -Wheel All-Season Dump Truck**

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**Cost: \$230,000**

**1. Background** - The heart of the Towns Public Works fleet are approximately 20 dump trucks which are in the 38,000 gross vehicle weight (GVW) range. The truck has a built in conveyor system which allows it to be used interchangeable for construction hauling without any modifications or time delays. The Truck is equipped for winter operations (snow & ice) and is a front line truck assigned to one of the Town's 27 plow routes.

**2. Purpose and Justification** - To replace one of the 6 Wheel All-Season Dump Trucks (#290), a 1990 International 7400. This vehicle has 110,000 miles, and is no longer reliable. Replacement parts are no longer available, and the vehicle is well beyond its normal serviceable life. If a new truck is approved, the existing truck will be sold at auction, and is not expected to be worth more than \$5,000.

**3. Detailed Description of Proposal** - The Truck will be purchased through a public bid process. The estimated price of \$200,000 is from the following major components:

Truck chassis -	\$105,000
Truck body & conveyor -	\$70,000
Plow & pre-wet system -	\$35,000
Wing Plow-	\$20,000

**4. Reliability of Cost Estimate**- On a scale of 1 to 10, the reliability of this estimate is a 9

**5. Increased Efficiency and Productivity** - This will allow us to continue to perform related construction work during the entire year. It will also allow us to successfully manage winter snow & ice operations.

**6. Additional Long Range Costs** - None.

**7. Additional Use or Demand** - Addressing this issue would not create any additional demand or usage.

**8. Alternatives To This Request** - The existing truck is not worth rebuilding the engine, as it would exceed the value of the vehicle. If not approved, we would continue to nurse this truck along, but it would have to be put out of service in the very near future. Not replacing this truck would adversely affect the service levels of the department, and the amount of in-house asphalt work we can perform.

**9. Safety** - If not addressed, the truck will continue to deteriorate and will need to be taken off the road.

**10. Environmental Considerations** - Newer diesel trucks have elaborate emissions systems which are far superior to the previous generation of trucks.

**11. Insurance-** This type of item is not covered by insurance.

**12. Financing-** Project bonded as part of non-recurring capital appropriation.

**13. Other Considerations-** None.

**14. Approvals-**

Board of Selectmen    Jan 2016

Board of Finance        Feb 2016

RTM                        Feb 2016

## Sherman School Athletic Field Renovation

Cost: \$100,000

1. **Background** – The field behind Sherman School have always been playground type fields. However, due to space limitations in Town, just about all of the schools are also used for Park & Recreation activity. There is currently one softball field (which is used for both youth girls and adults), and four half sized soccer fields which are used for under 5<sup>th</sup> grade boys and girls leagues.
2. **Purpose and Justification** – Although these fields serve the purpose, they were never designed as athletic fields. Because of the current usage, there is a higher level of expectation from those using the fields (coaches and parents). This will create a better softball infield, and properly graded soccer fields. Improved drainage and irrigation will allow the field to be more playable. There will be fewer weather related cancelations and less annual turf replacement necessary.
3. **Detailed Description of Proposal** – The project scope involves:
  - New clay skin infield
  - Backstop & dugout fencing
  - Drainage system
  - Irrigation system
4. **Reliability of Cost Estimate** – On a scale of 0 to 10, the reliability of the estimate is a 9.0.
5. **Increased Efficiency or Productivity** – Better fields will allow scheduled events to go on as planned. Irrigation will reduce the amount of dead turf that needs to be replaced annually.
6. **Additional Long Range Costs** - Increased water use due to irrigation
7. **Additional Use or Demand on Existing Facilities** – No increase scheduling of events are planned.
8. **Alternatives to this Request** – The fields can continue to be used as is for many years to come at the same level of service. If we want to improve the level of service, these improvements are needed.
9. **Safety and Loss Control** – Fencing along the softball benches will be an improvement. The current status of the fields does not present safety concerns.
10. **Environmental Considerations** – None
11. **Insurance** – Any contractor utilized for this work will be required to carry the necessary insurance prescribed by the Purchasing Department.
12. **Financing** – Project will be bonded as part of the Non-Recurring Capital budget of 2016.

13. **Other Considerations:** None

14. **Other Approvals:**

Board of Selectman	-	Jan. 2016
Board of Finance	-	Feb. 2016
RTM	-	Feb. 2016

**H. SMITH RICHARDSON**

# BUNKER RENOVATION

NON-RECURRING CAPITAL REQUEST



**Town of Fairfield Golf Commission**

Submitted, January 15, 2016

### **1. Background:**

In 2010 the Golf Commission presented a 10-year master improvement and financial plan for H. Smith Richardson Golf Course, to the First Selectman and the Board of Finance. This plan was accepted and implementation beginning in FY 2011. The plan calls for a \$1.0MM reinvestment in the golf course infrastructure. The plan spreads the necessary projects over a ten year period, prioritizing improvements and targeting an expenditure level of roughly \$100K each year. This request is for \$100,000 in order to continue that plan and the improvements to the course.

### **2. Purpose & Justification:**

In the upcoming year, we will be renovating three bunkers on holes 3 & 6, making drainage improvement on holes 1 & 8, as well as expanding two tees on holes 2 & 14. The golf course bunkers were in very poor condition. The bunkers did not drain properly, held storm water for days, and were lacking sufficient sand. We will also be regrading, leveling and expanding two tees on holes 2 & 14.

The present square footage on the second hole is too small to handle the golf traffic. Most golfers use an iron club on this tee which causes divots, and with the overall usage it's difficult to keep a smooth, level, safe teeing area. The tee on the 14<sup>th</sup> hole needs leveling and enlargement.

Drainage in playing areas of the fairways and rough are an ongoing issue. Areas that have been completed have greatly improved playing conditions, allowing carts to travel on these areas much sooner after a rain event. In the past, the course would have golf carts on the cart paths only, which discouraged golfers from playing and affected revenue.

### **3. Detailed Description of Proposal**

Three bunkers will be rebuilt and reshaped as well as two tees. We will also be doing needed drainage on the 1<sup>st</sup> hole which puddles and holds water after rain events. The pond on the 8<sup>th</sup> hole will be dredged to lower the water table and drainage will be installed to alleviate wet areas on the 8<sup>th</sup> hole.

Bunkers, Drainage and Tee work:

- removal of existing sand, reshaping and carving out of edges and base
- reshaping and compacting the bunker
- adding, compacting or replacing sand
- compacting or replacing soil and or sod
- installing four inch drainage pipe and 3/8" stone
- stripping sod, ledge removal, adding soil, regrade, level tees, & resod

The cost breakdown is as follows:

**Bunkers**

5500sq. ft. x \$2.55 =	\$14,025 Labor
800 ft. x \$13.75 =	\$11,000 Labor to install drainage
800 ft. of pipe x \$2.60/ft. =	\$ 2,080
170 tons of bunker sand x \$48.50 =	\$ 8,245
35 tons topsoil x 20 =	\$ 700
	<u>\$36,050</u>

**Tees**

11,000 sq. ft. of tee x 2.55	\$28,050 Labor
14,000 sq. ft. of sod x .28	\$ 3,920
100 tons soil/fill x 20	\$ 2,000
Irrigation repair/adjustments	\$ 2,000
Rock/Ledge removal	\$ 3,000
	<u>\$38,970</u>

**Drainage/Pond Dredge**

900 ft. x \$13.75	\$12,375 Labor
900 ft. pipe x 2.60	\$ 2,340
400 tons gravel x 22	\$ 8,800
	<u>\$23,515</u>

**Contingency** **\$ 1,465**

**Total Projects Cost** **\$100,000.00**

**4. Reliability of Estimated Cost**

The cost estimate is made up of known prices for materials and labor and machine based on current bid.

**5. Increase Efficiency or Productivity**

These terms don't directly apply to this type of project but there are advantages. With these improvements it is expected that additional revenue would be generated through additional rounds as the golfing community realizes the improved conditions. We have seen an increase in revenue with the drainage improvements that were made the past years, yielding an increase in cart revenue.

**6. Additional Long Range Costs**

There will be none except for the regular daily maintenance during the golf season, as the improvements being made will last 20 years.

**7. Additional Use or Demand on Existing Facilities**

We do expect additional use with these improvements however we do not anticipate additional burdens on the existing facilities as a result.

**8. Alternatives to this request**

The alternative discussed was to try to do the work with our present work force; however we do not have the manpower or the expertise to handle these large projects while still performing the daily maintenance of the golf course. Should these improvements not be made we will see a reduction in revenue as golfers will play at courses with better conditions.

**9. Safety & loss Control**

The proposed renovations will make the playing of golf a safer environment. With the existing conditions of the bunkers there is a very good possibility of the golfer being injured by hitting rocks due to the wash out conditions.

**10. Environmental Considerations**

The Conservation Commission has approved all the drainage aspects associated with the renovations.

**11. Insurance**

Contractor will be required to carry insurance coverage.

**12. Financing**

Bonded

**13. Other Considerations**

None

**14. Other Approvals**

Board of Selectman

Board of Finance

RTM















Non-Recurring Capital

14 Points for IT Department request to non-recurring budget.

1. **Background:** The Town of Fairfield has 3 Data Centers (SIH, PD, and Fairfield Woods Library) each one contains and Virtual Server/File solution that are powered by a Network Attached Storage Device (or NAS for short) which is a large array of Disk Drives that houses the virtual server images and specific files for each data center.
2. **Purpose and Justification:** The NAS Units are now older than their expected replacement schedules by approximately 2 to 3 years. The NAS Units have been marked as End of Life from the Manufacturer as of 2012. The last date of service is now marked as Q3 2017 which means we will no longer be able to get parts and support on the product from the people who produced it. The cost for maintaining the older technology is fast approaching the cost to purchase a single new unit. There also have been significant upgrades in the technology these devices are built upon which leads to greater performance for the virtual systems to operate more efficiently and effectively.
3. **Detailed Description of Proposal:** The IT Department is proposing to replace a Single NAS per Budget Year until all 3 have been replaced and upgraded. This would start with Fairfield Woods Library as that is the smallest active site (currently housing only 9 active Library v servers) but is the most critical for the Town as it serves as the Town's primary backup and disaster recovery location. We would look to install this NAS first to make sure the larger Active Sites (SIH and PD) have fully backed up Data prior to upgrading them in the future years.
4. **Reliability of Estimated Cost:** While we have gotten quotes from various vendors regarding this project but the quotes themselves are only valid for a short period of time. We have had the quotes refreshed during the past year and most have remained cost consistent which gives us a fairly high degree of certainty of the attached estimated costs based on the vendor selected.
5. Increased Productivity is expected in better response time for all virtual systems. While not sounding like much some systems will see an improvement of up to 4 seconds in time per transaction. At 4 secs per transaction with up to 500 transactions per day equates to approximately 15 hours a month in gained employee productivity. We will be saving actual dollars for 3 years because a new NAS is given Premium Support for 3 years. Our extended support has averaged approximately 40K per year the past 3 years.(about 13K per Data Center)
6. **Additional Long-Range Costs:** The only additional expected long term cost related with this expenditure is the ongoing cost of a maintenance contract would not start until the newer units are 3 years old.
7. **Additional Use:** There should be no additional burdens on facilities or labor due to this request.
8. **Alternates:** You can see the number of alternates that we have explored with the attached quotes. Any solution that is not a direct Vendor replacement will require a bit more IT labor but that is to be expected with any storage refreshment project.
9. **Safety and Loss:** All Units will be in physically controlled and locked Data Centers.
10. **Environmental Impacts:** None are expected due to this project.
11. **Insurance:** No changes in insurance rates are expected from this project.

12. **Financing:** This is a bonding project as described there are opportunities to Finance through a leasing option but that would cause the Town to incur additional interest which will add cost to the project.
13. **Other Consideration:** Space for file storage is currently in a limited supply and growth is restricted. This project accounts for expected file storage growth over a 5 year period which our current solution is not capable of providing.
14. **Other Approvals:** Board of Selectmen, Board of Finance

Consolidated Computing, Inc.

380 Morehouse Road  
 Easton, CT 06612

# Quote

Date	Quote #
11/3/2015	3806

Client Name/Address
Town of Fairfield 725 Old Post Road Fairfield, CT 06824

Item	Description	Qty	Price per Unit	Total
CN3400-12adc	Server, Storage, Backup, Disaster Recovery and WAN Acceleration Solution  OmniCube, 2xE5-2640v3, 2.5GHz 16Core, 4x400GB SSD, 20x1TB HDD (13TB before data-deduplication), 512GB memory (412GB usable memory)	4	83,703.10	334,812.40T
CN3400-12adc-S5	5 Yr Silver Support for OmniCube CN-3400-12a dc. Next Business Day parts & service, 24 X 7 Technical phone support	4	17,700.00	70,800.00T
EZDR-PLUS-70-Y1	First Year subscription for EZDR-PLUS valid for 2- vCenters, 3-datacenters, and 70 virtual machines	1	10,150.00	10,150.00T
EZDR-PLUS-70-YR	EZDR-PLUS Yearly renewal for 2-vCenters, 3 Datacenter, and 70 virtual machines (2nd thru 5 Year Support)	4	2,030.00	8,120.00T
EZDR-PLUS-RemInst	EZDR-PLUS 4hour remote installation assistance	1	0.00	0.00T

<b>Subtotal</b>
<b>Sales Tax (0.0%)</b>
<b>Total</b>

Web Site
<a href="http://www.consolidatedcomputing.com">www.consolidatedcomputing.com</a>

Consolidated Computing, Inc.

380 Morehouse Road  
 Easton, CT 06612

# Quote

Date	Quote #
11/3/2015	3806

Client Name/Address
Town of Fairfield 725 Old Post Road Fairfield, CT 06824

Item	Description	Qty	Price per Unit	Total
EZDR-AW-2D	**EZDR 2-day on-site Automation Workshop. See attached Service Brief. Includes Consolidated Computing VMWARE 20/20 Services	1	10,000.00	10,000.00T
CCI-SERV-SIMPLIV	SimpliVity install, configuration, integration, storage migration and training  5 Year Lease, \$ 1.00 Buyout Annual Payments (5) \$ 96,441.50 Monthly Payments (60) \$ 8,118.50	10	1,500.00	15,000.00T

			<b>Subtotal</b>	\$448,882.40
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If you have any questions please contact:  
 Don Hanson  
 203-268-3455  
 donhanson@consolidatedcomputing.com

Web Site
<a href="http://www.consolidatedcomputing.com">www.consolidatedcomputing.com</a>

<b>Sales Tax (0.0%)</b>	\$0.00
-------------------------	--------

<b>Total</b>	\$448,882.40
--------------	--------------



# SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GDNC449	11230937	5/7/2015

**BILL TO:**  
TOWN OF FAIRFIELD  
725 OLD POST RD

**SHIP TO:**  
TOWN OF FAIRFIELD  
Attention To: IT DEPT.  
725 OLD POST RD

Accounts Payable  
FAIRFIELD , CT 06824-6689

FAIRFIELD , CT 06824-6689  
Contact: DAN  
SCIGLIMPAGLIA 203.256.3047

Customer Phone #203.256.3047

Customer P.O. # N500 - 5 YEAR QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
NICK IANUS 866.872.0835	DROP SHIP-GROUND	American Express	GOVT-EXEMPT

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	3466557	NEXGEN N5-500 HYBRID FLASH ARRAY Mfg#: XN50-5264-11E Contract: NJPA 100614#CDW Technology Catalog 100614#CDW	95,000.00	95,000.00
1	3466563	NEXGEN N5-500,5YR,7X24 SUPPORT ORP Mfg#: XN50-50GO-05Y Contract: NJPA 100614#CDW Technology Catalog 100614#CDW	28,750.00	28,750.00
1	2976678	NEXGEN N5 INSTALLATION 1 SYSTEM Mfg#: XN50-INST-001 Contract: NJPA 100614#CDW Technology Catalog 100614#CDW Electronic distribution - NO MEDIA	1,800.00	1,800.00
SUBTOTAL				125,550.00
FREIGHT				0.00
TAX				0.00

US Currency

**TOTAL** 125,550.00

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8180

**Please remit payment to:**  
CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515



# SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GDNC549	11230937	5/7/2015

**BILL TO:**  
TOWN OF FAIRFIELD  
725 OLD POST RD

**SHIP TO:**  
TOWN OF FAIRFIELD  
Attention To: IT DEPT.  
725 OLD POST RD

Accounts Payable  
FAIRFIELD , CT 06824-6689

FAIRFIELD , CT 06824-6689  
Contact: DAN  
SCIGLIMPAGLIA 203.256.3047

Customer Phone #203.256.3047

Customer P.O. # GDNC549 QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
NICK IANUS 866.872.0835	UPS Ground (2- 3 Day)	American Express	GOVT-EXEMPT

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	3514904	NEXGEN N5-300 HYBRID FLASH ARRAY Mfg#: XN50-2664-11E Contract: NJPA 100614#CDW Technology Catalog 100614#CDW	70,000.00	70,000.00
1	2976678	NEXGEN N5 INSTALLATION 1 SYSTEM Mfg#: XN50-INST-001 Contract: NJPA 100614#CDW Technology Catalog 100614#CDW	1,800.00	1,800.00
1	NEW-ITEM	Electronic distribution - NO MEDIA NEW ITEM Mfg#: NEW-ITEM Contract: MARKET 5 year support	21,550.00	21,550.00
			SUBTOTAL	93,350.00
			FREIGHT	170.84
			TAX	0.00

US Currency

**TOTAL** ➔ **93,520.84**

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8180

**Please remit payment to:**  
CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515

# Nimble Storage Proposal





Headquartered in  
**San Jose, US**

**6,800**  
Customers

**10,000**  
Systems sold

Operations in  
**50+ countries**

## Key Alliances



**Gartner**

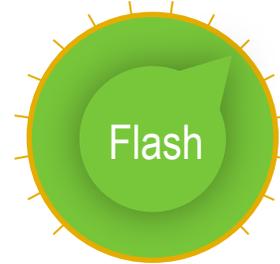
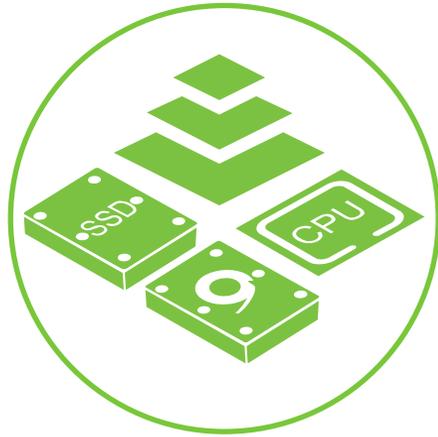
MQ Leader for 2015

# G5000 Enterprise Customer Examples

Retail and Consumer Brands	Communications and Telecom	Healthcare	Mining/ Exploration
Financial/ Consulting	Service Providers	Manufacturing	Entertainment and Hospitality

Non-Recurring Capital

**CASL**  
Flash-optimized file  
system software



**InfoSight**  
Cloud-based  
management/support

## Performance and Capacity



Significantly better  
performance/\$ and capacity/\$

## Scale-to-Fit



Non-disruptive, flexible  
scaling to massive scale

## Integrated Protection

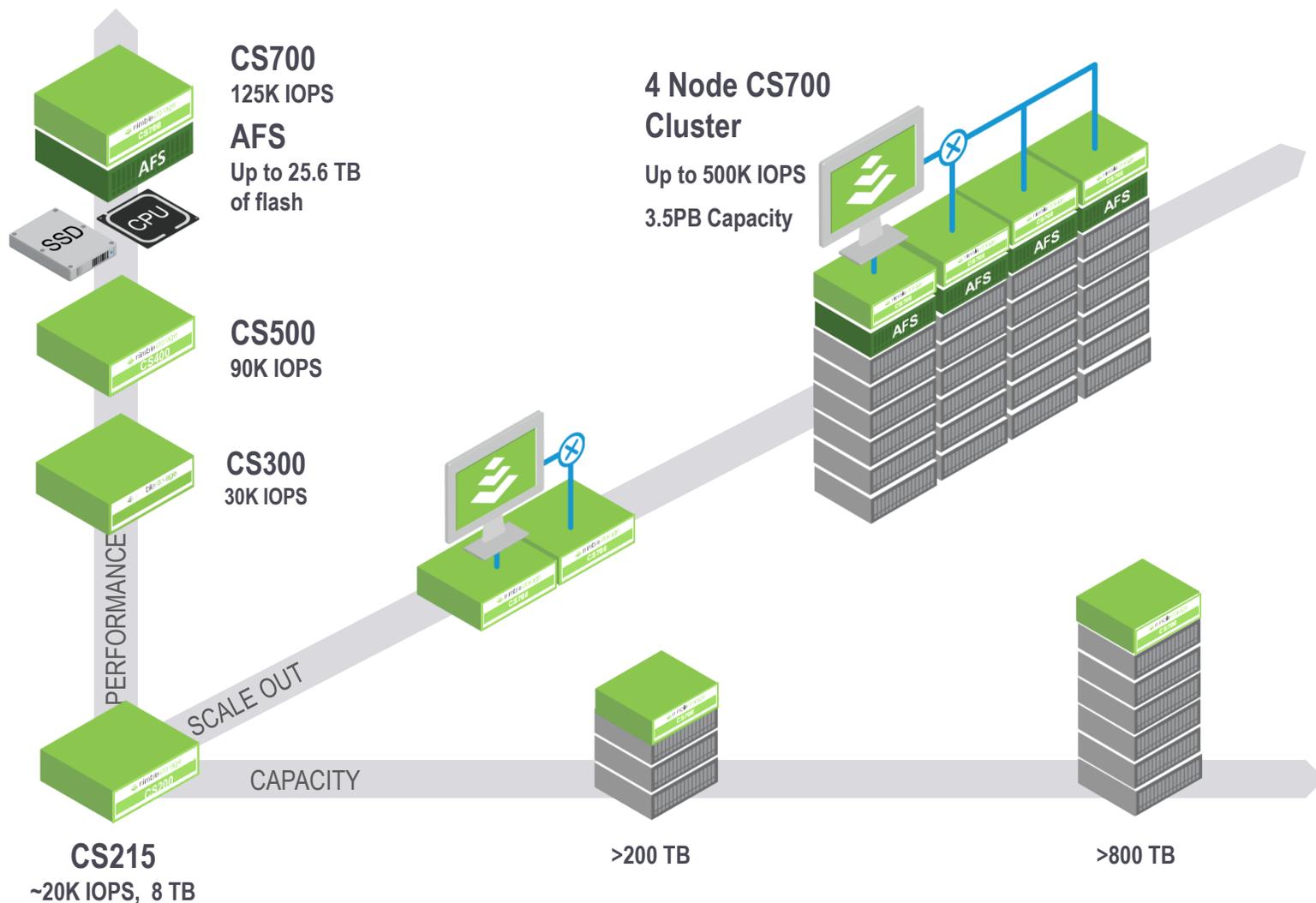


Rapid backup  
and recovery

## Proactive Wellness

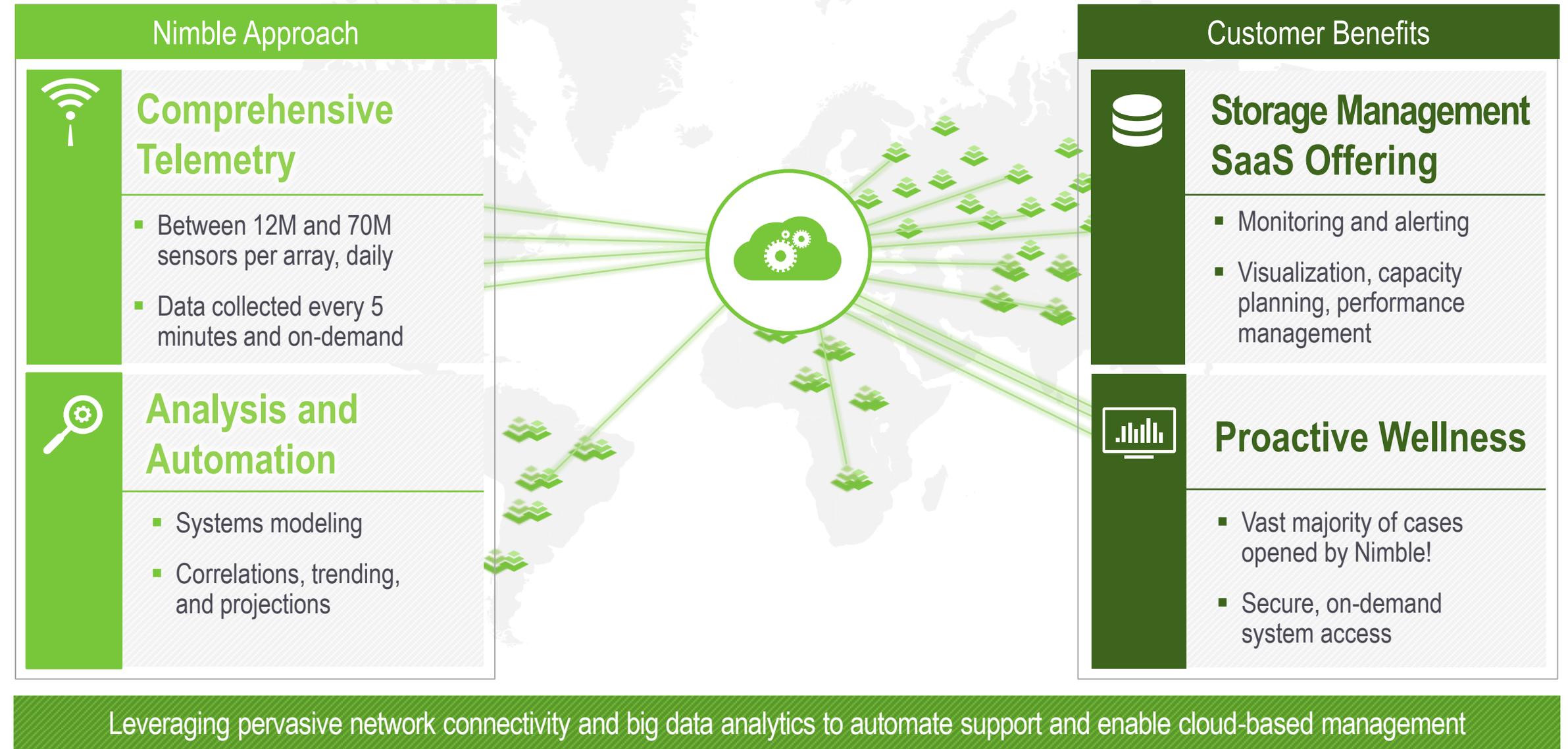


Peak system health and  
availability



- CASL allows for **simple, seamless scaling** at the lowest incremental cost
- **Scale UP**
  - » Upgrade with more CPU cores
  - » Expand cache with more SSDs
  - » Add disk expansion shelves to accommodate more data
- **Scale OUT**
  - » Scale performance and capacity beyond the limitations of a single array
  - » Cluster up to 4 Nimble arrays

Scale to Enterprise levels of Performance and Capacity



# Nimble Storage Product Family Comparison



	Value Family			Base Performance	High Performance	Extreme Performance
PRODUCT	CS210	CS215	CS235	CS300	CS500	CS700
Base Raw capacity	8TB	12TB	24TB	12TB to 72TB		
Effective Capacity	4TB to 8TB	8TB to 16TB	16TB to 32TB	8TB to 100TB		
Flash Base/Max	160GB to 640GB	320GB to 1,200GB	640GB to 1200GB	640GB to 3,200GB	1,200GB to 6,400GB	3,200GB to 6,400GB
All-Flash Shelf	N/A	N/A	N/A	Add 1 shelf (up to 25.6TB flash)		
Add-On Disk Shelf	Add 1 shelf	Add 3 shelf	Add 3 shelf	Add up to 6 expansion disk shelves		
Effective Capacity (w/ max shelves)	Up to 98TB	Up to 286TB (2x ES1-H90T+ES1-H25T)	Up to 302TB (2x ES1-H90T+ES1-H45T)	Up to 844TB (with CS500, CS700 only)		
4-node Cluster	Up to 384TB / 2.56TB Flash	Up to 1.1PB eff. capacity/ 4.8TB Flash	Up to 1.2PB eff. capacity/ 4.8TB Flash	Up to 3.3PB effective capacity (Up to 166.4TB Flash)		
TOTAL NICs	2	2	2	3		
iSCSi Protocol Options	4 x 1GbE	2x 1 GbE (on board) AND 2x Dual 1GbE or 1x Dual 10GbE SFP+ Optical or 1x Dual 10GbaseT	2x 1 GbE (on board) AND 2x Dual 1GbE or 1x Dual 10GbE SFP+ Optical or 1x Dual 10GbaseT	2x 1GbE (on board) AND up to 2x Dual 10GbaseT (optional) or 2x Dual 10GbE SFP+ (optional)		
Fiber Channel Options	N/A	N/A	1 Dual-Port 16Gb FC NICs	1 Dual-Port 16Gb FC NICs	1 or 2 Dual-Port 16Gb FC NICs	2 or 3 Dual-Port 16Gb FC NICs

Non-Recurring Capital

## Nimble Storage solution includes:

- CASL Architecture – Cache Accelerated Sequential Layout
- In-line compression (average 2x)
- Fast, efficient snapshots (10,000 per array)
- WAN-efficient replication
- Zero-copy cloning
- Thin provisioning
- Complete VMware integration – vCenter plugin, VAAI, SRM
- InfoSight cloud-based analytics with automated support
- Measured >99.999% uptime
- Professional Services Installation
- Training – instructor-led classroom training included
- 3 years of 4-hour response support (24x7 global coverage)



Storage Array Model	Performance	Network	Rack Space & Power	Flash Capacity	RAW Capacity (TB)	Usable Capacity (TB)	Total Cost
CS300	30K+ IOPs	1Gb iSCSI	3U / 500W	4TB	72TB	50-100TB	\$80,792
CS300	30K+ IOPs	1Gb iSCSI	3U / 500W	4TB	72TB	50-100TB	\$80,792
CS300	30K+ IOPs	1Gb iSCSI	6U / 900W	4TB	132TB	95-190TB	\$119,803
<b>Total Cost</b>							<b>\$281,387</b>

Non-Recurring Capital

VNXe5400 Library

Prepared For:		Quote Information:	
<b>Name:</b>	Dan Sciglimpaglia	<b>Quote #:</b>	003051
<b>Company:</b>	Town Of Fairfield	<b>Created:</b>	10/23/2015
<b>Address:</b>	Independence Hall 725 Old Post Road Fairfield, CT 06824	<b>Expires:</b>	11/20/2015
<b>Phone:</b>	2032563049	<b>Rep:</b>	Michelle Tyler
<b>Email:</b>	dsciglimpaglia@town.fairfield.ct.us	<b>Email:</b>	mtyler@netsynergy.com
		<b>Phone:</b>	(203) 261-2201

VNXe5400 Library

Hardware	Item	Price	Qty	Ext. Price
<b>EMC Vnxe5400</b> <b>cart #1007641121</b>  <b>Hardware</b> 1- VNX5400 DPE 25X2.5" DRIVE SLOTS-MIN RA 2- VNXB 15x 3.5in 6g SAS exp DAE 2- VNXB 25x 2.5in 6g SAS exp DAE 1- VNXB 25x 2.5in 6g SAS exp DAE 1-VNXB Control Station- Mini Rack 1-VNXB 2nd Control Station- Mini Rack 1-VNX5400 DME: 1 DM+FC SLIC-MINI RACK 1-VNX5400 ADD ON DM+FC SLIC-MINI RACK 11-VNX 200GB FAST VP SSD 25X2.5 DPE/DAE 1-VNX 300GB 15K VAULT 25X2.5 DPE/DAE 73- VNX 300GB 15K SAS 25X2.5 DPE/DAE 17-VNX 4TB NL SAS 15X3.5 DAE 10-2 C13 CORDS NEMA 5-15 125V 10A - NON DPE 1-VNXB CABLE KIT FOR DPE + 2 DM+1 CS 1-250V PWR CRD C13 TO 6-15P UL/CSA 1- VNX5400 Documentation Kit=IC 2- VNXB 10GBE 2 OP MODULE (TWINAX) 1- VNXB 4 PORT 8G FC IO MODULE PAIR 1- VNXB 2 PT 10GBASE-T ISCSI IO MOD PR <b>Software</b> 1-RECOVERPOINT LICENSE SOLUTION 1- RP/SE REM FOR V53 V54=IC 1- RP/SE LOC FOR V53 V54= IC 1-RP4VM REM1 for VNX STARTER PACK =IB 1-RP4VM REM2 for VNX STARTER PACK =IB 1-VPLEX VE STD STARTER PACK 5 VM =IB 68- VNXB OE PER TB HI CAPACITY 25- VNXB OE PER TB PERFORMANCE 1-VNX5400 Operating Environment 1-VNX5400 Unisphere Unified Suite=IC 1-VNX5400 Software Essentials Pack=IC <b>Installation</b> 1-INSTALL IMPLEMENT VNX ENHANCED Services 3yr ENHANCED SW SUPPORT	vnxe5400	\$158,309.00	1	\$158,309.00

**Hardware Subtotal** **\$158,309.00**

Recap	Amount
Hardware	\$158,309.00
<b>Total</b>	<b>\$158,309.00</b>

Taxes, shipping, handling and other fees may apply.  
 PLEASE DO NOT RESPOND TO THIS EMAIL AS I WILL NOT RECEIVE IT

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**VNXe5200 PS**

Prepared For:		Quote Information:	
<b>Name:</b>	Dan Sciglimpaglia	<b>Quote #:</b>	003050
<b>Company:</b>	Town Of Fairfield	<b>Created:</b>	10/23/2015
<b>Address:</b>	Independence Hall 725 Old Post Road Fairfield, CT 06824	<b>Expires:</b>	11/20/2015
<b>Phone:</b>	2032563049	<b>Rep:</b>	Michelle Tyler
<b>Email:</b>	dsciglimpaglia@town.fairfield.ct.us	<b>Email:</b>	mt Tyler@netsynergy.com
		<b>Phone:</b>	(203) 261-2201

Hardware	Item	Price	Qty	Ext. Price
<b>EMC VNXe5200</b> <b>Cart #1007641103</b>  <b>Hardware</b> 1- VNXe5200 DPE 25x2.5in drive with 25x 300gb 15k sas 2- VNXB 15x 3.5in 6g SAS exp DAE 1- VNXB 25x 2.5in 6g SAS exp DAE 1-VNXB Control Station- Mini Rack 1-VNXB 2nd Control Station- Mini Rack 1-VNX5200 ADD ON DM+FC Slice-Mini Rack 1-VNX5200 DME: 1 DM+FC SLIC-MINI RACK 21- VNX 300GB 15K SAS 25X2.5 DPE/DAE 17-VNX 3TB NL SAS 15X3.5 DAE 8-2 C13 CORDS NEMA 5-15 125V 10A - NON DPE 1-VNXB CABLE KIT FOR DPE + 2 DM+1 CS 1-250V PWR CRD C13 TO 6-15P UL/CSA 1- VNX5200 Documentation Kit=IC 2- VNXB 10GBE 2 OP MODULE (TWINAX) 1- VNXB 4 PORT 8G FC IO MODULE PAIR 1- VNXB 2 PT 10GBASE-T ISCSI IO MOD PR 1-VNX5200 Operating Environment 1-VNX5200 Unisphere Unified Suite=IC 1-VNX5200 Software Essentials Pack=IC <b>Installation</b> 1-INSTALL IMPLEMENT VNX ENHANCED Services 3yr ENHANCED SW SUPPORT	vnxe5200	\$85,694.00	1	\$85,694.00
<b>Hardware Subtotal</b>				<b>\$85,694.00</b>

Recap	Amount
Hardware	\$85,694.00
<b>Total</b>	<b>\$85,694.00</b>

Taxes, shipping, handling and other fees may apply.  
 PLEASE DO NOT RESPOND TO THIS EMAIL AS I WILL NOT RECEIVE IT

VNXe5200 PS

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**VNXe5200 TH**

Prepared For:		Quote Information:	
<b>Name:</b>	Dan Sciglimpaglia	<b>Quote #:</b>	003049
<b>Company:</b>	Town Of Fairfield	<b>Created:</b>	10/23/2015
<b>Address:</b>	Independence Hall 725 Old Post Road Fairfield, CT 06824	<b>Expires:</b>	11/20/2015
<b>Phone:</b>	2032563049	<b>Rep:</b>	Michelle Tyler
<b>Email:</b>	dsciglimpaglia@town.fairfield.ct.us	<b>Email:</b>	mt Tyler@netsynergy.com
		<b>Phone:</b>	(203) 261-2201

Hardware	Item	Price	Qty	Ext. Price
<b>EMC VNXe5200</b> <b>cart #1007640857</b>  <b>Hardware</b> 1- VNXe5200 DPE 25x2.5in drive with 25x 300gb 15k sas 2- VNXB 15x 3.5in 6g SAS exp DAE 1- VNXB 25x 2.5in 6g SAS exp DAE 1-VNXB Control Station- Mini Rack 1-VNXB 2nd Control Station- Mini Rack 1-VNX5200 ADD ON DM+FC Slice-Mini Rack 1-VNX5200 DME: 1 DM+FC SLIC-MINI RACK 21- VNX 300GB 15K SAS 25X2.5 DPE/DAE 17-VNX 3TB NL SAS 15X3.5 DAE 8-2 C13 CORDS NEMA 5-15 125V 10A - NON DPE 1-VNXB CABLE KIT FOR DPE + 2 DM+1 CS 1-250V PWR CRD C13 TO 6-15P UL/CSA 1- VNX5200 Documentation Kit=IC 2- VNXB 10GBE 2 OP MODULE (TWINAX) 1- VNXB 4 PORT 8G FC IO MODULE PAIR 1- VNXB 2 PT 10GBASE-T ISCSI IO MOD PR <b>Software</b> 1-RECOVERPOINT LICENSE SOLUTION 1- RP/SE REM FOR V51 V52= IC 1-RP/SE LOC FOR V51 V52= IC 1-RP4VM REM1 for VNX STARTER PACK =IB 1-RP4VM REM2 for VNX STARTER PACK =IB 1-VPLEX VE STD STARTER PACK 5 VM =IB 51- VNXB OE PER TB HI CAPACITY 7- VNXB OE PER TB PERFORMANCE 1-VNX5200 Operating Environment 1-VNX5200 Unisphere Unified Suite=IC 1-VNX5200 Software Essentials Pack=IC <b>Installation</b> 1-INSTALL IMPLEMENT VNX ENHANCED <b>Services</b> 3yr ENHANCED SW SUPPORT	vnxe5200	\$85,694.00	1	\$85,694.00

**Hardware Subtotal**

**\$85,694.00**



Network Synergy  
126 Monroe Turnpike  
Trumbull, CT 06611  
P: (203) 261-2201  
W: www.netsynergy.com

VNXe5200 TH

Recap	Amount
Hardware	\$85,694.00
<b>Total</b>	<b>\$85,694.00</b>

Taxes, shipping, handling and other fees may apply.  
PLEASE DO NOT RESPOND TO THIS EMAIL AS I WILL NOT RECEIVE IT

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



## Fairfield Fire Department

140 Reef Road  
Fairfield, CT 06824-5997

Administrative Office

Office (203) 254-4713  
Office (203) 254-4720  
Fax (203) 254-4724

### **Pumper (Quint Type) - \$900,000**

---

#### **1. Background-**

In accordance with the Fairfield Fire Department apparatus replacement program, the department is requesting the replacement of a LSN 11, a 2004 Pierce pumper type fire truck. A pumper type fire truck carries water, hose and personnel to the scene of a fire and is the workhorse of the fire service. At any one time, there are a minimum of five (5) pumper trucks in service in the Town of Fairfield positioned strategically in each of the department's five (5) fire stations. Based on the manpower distribution and the standard tactical capabilities/limitations, a typical building fire requires the predetermined response of 4 pumper trucks along with 1 ladder truck, 1 rescue truck and a shift commander to ensure adequate personnel and equipment are on scene to protect the public and conduct safe operations.

Similar to the pumper truck, the newer style "Quint" performs the same functions as a standard pumper truck but adds rescue capabilities with a 75' aerial ladder on the top of the truck along with some additional ladders and equipment. The uniqueness of a quint is that it has a shorter aerial ladder, lower overall vehicle height and weight, smaller size, and costs less cost than a traditional aerial ladder (approximately \$1,200,000). This Quint type pumper will replace a pumper truck in the replacement schedule but will also support ladder operations at emergency scenes.

Fire apparatus are specialized vehicles that are designed and constructed for specific firefighting functions. The construction of fire apparatus is more similar to building a house than that of a vehicle. All fire apparatus must meet rigid national safety standards and are not purchased as a standard item due to the many local variables including climate, hose threads, and local department needs. The reliability of fire apparatus and the installed equipment directly impacts the fire department's ability to accomplish its mission of saving lives and property.

The need for replacement of this vehicle and the entire fire apparatus replacement program was presented to the BOS, BOF and RTM committees during the 2014/15 budget cycle. As noted in the department's apparatus replacement program, the replacement of this apparatus is on schedule.

#### **2. Purpose and Justification-**

The current 12 year old vehicle is assigned to the Greenfield Hill Fire station, has 87,867 miles, over 6,758 engine operating hours and more than 546.3 hours of pump operation. Differing from standard vehicles, fire apparatus often operate at emergency scenes for many hours on end under less than ideal conditions. Truck manufacturers have developed a calculation based on 1 hour = 50 road miles to account for this type of wear and tear. Based on this formula, Engine 5's engine hours are the equivalent of 337,900 road miles and takes into account that, unlike over the road trucks, fire apparatus spend the vast amount of operating time making relatively short responses with most time in stationary or pump operation. In 2015, the truck was out of service for more than 50 separate repairs of varying

severity due to mechanical breakdowns and preventative maintenance. The apparatus has been involved in a number of minor accidents in its life span and received significant burn damage to the cab at the scene of a residential fire and like most apparatus have had numerous parts and cosmetic repairs throughout the course of its service life.

Being 12 years old, the current Engine 5 is out of compliance with the most current NFPA apparatus standards however is equipped with critical safety features such as anti-lock brakes but is lacking passenger compartment airbags. Fire apparatus are custom designed vehicles based on very specific criteria. As such, the manufacturing process takes up to 1 year from the time the bid is awarded. This delay requires planning and adherence to the replacement schedule to avoid apparatus shortages.

This request is approximately \$280,000 higher than was projected (\$620,000) in the department's apparatus replacement program in 2014. The primary reason for this increase is due to the earlier than anticipated decommissioning of Ladder 1's aerial device and the change of vehicle type from a pumper to a quint type apparatus to compensate for this loss. Ladder 1 is in the process of being replaced by a non-ladder equipped apparatus due in March 2016 under the premise that Ladder 1 would serve as a reserve apparatus until the replacement of Ladder 2. In November 2015, Ladder 1 failed its annual aerial device inspection and estimates for repair exceeded \$100,000. Based on the age of the truck (>20 years old) and with rising costs anticipated over the next 5 years of its reserve service life, the decision was made to not repair the ladder and remove it from service. As a result, only a single ladder apparatus remains available in town to protect the many high rise planned development and dormitory buildings as well as 4 story homes that now fill our coastline following Super Storm Sandy. This creates a severe coverage gap in town whenever the ladder truck requires preventative maintenance or suffers a mechanical breakdown as it did over the Christmas holiday and required trucks to respond from Westport and Bridgeport into Fairfield.

The change from a pumper to a quint type pumper is becoming a common trend in local fire departments. Stratford, Milford, Norwalk and Stamford have all purchased lower cost quint apparatus to supplement their fleets and increase aerial ladder capabilities, especially in beach front areas that require maneuverability. Quints do not eliminate the need for a 100' aerial device. However, when used in combination with a traditional ladder, it does add capabilities and supports the department's mission while saving money on the full purchase price of a traditional ladder.

### **3. Detailed Description of Proposal-**

The need for apparatus replacement is well documented in the current department apparatus replacement program which was distributed to all members in prior budget cycles and is available upon requested. Based on the replacement schedule, the department's apparatus design committee has begun developing basic specifications for a replacement pumper to meet the long term needs of the organization and is incorporating the quint specifications.

This proposal is to modify the standard Fairfield pumper design and purchase a replacement Class A, 1,250 GPM fire pumper with a 75' aerial device mounted on top. To accommodate the size of the truck, apparatus will be reallocated throughout the town to best serve the community and balance the mileage.

Cost Estimate, including design, construction and ancillary equipment: \$900,000

### **4. Reliability of Cost Estimate-**

On a scale of 1 to 10, the reliability of this estimate is a 9.0.

## **5. Increased Efficiency and Productivity-**

Our proposed pumper will be in compliance with current EPA requirements for pollution and fuel efficiency. The truck will be designed so as not to require additional staffing beyond the 3 members currently assigned and will accommodate up to four in the event of significant storm or natural disaster. The quint type pumper is similar to a Swiss army knife in concept in that it adds options and operational capabilities that are not available currently due to the loss of Ladder 1.

The company that manufactured the current engine 5 remains in business as a sole source provider. Due to the age of the truck and the custom nature of fire apparatus, replacement parts are increasingly more difficult to locate. As a result, apparatus down time and repair hours are higher than that of a new apparatus. All new apparatus purchases are specified with a 5 year bumper to bumper warranty to reduce potential costs of major component failures and freeing up maintenance personnel.

## **6. Additional Long Range Costs-**

There will initially be some reduction in maintenance costs, as this will be a new piece of equipment. Sticking to the apparatus replacement program allows for a more balanced and predictable bonding cycle due to the minimization of multiple apparatus purchases in a single budget.

Due to the existing limitations of the size of the truck bay at the Southport fire station, the department continues to explore options including but not limited to modification of facilities, apparatus rotations, and relocation. Other future expenses include the possible costs of building modification to accommodate standard apparatus.

## **7. Additional Use or Demand-**

As previously stated, this apparatus will have additional rescue capabilities not currently available on standard fire pumpers. The addition of a 75' aerial device will allow it to operate as a ladder truck, a pumper truck or possibly both simultaneously depending on the situation. The truck will be constructed to low height specifications (Truck height <10'5") to allow it to respond under railroad viaducts (North Benson Road height - 10'7") without having to drive around and delay response.

## **8. Alternatives to This Request-**

This request represents the best alternative for the department. A traditional ladder truck would cost approximately \$300,000 more than this request and would not have a pump, water or hose as the quint does. The quint is a specialized apparatus that combines many operational features of a ladder and pumper into one truck. Due to the mechanical failure of Ladder 1 much earlier than anticipated, this type of truck is needed at this time and can be fast tracked once approved.

## **9. Safety-**

As Stated under justification, the current Engine 5 is out of compliance with NFPA standards for fire apparatus. Requirements for new apparatus include passenger air bags, improved seat belt systems, additional safety marking and several structural changes to the design and construction of this equipment. The current engine 5 remains a safe apparatus and will serve the department well over the next 12 years as a reserve truck.

The quint type truck will greatly enhance field operations and make the fire ground safer for both the firefighters and civilians alike. This truck will add another tool to the fire officer's tool box and due to its smaller design and single axle maneuverability and lighter weight, it will allow the department to operate effectively and improve fire ground survivability.

## **10. Environmental Considerations-**

New diesel engines must comply with significantly more stringent rules governing exhaust emissions than the current in service pumper. These engines burn cleaner and hotter through the use of a diesel exhaust fluid and high temp run cycles to incinerate toxins more effectively. The reduction of black diesel fumes near and the around the truck is the most significant observable improvement.

## **11. Insurance-** N/A

## **12. Financing-**

Project bonded as part of non-recurring capital budget for 2016

## **13. Other Considerations-**

The loss of Ladder 1's 100' aerial device has a significant impact on the department's ability to protect the citizens of Fairfield and specifically the high risk populations of the college dormitories, affordable housing projects, condominiums and 4 story flood zone homes. Following the decommissioning of Ladder 1, Ladder 2 suffered a mechanical failure and was out of service waiting for replacement parts to ship over a 3 week period. With no local ladder service available in Fairfield, a ladder truck was called from the Westport Fire Department (over 9 miles/14 minutes away) to support our operations. Fortunately, no one was hurt but it raised this issue to become a high priority for the department to address. This apparatus will provide great value to the Town of Fairfield and its citizens for many years to come.

The apparatus replacement program is scheduled for re-evaluation due to department experience and other variables such as caustic road treatments. Recent information from State DOT indicated truck replacement schedules are being reduced from 12 years to 8 years due to the impact of road treatments on components. The department continues to explore methods to extend our apparatus service life and get the best value for the taxpayers of Fairfield.

## **14. Approvals-**

Board of Selectmen, Board of Finance, RTM

# Fairfield Board of Education

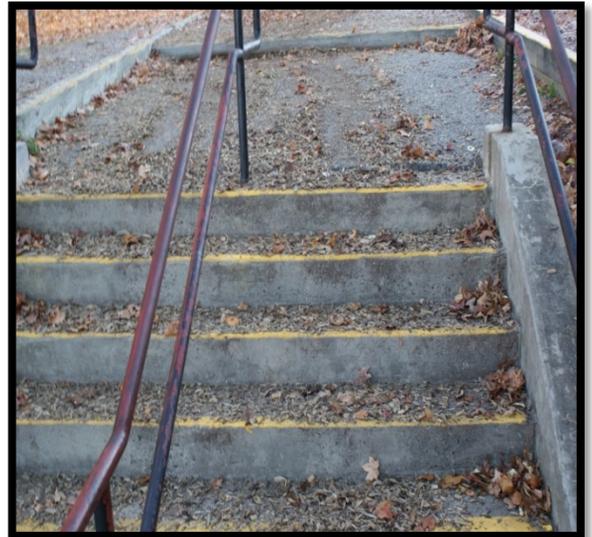
## Proposed

### Capital Non-Recurring Projects

#### 2016 - 2017



Central Office IT Server Room renovation



Dwight School unsafe stairs up to playground



Fairfield Ludlow High School boilers



Systemwide Multimedia CAT 6 low voltage

December 8, 2015

Dear Board of Education Members:

This booklet provides an overview and backup material for all of our proposed 2016-2017 Capital Non-Recurring Projects. The format is based on the "14 points" document used in Fairfield and from many previous public meetings where this information has often been requested.

Two of these projects, the Dwight Elementary School playground retaining wall and stairs, and the Fairfield Ludlowe High School boilers, have long been part of the long-term facilities planning updates we have provided to the Board and the Town over the past five years. The third, Central Office Administration Information Technology server room project, has increasingly become a problem with very old equipment, HVAC equipment issues and fire suppression equipment issues. The fourth project is for the upgrading of our security infrastructure (phase two) in all schools in alignment with the Fairfield Police Department's study of our buildings. The fifth and final project in this funding request is for the Systemwide Information Technology upgrades for the multimedia projectors at the high schools and middle schools that need upgrades for CAT 6 low voltage wiring and electrical power quad outlets.

Each project request includes:

1. Justification and background information.
2. A cost estimate that brings together information from previous projects, verbal quotations, and/or written proposals.
3. Photographs of projects in existing conditions and, in most cases, photographs showing new conditions from previous projects to provide a side-by-side comparison.

We hope you find this information helpful and we are confident it will answer many of your questions as we begin the budget discussions. Thank you for your continued support.

Sincerely,



David G. Title

**Fairfield Public Schools  
2016-2017  
Capital Non-Recurring Projects**

**Table of Contents**

<u>Location</u>	<u>Project</u>	<u>Estimated Cost</u>	<u>Page</u>
Central Office	IT server room renovation project	\$ 200,000	1
Dwight Elementary	Playground retaining wall and stairs	100,000	7
Fairfield Ludlowe High	Replace two 1971 boilers	620,000	15
Systemwide	Security infrastructure	2,020,692	21
Systemwide	CAT 6 low voltage and electrical project	230,000	29
	<b>Total</b>	<b>\$ 3,170,692</b>	

## **Central Office Administration**

### **Information Technology Server Room Renovation**

**\$ 200,000**

**Background:** The information technology server room is located at 501 Kings Highway East and is a part of the central office administration. This server room is the central hub for the school system computer network or wide area network. It supports major functions of the district including email and Infinite Campus. This server room is original to the renovation of 2002. The current configuration of the space is now 13 years old and is overcrowded and the HVAC system and fire suppression system are out of compliance with regulations. This request is for funding the renovation of the space, the installation of new air-conditioning system, and the installation of a new fire suppression system, relocation of equipment as necessary to complete the task to ensure all systems are rated and specified for an information technology server room.

**Purpose & Justification:** The air conditioning system is undersized for the equipment and scope of the current configuration within the server room. In the past year, the air conditioning system has failed on multiple occasions, forcing shut down of critical systems, including access to the internet for the schools.

**Detailed Description:** This expenditure would cover the total costs for the relocation of the existing phone equipment, demolition and removal of an existing wall, demolition and removal of the old air conditioning systems, demolition and removal of the existing fire suppression system, and the installation of new air conditioning and fire suppression systems sized appropriate for the space.

**Estimated Cost:** The cost of this funding request is \$200,000. This number is based on estimates provided by vanZelm Engineers, a professional licensed engineering firm.

**Long Range Costs:** New air conditioning equipment and new fire suppression equipment will reduce maintenance costs versus the old equipment as well as produce energy savings through the use of higher efficiency units. We anticipate the life of this upgrade to be 25 years on the air conditioning equipment and 12 years on the fire suppression equipment. Service agreement for this equipment will continue as part of the preventative maintenance program for this server room.

**Demand on Existing Facilities:** This project would reduce the loss of instructional and administrative time and productivity by reducing the frequency of air conditioning failures necessitating the shutdown of critical information technology systems.

**Security, Safety and Loss Control:** This project would enhance safety and loss control by drastically reducing the frequency of failure to the server room. It will greatly reduce the risk associated with excessive heat to expensive server and switch equipment.

**Environmental Considerations:** This project would greatly reduce greenhouse gases and emissions released into the environment with newer energy efficient equipment. Clean running equipment would improve the conditions for the staff and users located around this server room.

Funding, Financing & SDE Reimbursement: This project would not proceed without funding approval. There are no State or Federal regulations that require this project to be undertaken. This project is not eligible for reimbursement through the State Department of Education, Bureau of School Facilities.

Schedule, Phasing & Timing: Approval of this funding will allow completion of the work as soon as possible to avert another equipment failure.

Other Considerations: The work will be bid out by the Town Purchasing Department and will be performed by outside contractors.

Alternates to the Request: The alternate to this request is to do nothing. This alternative will delay this needed replacement and further delay other similar projects scheduled in the BOE future planning.

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# Central Office Administration

Information Technology Renovation Project

\$ 200,000

## Details

Licensed contractor to provide labor and materials Prepared by: van Zelm Engineers. Inc.

### Breakdown:

- Shut down existing systems and provide I.T. Server Equipment protection within the server room in preparation for all construction work.
- Demolition of existing mechanical air conditioning systems within the server room and on the rooftop.
- Demolition of existing fire suppression system.
- Demolition of existing wall, door and frame, and ceiling system.
- Relocation of existing telephone system.
- Furnish and install new Liebert air conditioning system.
- Furnish and install new Stuart White fire suppression system.
- Provide patching and matching of vinyl floor tile.
- Provide patching and matching of drywall wall system.
- Furnish and install new lighting with appropriate switches for new room configuration.
- Furnish and install new acoustical ceiling system.
- Furnish and install new painting of room.
- Provide new electrical systems to meet the needs and specifications of new equipment in the server room and on the rooftop.
- Provide new controls, control wiring, and special sequencing for all new equipment.
- Roofing work to be coordinated with a licensed roofing contractor for any and all penetrations.
- Start-up and testing of equipment.
- One year warranty.
- Permits as required.

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**Total**

**\$ 200,000**

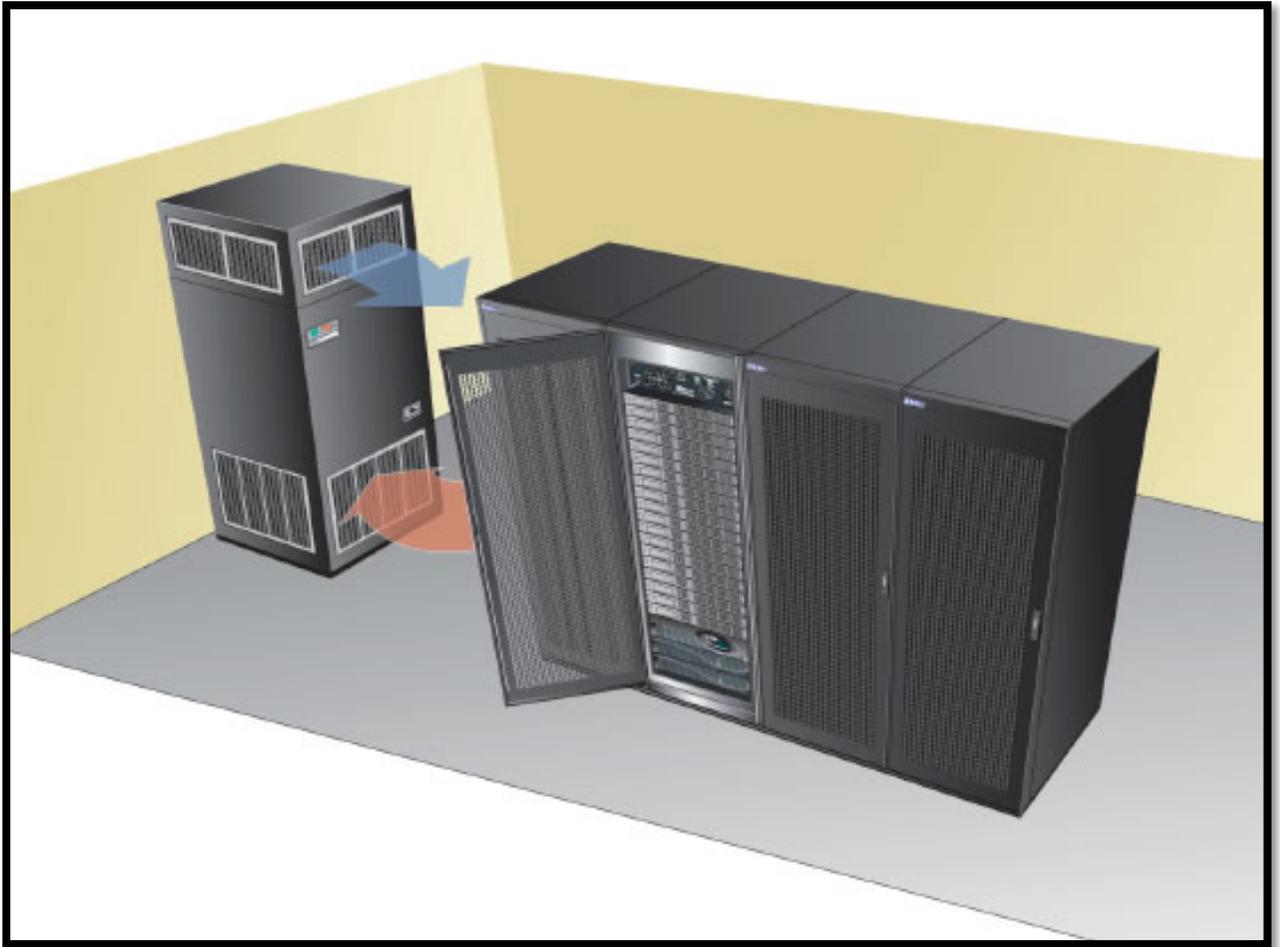


Existing information technology server room depicting cramped conditions



Temporary cooling unit

Non-Recurring Capital



New I.T. server room with Liebert cooling system

## **Dwight Elementary School**

### **Playground Retaining Wall and Stairs**

**\$ 100,000**

**Background:** The existing playground is in excellent condition. The area leading up to the playground is in need of repair/replacement and has become a safety issue. Specifically, the wood timber stairs filled with wood chips near the top of the stair section are not appropriate for small children and have become a safety issue. The retaining wall needs to be expanded across the right side of the playground barrier to keep the wood fiber chips contained within the playground fall zone for the children. The washout occurring on a regular basis is making both of these items a safety issue. This request is for funding the extension of the retaining wall system and the installation of new concrete stairs.

**Purpose & Justification:** The condition of the wood timber stairs filled with wood chips near the top of the playground stair section is deteriorating and is not keeping the walk zone safe for students or staff to access the playground area. It is also a concern when leaving the playground area. The old design of wood timbers filled with wood fiber chips is no longer appropriate for walk zones while climbing up and down stairs. The retaining wall extension will also help with the wash out of wood fiber chips down the hill and will keep the area contained for the required fall zone. Renovations of this type will prevent complete failure of the fall zone system and the injuries to students and/or staff who use this playground on a daily basis.

**Detailed Description:** This expenditure would cover the total cost of the project for both areas. This would include all labor and material, soil testing, monitoring, the cutting and removal of the old wood stair and wood fiber chips system and the excavation for the retaining wall work. These funds would also cover design, bidding and construction administration costs for a professional licensed architect as well as a contingency for unforeseen conditions that might be uncovered during the construction activities.

**Estimated Cost:** The cost of this funding request is \$100,000. This number is based on similar replacement projects undertaken in the immediate area of the Town of Fairfield and estimates provided by the professional licensed architect and a licensed contractor.

**Long Range Costs:** This retaining wall work and new concrete stair system is expected to last 30 years. Long-range costs would only relate to general preventative maintenance.

**Demand on Existing Facilities:** This project would reduce the maintenance costs due to the new system working better than the existing system, fewer problems with wood fiber chips washing out and needing to be replenished and, more importantly, will reduce slips and falls by students and staff walking up and down the stairs.

Security, Safety and Loss Control: This project would enhance safety and loss control by drastically reducing the risk of injury to students and staff using the playground and access way to the playground.

Environmental Considerations: Not applicable.

Funding, Financing & SDE Reimbursement: This project would not proceed without funding approval. There are no State or Federal regulations that require this project to be undertaken. This project is not eligible for reimbursement through the State Department of Education, Bureau of School Facilities.

Schedule, Phasing & Timing: The schedule is to have all this work done in the summer of 2016.

Other Considerations: The work will be bid out by the Town Purchasing Department and will be performed by outside contractors.

Alternates to the Request: The alternate to this request is to do nothing. This alternative will delay this needed replacement and further delay other similar projects scheduled in the BOE future planning. This could increase the risk of injury to students and staff related to the walk zone and fall zone requirements per local and state codes.

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# Dwight Elementary School

**Playground Retaining Wall and Stairs**

**\$ 100,000**

## Details

Licensed contractor to provide labor and materials

Prepared by: Philip Cerrone, Architect and Frank Capasso and Son's Inc., Contractor

### **Breakdown:**

#### **Stairs**

Demolish and remove existing wood timber stair sections.

Remove and relocate all existing wood fiber chips within the wood timber stair sections and evenly spread them around the existing playground fall zones.

Dig out existing grade and prepare area for wood forms to pour new concrete stair sections per drawings and specifications.

Provide new sand finish and rough troweling for gripping.

Provide proper markings on stair tread nosings for safety.

#### **Retaining Wall**

Excavate and remove existing grade to prepare area for new concrete footings and new stone work retaining wall.

Remove and relocate all existing wood fiber chips within the wood timber stair sections and evenly spread them around the existing playground fall zones.

Dig out existing grade and prepare area for wood forms to pour new concrete footing section per drawings and specifications to accept a new stone work retaining wall.

---

**Total**

**\$ 100,000**



Dwight Elementary School playground old wood framed stairs filled with wood fiber chips



Dwight Elementary School playground wood fiber chips washing down stairs causing unsafe conditions

Non-Recurring Capital



New concrete stairs at Fairfield Ludlowe High School



Washed out area at Dwight Elementary School playground



Non-Recurring Capital



New 2015 retaining wall at RLMS

## **Fairfield Ludlowe High School**

### **Boiler Replacement**

**\$ 620,000**

Background: Fairfield Ludlowe High School houses three boilers of which two are original from 1971 and are at the end of their useful lives. These boilers are dual fuel and produce high steam to heat the school building. The boilers are in need of replacement due to numerous repairs and fixes and the number of hours and run time over the past 45 years. This request is for funding the replacement of the two existing 1971 boilers with the installation of two new high-efficiency boilers with dual fuel capabilities.

Purpose & Justification: The condition of the existing boilers is poor and continues to require high maintenance on a regular basis. New boilers would provide a much higher efficiency rating for the school and prevent emergency boiler failure during a peak cold weather period.

Detailed Description: This expenditure would cover the total costs for demolition and removal of old boilers, asbestos abatement, new burners, associated piping and peripheral components and purchase and installation of two new boilers.

Estimated Cost: The cost of this funding request is \$620,000. This number is based on similar boiler replacement projects undertaken in the system and estimates provided by licensed contractors. This includes professional engineering specifications and other associated work for obtaining bids. This project funding request also includes the cost for crane services to lift the new boilers over the school building and into the courtyard to access the boiler room.

Long Range Costs: Boiler replacements will reduce maintenance costs on the old equipment as well as produce energy savings through the use of higher efficiency units. We anticipate the life of this upgrade to be 30+ years. Energy consumption based on prior installations indicates a 20-30% decrease after replacement. At today's fuel prices, this equates to an annual savings of \$5,400-8,100.

Demand on Existing Facilities: This project would reduce the maintenance costs of older boiler repairs and increase energy efficiency in the school building.

Security, Safety and Loss Control: This project would enhance safety and loss control by drastically reducing the risk of boiler failure during a peak cold weather period.

Environmental Considerations: This project would greatly reduce the hazardous materials (asbestos) in the boiler room area. Clean-burning boilers would improve emissions from the boilers into the air.

Funding, Financing & SDE Reimbursement: This project would not proceed without funding approval. There are no State or Federal regulations that require this project to be undertaken. This project is not eligible for reimbursement through the State Department of Education, Bureau of School Facilities.

Schedule, Phasing & Timing: Approval of this funding will allow completion of the work before the next heating season.

Other Considerations: The work will be bid out by the Town Purchasing Department and will be performed by outside licensed contractors.

Alternates to the Request: The alternate to this request is to do nothing. This alternative will delay this needed replacement and further delay other similar projects scheduled in the BOE future planning and increase the risk of a major boiler failure during a peak cold weather period.

# Fairfield Ludlowe High School

**Boiler Replacement**

**\$ 620,000**

## Details

Licensed contractor to provide labor and materials

Prepared by: Connecticut Combustion Company

### **Breakdown:**

Disconnect existing piping, electrical and breaching from existing flue.

Remove existing Power Flame burner from boilers and all related piping.

Cut up and remove from premises existing boilers.

Furnish and install two (2) new Cleaver Brooks or Easco steam generating boilers with dual fuel fired burners.

Mount boilers on new structural steel beam supports.

Boiler to be equipped with the following:

- a. new steam controls
- b. two low water cut-off valves
- c. relief valves
- d. man hole covers
- e. six hand hole covers
- f. gauge glass with tricocks
- g. 12 gauge boiler tubes
- h. burner mounting plate
- I. saddles which boiler will rest on to match height of other boilers

Furnish and install two (2) 12" Metal-Fab PIC boiler flues.

Furnish and install two (2) Power Flame burners onto new boilers.

Complete refractory work for front wall of burner mounting plate.

Complete tie-in of oil and gas piping from existing lines into new burners, mounted onto the new boilers.

Install new safety and operating controls for the boilers including piping and wiring.

Wiring will be tied into existing service in building.

Pipe new relief valves to 6" above floor.

Pipe in gauge glass and water columns.

Fabricate and install breeching transition pieces to tie new boilers into existing breechings.

Furnish, weld and install supply and return piping tying into existing lines.

Pipe in feed water lines tying into existing service.

Boil out boiler prior to putting into service.

Start- up burners and set up.

This installation is a total turn-key job.  
Pricing is based on the project being prevailing wage.  
Crane and rigging of equipment from parking lot into courtyard.  
One year warranty.  
Permits as required.  
Asbestos abatement of mechanical room, if needed.

---

**Total**

**\$ 620,000**



FLHS 1971 boilers showing age, rusting and leaks





FWHS new 2015 Easco boiler



Non-Recurring Capital

## **Proposed Security Infrastructure Upgrades**

**Systemwide**

**\$ 2,020,692**

Background: Following the Sandy Hook Elementary School tragedy, the Fairfield Police Department along with the Central Office Administration conducted a security assessment of all the Fairfield Public School buildings. Based on this assessment the Fairfield Police Department recommended several improvements to the Fairfield Public Schools' security infrastructure. Some of the low cost items on this list have been implemented with operating budget funds over the past two years.

Purpose & Justification: The purpose of this funding request is to make recommended security infrastructure improvements as recommended by the Fairfield Police Department. These recommended improvements will enhance the security and safety at our facilities for our students and staff. The scope of this work is too great to be handled within the BOE operating budget.

Detailed Description: The expenditure would cover the total costs for multiple security improvements to our facilities. These include security film on windows, camera system improvements, upgrades to public address systems, protective secure fencing, door hardware upgrades, visitor management systems, and other operational security improvements as detailed in the accompanying spreadsheet. Details about these specific improvements cannot be shared in public upon the advice of the Fairfield Police Department.

Estimated Cost: The cost of this funding request is \$2,020,692. Estimates were provided by multiple professional licensed contractors/vendors for the different projects in this funding request.

Long Range Costs: Most of the projects listed do not have added long-term costs associated with their implementation. However, two of the projects (RAPTOR and BeSafe) would incur yearly licensing renewal fees. These fees would be accounted for in the Fairfield Public Schools "Security Account" line as an operational expense. The protective secure fencing at the portable classroom locations and annex building connectors will require yearly maintenance and repairs until the portables are removed. These fees would be accounted for in the Fairfield Public Schools "Building Envelope" line as a preventative maintenance expense. If the school system's security account is maintained at current levels, no increase will be needed to maintain this equipment on an annual basis.

Demand on Existing Facilities: These projects will not add any additional demand to the existing facilities.

Security, Safety and Loss Control: This project would greatly enhance security, safety and loss control by improving monitoring capabilities, hardening of our facilities against unauthorized entry, and enhancing communications during emergencies.

Environmental Considerations: None

Funding, Financing & SDE Reimbursement: These projects would not proceed without funding approval. There are no State or Federal regulations that require this project to be undertaken. This project is not eligible for reimbursement through the State Department of Education, Bureau of School Facilities. Grant funding through the CT Department of Emergency Management and Homeland Security “School Security Competitive Grant Program” (SSCGP) was applied for but not received in 2014. Future grants may be available to offset some of these costs.

Schedule, Phasing & Timing: Approval of this funding will allow the implementation of these projects over the next two years as identified in the Fairfield Public Schools Facilities Plan “Waterfall Schedule” -- half in 2015-2016 and half in 2016-2017.

Other Considerations: Town of Fairfield Purchasing Department will award the work per the guidelines and will be performed by outside contractors/vendors.

Alternates to the Request: The alternate to this request is to do nothing. This alternative will require continuing with the present security and safety infrastructure and its limitations.

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**PROPOSED SECURITY INFRASTRUCTURE UPGRADES**

**YEAR 2 REQUEST**

Additional Intrusion Panel Installation (additional to the 2015-16 funding previously approved)	\$500,000
Migration to IP based Security Camera System including interior and exterior cameras for full coverage (additional to the 2015-16 funding previously approved)	\$1,352,677
Bollards at Entries (deferred from 2015-16 funding request)	\$78,015
Door Hardware Upgrades for additional 'Safe Rooms' (deferred from 2015-16 funding request)	\$90,000

**TOTAL BOND REQUEST** **\$2,020,692**

# New England Glass Armor Security Panels Protects schools from Intrusion Vandalism Theft



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- New England Glass Armor is an affordable alternative for school safety
- Be safe, sound and secure at school



Non-Recurring Capital

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### NEWS & UPDATES

Software to keep track of Fort Lee High School visitors 5/1/2015

ID required to enter Hortonville schools 4/27/2015

SAFER CHECK-IN: Clarksville Schools gets donation for new security system 4/13/2015

[MORE NEWS AND UPDATES](#)

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### AWARDS



Voted one of the top 100 products of 2011 by District Administration Magazine.

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# Security Solutions Division

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One IP camera can do the job of 6-20 analog cameras.
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Video streams require authentication, meaning you control exactly who can see what in your system.
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- ✓ **Lower Total Cost**  
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1404-03

Non-Recurring Capital

## **Systemwide**

### **Information Technology and Electrical Upgrades**

**\$ 230,000**

**Background:** The existing multimedia projectors at the schools, installed before 2012, require data cabling to connect with a centralized management server located at the central office. This system allows the district personnel to monitor projector performance; identify bulbs and other consumables that are in need of replacement and allow remote control of the projectors to enable technicians to adjust projectors without the need to visit the classroom. In addition, the district has been migrating to wireless projection using various computing devices both by teachers and students to share and discuss work. In the schools with older projection installations, only two outlets were installed. In order to support the wireless projection devices, which also require a power source, additional outlets are required to put those rooms on par with other classrooms with more recent installation.

**Purpose & Justification:** All teachers and students need access to technology in their classrooms to facilitate instruction and delivery of curriculum. Remote management of the projectors maximizes the efficiency of the support staff and the uptime of the equipment for teachers.

**Detailed Description:** The expenditure would cover the cost for the installation of the low voltage cabling and installation of the additional dual outlet primarily in the secondary schools. The estimate is 625 units requiring the data cabling at an estimate of \$275 per room for a total of \$171,875. The power outlets are needed in 175 classrooms at an estimated \$275 each for \$48,125. The grand total is \$ 220,000.

**Estimated Cost:** The cost of this funding request is \$230,000 which includes the engineering professional for documents for bidding purposes.

**Long Range Costs:** This project has no long range cost other than preventative maintenance to monitor systems and to prepare for any damaged cable or electrical outlet. This new work is expected to last 15 years.

**Demand on Existing Facilities:** This project would facilitate remote control of the projectors, maximizing technician efficiency and limiting downtime of the projection systems in the classrooms.

**Security, Safety and Loss Control:** This project would enable proactive action regarding replacing projection bulbs.

**Environmental Considerations:** Not applicable.

**Funding, Financing & SDE Reimbursement:** This project would not proceed without funding approval. There are no State or Federal regulations that require this project to be undertaken. This project is not eligible for reimbursement through the State Department of Education, Bureau of School Facilities.

Schedule, Phasing & Timing: This work would be planned as a summer project to be prepared for the new school year.

Other Considerations: The work will be bid out by the Town Purchasing Department and will be performed by outside contractors.

Alternates to the Request: The alternate to this request is to do nothing which creates inequity between classrooms for access to projection technology systems.

# Systemwide

**Information Technology and Electrical Upgrades**

**\$ 230,000**

## Details

Licensed contractor to provide labor and materials  
Prepared by: Yankee Electric and Auto Home Commercial Companies

### **Scope:**

To upgrade existing Information Technology conditions related to the multimedia projectors by providing electrical power quad outlets next to all multimedia projectors.

### **Breakdown:**

#### Electrical

Investigate school building electrical panel locations for spare breakers and feeders for new power requirements.  
Remove acoustical ceiling pads to run new power wiring.  
Provide material and labor for new quad outlets in all classrooms with multimedia projectors.  
Run electrical power lines to main electrical panel.  
Label and mark breaker locations clearly with marker.  
Start-up and testing of units.  
One year warranty.  
Permits as required.

#### Low Voltage

Investigate school building MDF closet location for CAT 6 wiring integration.  
Remove acoustical ceiling pads to run new low voltage wiring.  
Provide material and labor for new CAT 6 wiring integration in all classrooms with multimedia Projector systems.  
Run low voltage wiring lines to MDF closet.  
Label and mark breaker locations clearly with marker.  
Start-up and testing of units.  
One year warranty.  
Permits as required.

---

**\$ 220,000**

Licensed professional engineer to provide labor and materials  
Prepared by: van Zelm Engineers, Inc.

**Breakdown:**

Provide professional engineering drawings and specifications for information technology low voltage CAT 6 wiring and electrical power quad outlets for school classrooms with multimedia projector systems.

\$ 10,000

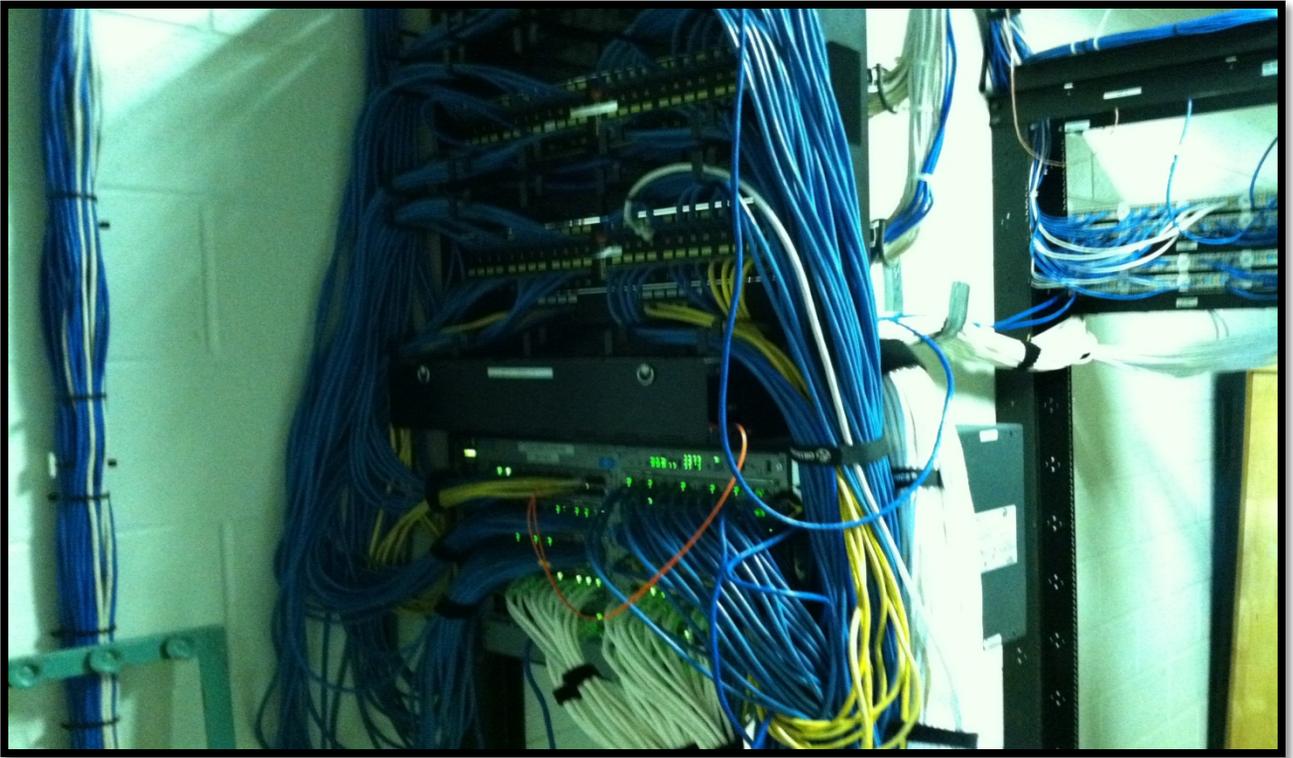
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**Total**

**\$ 230,000**



Multimedia projector CAT 6 low voltage



CAT 6 low voltage rack cabinet



Electrical power quad outlet

Non-Recurring Capital

# **NON-RECURRING CAPITAL**

## **SECTION 2**

### **FINANCIALS**

**01-27-2016**

**TOWN OF FAIRFIELD**  
**NON-RECURRING CAPITAL PROJECT REQUESTS AND ASSOCIATED REIMBURSEMENTS**  
**SUBMITTED TO THE BOARD OF SELECTMEN**  
**JANUARY 27, 2016**

**Town**

	<u><b>2016/2017</b></u>	<u><b>2017/2018</b></u>	<u><b>2018/2019</b></u>	<u><b>2019/2020</b></u>	<u><b>2020/2021</b></u>	<u><b>Total</b></u>
Non-Recurring Projects	\$ 1,825,000	\$ 3,200,000	\$ 2,412,000	\$ 570,000	\$ 1,200,000	\$ 9,207,000
Less: Reimbursements *	\$ 0	\$ (302,000)	\$ -	\$ -	\$ -	\$ (302,000)
<b>Net Non-Recurring Projects</b>	<b>\$ 1,825,000</b>	<b>\$ 2,898,000</b>	<b>\$ 2,412,000</b>	<b>\$ 570,000</b>	<b>\$ 1,200,000</b>	<b>\$ 8,905,000</b>

**Board of Education**

	<u><b>2016/2017</b></u>	<u><b>2017/2018</b></u>	<u><b>2018/2019</b></u>	<u><b>2019/2020</b></u>	<u><b>2020/2021</b></u>	<u><b>Total</b></u>
Non-Recurring Projects	\$ 3,170,692	\$ 2,276,113	\$ 2,050,000	\$ 1,355,303	\$ 2,000,908	\$ 10,853,016
Less: Reimbursements *	\$ -	\$ ( <b>\$221,428</b> )	\$ -	\$ (22,466)	\$ -	\$ (243,894)
<b>Net Non-Recurring Projects</b>	<b>\$ 3,170,692</b>	<b>\$ 2,054,685</b>	<b>\$ 2,050,000</b>	<b>\$ 1,332,837</b>	<b>\$ 2,000,908</b>	<b>\$ 10,609,122</b>

**Grand Total - Board of Education and Town**

	<u><b>2016/2017</b></u>	<u><b>2017/2018</b></u>	<u><b>2018/2019</b></u>	<u><b>2019/2020</b></u>	<u><b>2020/2021</b></u>	<u><b>Total</b></u>
Non-Recurring Projects	\$ 4,995,692	\$ 5,476,113	\$ 4,462,000	\$ 1,925,303	\$ 3,200,908	\$ 20,060,016
Less: Reimbursements *	\$ -	\$ (523,428)	\$ -	\$ (22,466)	\$ -	\$ (545,894)
<b>Net Non-Recurring Projects</b>	<b>\$ 4,995,692</b>	<b>\$ 4,952,685</b>	<b>\$ 4,462,000</b>	<b>\$ 1,902,837</b>	<b>\$ 3,200,908</b>	<b>\$ 19,514,122</b>

\*Note: Reimbursement typically not received in same year as project request year. Cash flow for Waterfall reflects reimbursement in fiscal year expected.

**TOWN OF FAIRFIELD  
NON-RECURRING CAPITAL PROJECTS REQUESTED AND ASSOCIATED REIMBURSEMENTS  
SUBMITTED TO THE BOARD OF SELECTMEN  
JANUARY 27, 2016**

**FISCAL YEAR 2016/2017**

**TOWN**

Department	Project	Project Amount	Reimbursement *	Net Project Amount	
DPW	Fairfield Woods Library Generator	\$120,000		\$120,000	20 Year Bond
DPW	Gould Manor Pond Drain./Environ. Improv.	\$250,000		\$250,000	20 Year Bond
DPW	6-Wheel All Season Dump Truck	\$230,000		\$230,000	15 Year Bond
DPW	Sherman School Field Renovation	\$100,000		\$100,000	20 Year Bond
Park & Rec	Golf Course Renovation	\$100,000		\$100,000	20 Year Bond
IT	Cluster Replacement - Town	\$125,000		\$125,000	5 Year Bond
Fire	Pumper E-5	\$900,000		\$900,000	20 Year Bond
<b>SUBTOTAL NON-RECURRING CAPITAL:</b>		<b>\$1,825,000</b>	<b>\$0</b>	<b>\$1,825,000</b>	

**BOARD OF EDUCATION**

School	Project	Project Amount	Reimbursement *	Net Project Amount	
CENTRAL OFFICE	IT Server Room Renovation Project	\$200,000		\$200,000	20 Year Bond
DWIGHT ELEM.	Playground Retaining Wall and Stairs	\$100,000		\$100,000	20 Year Bond
FFLD. LUDLOWE HIGH	Replace Two 1971 Boilers	\$620,000		\$620,000	20 Year Bond
SYSTEMWIDE	Security Infrastructure - Camera System	\$1,352,677		\$1,352,677	15 Year Bond
SYSTEMWIDE	Security Infrastructure	\$668,015		\$668,015	20 Year Bond
SYSTEMWIDE	CAT 6 Low Voltage and Electrical Project	\$230,000		\$230,000	20 Year Bond
<b>SUBTOTAL NON-RECURRING CAPITAL:</b>		<b>\$3,170,692</b>	<b>\$0</b>	<b>\$3,170,692</b>	

**GRAND TOTAL NON-RECURRING CAPITAL:** **\$4,995,692**    **\$0**    **\$4,995,692**

\*Note: Reimbursement typically not received in same year as project request year. Cash flow for Waterfall reflects reimbursement in fiscal year expected.

**TOWN OF FAIRFIELD  
NON-RECURRING CAPITAL PROJECTS REQUESTED AND ASSOCIATED REIMBURSEMENTS  
SUBMITTED TO THE BOARD OF SELECTMEN  
JANUARY 27, 2016**

**FISCAL YEAR 2017/2018**

**TOWN**

Department	Project	Project Amount	Reimbursement *	Net Project Amount
DPW	Senior Center Renovation Design	\$150,000		\$150,000
DPW	Tunxis Hill Upper Field Renovation	\$130,000		\$130,000
DPW	Brookside Dr Bridge Design	\$300,000		\$300,000
DPW	Hulls Farm Rd Bridge Design	\$150,000	(\$30,000)	\$120,000
DPW	Commerce Drive Bridge Construction	\$850,000	(\$272,000)	\$578,000
DPW/Conserv.	Grasmere Flood Control & Restoration	\$200,000		\$200,000
DPW/Conserv.	Turney Creek/Riverside Dr. Tide Gates	\$600,000		\$600,000
DPW/Conserv.	Rooster River Bank Stabiliz. (Woodside Cir.)	\$150,000		\$150,000
Park & Rec	Golf Course Renovation	\$100,000		\$100,000
Park & Rec	Lighting - Tennis Court	\$125,000		\$125,000
Police	Police Boat	\$220,000		\$220,000
Police	Radio Consultant	\$100,000		\$100,000
IT	Cluster Replacement - Ffld. Woods Library	\$125,000		\$125,000
<b>SUBTOTAL NON-RECURRING CAPITAL:</b>		<b>\$3,200,000</b>	<b>(\$302,000)</b>	<b>\$2,898,000</b>

**BOARD OF EDUCATION**

School	Project	Project Amount	Reimbursement *	Net Project Amount
SYSTEMWIDE	Emergency Light Project	\$313,322		\$313,322
Tomlinson	Roof Project	\$837,791	(\$221,428)	\$616,363
FLHS	Bathrooms	\$1,125,000		\$1,125,000
<b>SUBTOTAL NON-RECURRING CAPITAL:</b>		<b>\$2,276,113</b>	<b>(\$221,428)</b>	<b>\$2,054,685</b>

**GRAND TOTAL NON-RECURRING CAPITAL:**

<b>\$5,476,113</b>	<b>(\$523,428)</b>	<b>\$4,952,685</b>
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\*Note: Reimbursement typically not received in same year as project request year. Cash flow for Waterfall reflects reimbursement in fiscal year expected.

**TOWN OF FAIRFIELD  
NON-RECURRING CAPITAL PROJECTS REQUESTED AND ASSOCIATED REIMBURSEMENTS  
SUBMITTED TO THE BOARD OF SELECTMEN  
JANUARY 27, 2016**

**FISCAL YEAR 2018/2019**

**TOWN**

Department	Project	Project Amount	Reimbursement *	Net Project Amount
DPW	Riverfield Ballfield Renovation	\$112,000		\$112,000
DPW	Fairfield Woods Elevator	\$275,000		\$275,000
DPW	Hulls Farm Rd Bridge Construction	\$800,000		\$800,000
Park & Rec	Golf Course Renovation	\$100,000		\$100,000
Conservation	Lake Mohegan - Cottage	\$100,000		\$100,000
Conservation	McLevy - Replace Tidegates	\$200,000		\$200,000
Conservation	Center St. Horse Tavern Creek Drainage	\$200,000		\$200,000
Fire	Pumper E-3	\$625,000		\$625,000
<b>SUBTOTAL NON-RECURRING CAPITAL:</b>		<b>\$2,412,000</b>	<b>\$0</b>	<b>\$2,412,000</b>

**BOARD OF EDUCATION**

School	Project	Project Amount	Reimbursement *	Net Project Amount
FWHS	Artificial Turf Field	\$650,000		\$650,000
RLMS	Roof Ext. Project	\$950,000		\$950,000
McKinley	Roof Ext. Project	\$450,000		\$450,000
<b>SUBTOTAL NON-RECURRING CAPITAL:</b>		<b>\$2,050,000</b>	<b>\$0</b>	<b>\$2,050,000</b>

<b>GRAND TOTAL NON-RECURRING CAPITAL:</b>	<b>\$4,462,000</b>	<b>\$0</b>	<b>\$4,462,000</b>
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\*Note: Reimbursement typically not received in same year as project request year. Cash flow for Waterfall reflects reimbursement in fiscal year expected.

**TOWN OF FAIRFIELD  
NON-RECURRING CAPITAL PROJECTS REQUESTED AND ASSOCIATED REIMBURSEMENTS  
SUBMITTED TO THE BOARD OF SELECTMEN  
JANUARY 27, 2016**

**FISCAL YEAR 2019/2020**

**TOWN**

Department	Project	Project Amount	Reimbursement *	Net Project Amount
DPW	Dwight Ballfield Renovation	\$120,000		\$120,000
DPW	Perry's Green Bulkhead - Phase I	\$150,000		\$150,000
Park & Rec	Golf Course Renovation	\$100,000		\$100,000
Conservation	Perry's Mill - Rebuild/Breach Dam - Mill River	\$200,000		\$200,000
<b>SUBTOTAL NON-RECURRING:</b>		<b>\$570,000</b>	<b>\$0</b>	<b>\$570,000</b>

**BOARD OF EDUCATION**

School	Project	Project Amount	Reimbursement *	Net Project Amount
TOMLINSON	Ceiling & Lights	\$668,528		\$668,528
STRATFIELD	Front Façade	\$351,775		\$351,775
STRATFIELD	Front retaining Wall	\$250,000		\$250,000
STRATFIELD	Roof Project	\$85,000	(\$22,466)	\$62,534
<b>SUBTOTAL NON-RECURRING CAPITAL:</b>		<b>\$1,355,303</b>	<b>(\$22,466)</b>	<b>\$1,332,837</b>

<b>GRAND TOTAL NON-RECURRING CAPITAL:</b>	<b>\$1,925,303</b>	<b>(\$22,466)</b>	<b>\$1,902,837</b>
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\*Note: Reimbursement typically not received in same year as project request year. Cash flow for Waterfall reflects reimbursement in fiscal year expected.

**TOWN OF FAIRFIELD  
NON-RECURRING CAPITAL PROJECTS REQUESTED AND ASSOCIATED REIMBURSEMENTS  
SUBMITTED TO THE BOARD OF SELECTMEN  
JANUARY 27, 2016**

**FISCAL YEAR 2020/2021**

**TOWN**

Department	Project	Project Amount	Reimbursement *	Net Project Amount
DPW	Transfer Station Renovation	\$400,000		\$400,000
DPW	Kings Highway Phase III Streetscape	\$800,000		\$800,000
<b>SUBTOTAL NON-RECURRING:</b>		<b>\$1,200,000</b>	<b>\$0</b>	<b>\$1,200,000</b>

**BOARD OF EDUCATION**

School	Project	Project Amount	Reimbursement *	Net Project Amount
District wide	Portable Classrooms	\$250,000		\$250,000
Dwight	Bathrooms	\$303,877		\$303,877
FWHS	Bathrooms	\$1,447,031		\$1,447,031
<b>SUBTOTAL NON-RECURRING CAPITAL:</b>		<b>\$2,000,908</b>	<b>\$0</b>	<b>\$2,000,908</b>

**GRAND TOTAL NON-RECURRING CAPITAL:**

<b>\$3,200,908</b>	<b>\$0</b>	<b>\$3,200,908</b>
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\*Note: Reimbursement typically not received in same year as project request year. Cash flow for Waterfall reflects reimbursement in fiscal year expected.









**Projected Cash Flow for Capital and Non-Recurring Projects - Town and Board of Education  
2015/2016 through 2024/2025**

**Board of Education**

	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>Total</u>
Capital Projects	\$ 13,539,022	\$ 3,250,000	\$ 8,335,263	\$ 7,072,202	\$ 6,412,478	\$ 6,662,478	\$ 1,625,000	\$ 2,442,798	\$ 2,287,522	\$ 4,500,000	\$ 56,126,763
Less: Reimbursements	\$ (3,578,363)	\$ (858,975)	\$ (2,203,010)	\$ (1,869,183)	\$ (1,694,818)	\$ (1,760,893)	\$ (429,488)	\$ (645,632)	\$ (604,592)	\$ (1,189,350)	\$ (14,834,304)
Net Capital Projects	\$ 9,960,659	\$ 2,391,025	\$ 6,132,253	\$ 5,203,019	\$ 4,717,660	\$ 4,901,585	\$ 1,195,512	\$ 1,797,166	\$ 1,682,930	\$ 3,310,650	\$ 41,292,459
Non-Recurring Projects	\$ 4,016,342	\$ 3,170,692	\$ 2,276,113	\$ 2,050,000	\$ 1,355,303	\$ 2,000,908	\$ 3,340,186	\$ 2,366,212	\$ 2,234,046	\$ 1,528,075	\$ 24,337,877
Less: Reimbursements	\$ (325,708)	\$ -	\$ (221,428)	\$ -	\$ (22,466)	\$ -	\$ (697,887)	\$ (365,062)	\$ (590,459)	\$ (271,720)	\$ (2,494,730)
Net Non-Recurring Projects	\$ 3,690,634	\$ 3,170,692	\$ 2,054,685	\$ 2,050,000	\$ 1,332,837	\$ 2,000,908	\$ 2,642,299	\$ 2,001,150	\$ 1,643,587	\$ 1,256,355	\$ 21,843,147
<b>Total Cash Flow Required</b>	<b>\$ 13,651,293</b>	<b>\$ 5,561,717</b>	<b>\$ 8,186,938</b>	<b>\$ 7,253,019</b>	<b>\$ 6,050,497</b>	<b>\$ 6,902,493</b>	<b>\$ 3,837,811</b>	<b>\$ 3,798,316</b>	<b>\$ 3,326,517</b>	<b>\$ 4,567,005</b>	<b>\$ 63,135,606</b>

**Town**

	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>Total</u>
Capital Projects	\$ 6,316,800	\$ 11,968,199	\$ 7,600,000	\$ 6,550,000	\$ 1,200,000	\$ 3,200,000	\$ 1,250,000	\$ 1,000,000	\$ -	\$ -	\$ 39,084,999
Less: Reimbursements	\$ (2,464,500)	\$ (5,796,500)	\$ (880,000)	\$ (2,880,000)	\$ (504,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (12,525,000)
Net Capital Projects	\$ 3,852,300	\$ 6,171,699	\$ 6,720,000	\$ 3,670,000	\$ 696,000	\$ 3,200,000	\$ 1,250,000	\$ 1,000,000	\$ -	\$ -	\$ 26,559,999
Non-Recurring Projects	\$ 3,024,000	\$ 1,825,000	\$ 3,200,000	\$ 2,412,000	\$ 570,000	\$ 1,200,000	\$ 1,100,000	\$ -	\$ 640,000	\$ 650,000	\$ 14,621,000
Less: Reimbursements	\$ -	\$ (856,750)	\$ (272,000)	\$ (30,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,158,750)
Net Non-Recurring Projects	\$ 3,024,000	\$ 968,250	\$ 2,928,000	\$ 2,382,000	\$ 570,000	\$ 1,200,000	\$ 1,100,000	\$ -	\$ 640,000	\$ 650,000	\$ 13,462,250
<b>Total Cash Flow Required</b>	<b>\$ 6,876,300</b>	<b>\$ 7,139,949</b>	<b>\$ 9,648,000</b>	<b>\$ 6,052,000</b>	<b>\$ 1,266,000</b>	<b>\$ 4,400,000</b>	<b>\$ 2,350,000</b>	<b>\$ 1,000,000</b>	<b>\$ 640,000</b>	<b>\$ 650,000</b>	<b>\$ 40,022,249</b>

**Grand Total - Board of Education and Town**

	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2023</u>	<u>2024/2025</u>	<u>Total</u>
Capital Projects	\$ 19,855,822	\$ 15,218,199	\$ 15,935,263	\$ 13,622,202	\$ 7,612,478	\$ 9,862,478	\$ 2,875,000	\$ 3,442,798	\$ 2,287,522	\$ 4,500,000	\$ 95,211,762
Less: Reimbursements	\$ (6,042,863)	\$ (6,655,475)	\$ (3,083,010)	\$ (4,749,183)	\$ (2,198,818)	\$ (1,760,893)	\$ (429,488)	\$ (645,632)	\$ (604,592)	\$ (1,189,350)	\$ (27,359,304)
Net Capital Projects	\$ 13,812,959	\$ 8,562,724	\$ 12,852,253	\$ 8,873,019	\$ 5,413,660	\$ 8,101,585	\$ 2,445,512	\$ 2,797,166	\$ 1,682,930	\$ 3,310,650	\$ 67,852,458
Non-Recurring Projects	\$ 7,040,342	\$ 4,995,692	\$ 5,476,113	\$ 4,462,000	\$ 1,925,303	\$ 3,200,908	\$ 4,440,186	\$ 2,366,212	\$ 2,874,046	\$ 2,178,075	\$ 38,958,877
Less: Reimbursements	\$ (325,708)	\$ (856,750)	\$ (493,428)	\$ (30,000)	\$ (22,466)	\$ -	\$ (697,887)	\$ (365,062)	\$ (590,459)	\$ (271,720)	\$ (3,653,480)
Net Non-Recurring Projects	\$ 6,714,634	\$ 4,138,942	\$ 4,982,685	\$ 4,432,000	\$ 1,902,837	\$ 3,200,908	\$ 3,742,299	\$ 2,001,150	\$ 2,283,587	\$ 1,906,355	\$ 35,305,397
<b>Total Cash Flow Required</b>	<b>\$ 20,527,593</b>	<b>\$ 12,701,666</b>	<b>\$ 17,834,938</b>	<b>\$ 13,305,019</b>	<b>\$ 7,316,497</b>	<b>\$ 11,302,493</b>	<b>\$ 6,187,811</b>	<b>\$ 4,798,316</b>	<b>\$ 3,966,517</b>	<b>\$ 5,217,005</b>	<b>\$ 103,157,855</b>

**NON-RECURRING CAPITAL**

**SECTION 3**

**BOND RESOLUTIONS**

**01-27-2016**

(5 years)

**A RESOLUTION APPROPRIATING \$125,000 FOR THE COST OF A CERTAIN  
NONRECURRING CAPITAL PROJECT AND AUTHORIZING THE ISSUANCE OF  
BONDS TO FINANCE SUCH APPROPRIATION.**

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**Resolved:**

1. As recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield hereby appropriates the sum of One Hundred Twenty-five Thousand and 00/100 (\$125,000.00) Dollars to fund all costs associated with the nonrecurring capital project described on **Exhibit A** attached hereto, inclusive of planning, design and engineering fees, other professional fees, demolition, construction and oversight costs and temporary and permanent financing costs (the "Project"), in the amount of such appropriation allocated to the Project as set forth in **Exhibit A**.
2. To finance such appropriation, and as recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield shall borrow a sum not to exceed One Hundred Twenty-five Thousand and 00/100 (\$125,000.00) Dollars and issue bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing the appropriation for the Project.
3. The Board of Selectmen, the Treasurer and the Fiscal Officer of the Town are hereby appointed a committee (the "Committee") with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of conversion, if any, from one interest rate mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, including Chapter 748 (Registered Public Obligations Act), Chapter 173 (School Building Projects) and Chapter 109 (Municipal Bond Issues) to issue, sell and deliver the bonds and, further, shall have full power and authority to do all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and

remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectman and Treasurer or Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing agreement, standby marketing agreements, bond purchase agreement, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.
5. The bonds may be designated "Public Improvement Bonds," series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than five (5) annual installments of principal, the first installment to mature not later than three (3) years from the date of issue and the last installment to mature not later than five (5) years from the date of issue. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.
6. The Committee is further authorized to make temporary borrowings as authorized by the General Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and limitations as provided by the Connecticut General Statutes. Notes evidencing such borrowings shall be signed by the First Selectman and Treasurer or Fiscal Officer, have the seal of the Town affixed, which signing and sealing may be by facsimile as provided by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel, and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates,

form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the General Statutes and shall have all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

7. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Project from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.
8. The First Selectman, Fiscal Officer and Town Treasurer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of bondholders to provide information on an annual or other periodic basis to the Municipal Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.
9. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Connecticut General Statutes and the laws of the United States.
10. The First Selectman or other proper Town official is hereby authorized to apply for and accept any available State or Federal grant in aid of the financing of any Project, and to take all action necessary and proper in connection therewith.

**EXHIBIT A**

**TO**

**A RESOLUTION APPROPRIATING \$125,000 FOR THE COST OF A CERTAIN  
NONRECURRING CAPITAL PROJECT AND AUTHORIZING THE ISSUANCE OF  
BONDS TO FINANCE SUCH APPROPRIATION**

<b>TOWN OF FAIRFIELD</b>			
	<b>Department</b>	<b>Project</b>	<b>Project Amount</b>
1	IT	Cluster Replacement - Town	\$125,000
	<b>TOTAL</b>		<b>\$125,000</b>

(15 years)

**A RESOLUTION APPROPRIATING \$1,582,677 FOR THE COSTS OF CERTAIN NONRECURRING CAPITAL PROJECTS AND AUTHORIZING THE ISSUANCE OF BONDS TO FINANCE SUCH APPROPRIATION.**

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**Resolved:**

1. As recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield hereby appropriates the sum of One Million Five Hundred Eighty Two Thousand Six Hundred Seventy Seven and 00/100 (\$1,582,677.00) Dollars to fund all costs associated with the nonrecurring capital project described on **Exhibit A** attached hereto, inclusive of planning, design and engineering fees, other professional fees, demolition, construction and oversight costs and temporary and permanent financing costs (the "Project"), in the amount of such appropriation allocated to the Project as set forth in **Exhibit A**. Any reallocation of unused bond proceeds from one project category listed as items 1-2 on **Exhibit A** to a different project category listed on **Exhibit A** that would cause the cost of such project to exceed the cost listed on **Exhibit A** shall require approval by the Board of Selectmen, Board of Finance, and the Representative Town Meeting.
2. To finance such appropriation, and as recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield shall borrow a sum not to exceed One Million Five Hundred Eighty Two Thousand Six Hundred Seventy Seven and 00/100 (\$1,582,677.00) Dollars and issue bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing the appropriation for the Project.
3. The Board of Selectmen, the Treasurer and the Fiscal Officer of the Town are hereby appointed a committee (the "Committee") with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of conversion, if any, from one interest rate mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, including Chapter 748 (Registered Public Obligations Act), Chapter 173 (School Building Projects) and Chapter 109 (Municipal Bond Issues)

to issue, sell and deliver the bonds and, further, shall have full power and authority to do all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectman and Treasurer or Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing agreement, standby marketing agreements, bond purchase agreement, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.
5. The bonds may be designated "Public Improvement Bonds," series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than fifteen (15) annual installments of principal, the first installment to mature not later than three (3) years from the date of issue and the last installment to mature not later than fifteen (15) years from the date of issue. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.
6. The Committee is further authorized to make temporary borrowings as authorized by the General Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and limitations as provided by the Connecticut General Statutes. Notes evidencing such

borrowings shall be signed by the First Selectman and Treasurer or Fiscal Officer, have the seal of the Town affixed, which signing and sealing may be by facsimile as provided by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel, and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates, form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the General Statutes and shall have all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

7. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Project from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.
8. The First Selectman, Fiscal Officer and Town Treasurer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of bondholders to provide information on an annual or other periodic basis to the Municipal Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.
9. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Connecticut General Statutes and the laws of the United States.
10. The First Selectman or other proper Town official is hereby authorized to apply for and accept any available State or Federal grant in aid of the financing of any Project, and to take all action necessary and proper in connection therewith.

**EXHIBIT A**

**TO**

**A RESOLUTION APPROPRIATING \$1,582,677 FOR THE COSTS OF A CERTAIN  
NONRECURRING CAPITAL PROJECT AND AUTHORIZING THE ISSUANCE OF  
BONDS TO FINANCE SUCH APPROPRIATION**

<b>TOWN OF FAIRFIELD</b>			
	<b><u>TOWN</u></b>		
	<b><u>Department</u></b>	<b><u>Project</u></b>	<b><u>Project Amount</u></b>
1	DPW	6-Wheel All-Season Dump Truck	\$230,000
	<b>SUBTOTAL NON- RECURRING CAPITAL:</b>		<b>\$230,000</b>
	<b>BOARD OF EDUCATION</b>		
	<b><u>Department</u></b>	<b><u>Project</u></b>	<b><u>Project Amount</u></b>
2	SYSTEMWIDE	Security Infrastructure	\$1,352,677
	<b>SUBTOTAL NON- RECURRING CAPITAL:</b>		<b>1,352,677</b>
	<b>TOTAL NON-RECURRING CAPITAL:</b>		<b>\$1,582,677</b>

(20 years)

**A RESOLUTION APPROPRIATING \$3,288,015 FOR THE COSTS OF CERTAIN NONRECURRING CAPITAL PROJECTS AND AUTHORIZING THE ISSUANCE OF BONDS TO FINANCE SUCH APPROPRIATION.**

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**Resolved:**

1. As recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield hereby appropriates the sum of Three Million Two Hundred Eighty Eight Thousand Fifteen and 00/100 (\$3,288,015.00) Dollars to fund all costs associated with the nonrecurring capital projects described on **Exhibit A** attached hereto, inclusive of planning, design and engineering fees, other professional fees, demolition, construction and oversight costs and temporary and permanent financing costs (collectively, the “Projects”), in the amount of such appropriation allocated to each Project as set forth in **Exhibit A**. Any reallocation of unused bond proceeds from one project category listed as items 1-10 on **Exhibit A** to a different project category listed on **Exhibit A** that would cause the cost of such project to exceed the cost listed on **Exhibit A** shall require approval by the Board of Selectmen, Board of Finance, and the Representative Town Meeting.
2. To finance such appropriation, and as recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield shall borrow a sum not to exceed Three Million Two Hundred Eighty Eight Thousand Fifteen and 00/100 (\$3,288,015.00) Dollars and issue bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing the appropriation for the Projects.
3. The Board of Selectmen, the Treasurer and the Fiscal Officer of the Town are hereby appointed a committee (the “Committee”) with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of conversion, if any, from one interest rate mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, including Chapter 748 (Registered Public Obligations Act), Chapter 173 (School Building Projects) and Chapter 109 (Municipal Bond Issues) to issue, sell and deliver the bonds and, further, shall have full power and authority to do

all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectman and Treasurer or Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing agreement, standby marketing agreements, bond purchase agreement, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.
5. The bonds may be designated "Public Improvement Bonds," series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than twenty (20) annual installments of principal, the first installment to mature not later than three (3) years from the date of issue and the last installment to mature not later than twenty (20) years from the date of issue. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.
6. The Committee is further authorized to make temporary borrowings as authorized by the General Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and limitations as provided by the Connecticut General Statutes. Notes evidencing such borrowings shall be signed by the First Selectman and Treasurer or Fiscal Officer, have

the seal of the Town affixed, which signing and sealing may be by facsimile as provided by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel, and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates, form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the General Statutes and shall have all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

7. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Projects from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.
8. The First Selectman, Fiscal Officer and Town Treasurer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of bondholders to provide information on an annual or other periodic basis to the Municipal Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.
9. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Connecticut General Statutes and the laws of the United States.
10. The First Selectman or other proper Town official is hereby authorized to apply for and accept any available State or Federal grant in aid of the financing of any Project, and to take all action necessary and proper in connection therewith.

**EXHIBIT A**

**TO**

**A RESOLUTION APPROPRIATING \$3,288,015 FOR THE COSTS OF CERTAIN  
NONRECURRING CAPITAL PROJECTS AND AUTHORIZING THE ISSUANCE OF  
BONDS TO FINANCE SUCH APPROPRIATION**

<b>TOWN OF FAIRFIELD</b>			
	<b><u>TOWN</u></b>		
	<b><u>Department</u></b>	<b><u>Project</u></b>	<b><u>Project Amount</u></b>
1	DPW	Fairfield Woods Library Generator	\$120,000
2	DPW	Gould Manor Pond Drain./Environ. Improv.	\$250,000
3	DPW	Sherman School Field Renovation	\$100,000
4	PARK & REC	Gold Course Renovation	\$100,000
5	FIRE	Pumper E-5	\$900,000
	<b>SUBTOTAL NON- RECURRING CAPITAL:</b>		<b>\$1,470,000</b>
	<b><u>BOARD OF EDUCATION</u></b>		
	<b><u>School</u></b>	<b><u>Project</u></b>	<b><u>Project Amount</u></b>
6	CENTRAL OFFICE	IT Server Room Renovation Project	\$200,000
7	DWIGHT ELEM.	Playground Retaining Wall and Stairs	\$100,000
8	FFLD. LUDLOWE HIGH	Replace Two 1971 Boilers	\$620,000
9	SYSTEMWIDE	Security Infrastructure	\$668,015
10	SYSTEMWIDE	CAT 6 Low Voltage and Electrical Project	\$230,000
	<b>SUBTOTAL NON- RECURRING CAPITAL:</b>		<b>\$1,818,015</b>
	<b>TOTAL</b>		<b>\$3,288,015</b>

Holland Hill  
Board of Finance Backup  
02-02-2016

Holland Hill Board of Selectmen documents include:

1. Capital Project Request
2. Timeline
3. Educational Specifications
4. Enrollment Projections
5. Bond Resolution

## **Holland Hill Elementary School**

### **Project Team Initial Funding and Temporary (portable) Classrooms \$ 1,240,000**

**Background:** Holland Hill Elementary School is in need of a partial renovation and new addition to meet the growing enrollment and to eliminate the three existing temporary (portable) classrooms. The school building was built in 1956 and at that time had a building capacity of 315 students. The October 1, 2015 enrollment is 405 students. The temporary (portable) classrooms were installed on the school site in 2000.

**Purpose & Justification:** The condition of the school building is considered good but all building systems are designed back to the 1950's so building codes, fire codes, ADA and health codes will require upgrades at this time to bring the school building up to and as close to possible the 2015 design. The renovation and addition now will provide the school building the proper space capacities it needs to support the district curriculum for the staff and students to lead Holland Hill Elementary School into the future in Fairfield.

**Detailed Description:** The expenditure would cover the cost of hiring a project team to provide design development drawings and specifications for cost estimates to bring forth to the Town of Fairfield to hear and consider an appropriation for the renovation and addition project. The expenditure would also cover the cost of two temporary (portable) classrooms for the immediate need while the project team is working on design development documents and the school system is seeking approval for funding and a building committee for the full project.

**Estimated Cost:** The cost of this funding request is \$1,240,000. This number is based on similar projects undertaken in the system and a probable construction cost estimate provided by Ken Boroson Architects. This cost number also includes the cost estimate for two temporary (portable) classrooms based on previous purchases in the school district at our elementary schools.

**Long Range Costs:** The project team funding will provide good estimates for construction numbers for the full project request and will be good for up to three years. The temporary (portable) classrooms will have an anticipated life of 20 years, but will be leased only until the full project is completed.

**Demand on Existing Facilities:** Not applicable.

**Security, Safety and Loss Control:** This project would include security/safety fencing around the temporary (portable) classrooms and will reduce safety and loss control by drastically reducing the risk of the area for the temporary (portable) classrooms while school is in session.

Environmental Considerations: Not applicable.

Funding, Financing & SDE Reimbursement: This project would not proceed without funding approval. There are no State or Federal regulations that require this project to be undertaken. This project is eligible for reimbursement through the State Department of Education, Bureau of School Facilities except for the cost of the portables themselves. However, the full renovation and addition project request is eligible for reimbursement through the State Department of Education, Bureau of School Facilities.

Schedule, Phasing & Timing: The schedule is to begin working with the project team as soon as possible and to install the two temporary (portable) classrooms over the summer of 2016 to be in place and ready for the start of the new school year.

Other Considerations: The work will be bid out by the Town Purchasing Department and will be performed by outside contractors.

Alternates to the Request: The alternate to this request is to do nothing. This alternative will delay the needed temporary (portable) classrooms for the growing enrollment issue at the school and this will delay the full project as well as further delay other similar projects scheduled in the BOE future planning.

# Holland Hill Elementary School

## Project Team Initial Funding and Temporary (portable) Classrooms

\$ 1,240,000

## Details

Architect/Engineers/Consultants	\$495,500
<ul style="list-style-type: none"><li>• Structural Engineer</li><li>• MEP Engineer</li><li>• Civil Engineer</li><li>• Landscape Architect</li><li>• Interior/Furniture Designer</li><li>• Lighting Consultant</li><li>• Traffic &amp; Signage Consultant</li><li>• Audio/Visual Consultant</li><li>• Information Technology Consultant</li><li>• Kitchen Consultant</li><li>• Commissioning Agent</li><li>• Cost Estimator</li></ul>	
Environmental/Haz-Mat Consultant	\$ 82,000
Surveyor	\$ 15,000
Geotech Engineer	\$ 20,000
LEED/Green Building Consultant	\$ 25,000
Construction Management/Owner Representative	\$ 155,000
Legal	\$ 10,000
Expenses	\$ 49,000
Two Temporary (portable) Classrooms	\$ 250,000
<ul style="list-style-type: none"><li>• Setup &amp; Takedown</li><li>• Lease Payment</li><li>• FF&amp;E</li><li>• IT &amp; Security Infrastructure</li></ul>	
Contingency & Escalation	\$ 138,500
<b>Total Budget Estimate (2016 Dollars)</b>	<b>\$ 1,240,000</b>



Holland Hill Elementary School  
Front View



## Holland Hill Elementary School Back Views



Holland Hill Elementary School  
Back View Temporary (Portable) Classrooms



Holland Hill Elementary School  
Back View Temporary (Portable) Classrooms

## **Example Timeline for Holland Hill Project**

Project Team Initial Funding for Building Committee through Design Development plus Temporary (Portable) Classrooms Costs  
'Day Staff' as initial Building Committee

Dec. 2015	<b>Fairfield Public Schools</b> <ul style="list-style-type: none"><li>• Develops Project Team Initial Funding request analysis (including temporary classrooms costs) for services through Design Development</li></ul>
Dec. 2015 – Jan. 2016	<b>Board of Education:</b> <ul style="list-style-type: none"><li>• Approve Educational Specifications</li></ul>
Jan 2016	<b>Fairfield Public Schools:</b> <ul style="list-style-type: none"><li>• Hires Architect for Temporary (Portable) Classroom Design</li></ul> <b>Board of Education:</b> <ul style="list-style-type: none"><li>• Approve Project Team Initial Funding request analysis (including temporary classrooms costs) for services through Design Development</li></ul> <b>Board of Selectman :</b> <ul style="list-style-type: none"><li>• Establishes a Building Committee</li><li>• Approve Building Committee Charge</li><li>• Approve initial Building Committee Members ('Day Staff')</li><li>• Approve the '3 Resolutions'</li><li>• Approve Project Team Initial Funding request</li></ul>
Jan. 2016 – Feb. 2016	<b>Architect develops:</b> <ul style="list-style-type: none"><li>• Temporary (Portable) Classrooms Bid Documents</li></ul>
Feb. 2016	<b>Board of Finance:</b> <ul style="list-style-type: none"><li>• Approve Project Team Initial Funding request</li></ul> <b>RTM:</b> <ul style="list-style-type: none"><li>• Approve initial Building Committee Members ('Day Staff')</li><li>• Approve the '3 Resolutions'</li><li>• Approve Project Team Initial Funding request</li></ul> <b>Fairfield Public Schools:</b> <ul style="list-style-type: none"><li>• Files the SCG-049 for the temporary (portable) classrooms with the state</li><li>• Files the SCG-049 for full project with the state</li></ul>
Mar. 2016	<b>SCG</b> issues approval to bid temporary (portable) classrooms.

## **Example Timeline for Holland Hill Project**

Project Team Initial Funding for Building Committee through Design Development plus Temporary (Portable) Classrooms Costs  
'Day Staff' as initial Building Committee

Mar. 2016 –Apr. 2016

**Purchasing Department:**

- Requests bids for temporary (portable) classrooms.

Apr. 2016

**Building Committee:**

- Approve award of temporary (portable) classrooms bid
- Hires Project Architect

**Purchasing Department:**

- Awards bid for temporary (portable) classrooms

Apr 2016 – June 2016

**Architect** develops the:

- Conceptual Designs

May 2016 - June 2016

**Building Committee** selects and hires:

- Construction Manager
- Owner's Rep.
- Commissioning Agent

June 2016 – Aug. 2016

**Vendor:**

- Constructs temporary (portable) classrooms

June 2016 –July 2016

**Construction Manager:**

- Estimates Conceptual Designs

July 2016

**Building Committee:**

- Select Conceptual Design for the project

July 2016 – Sept. 2016

**Architect** proceeds with:

- Schematic Design Development Documents

Sept. 2016 – Oct. 2016

**Construction Manager:**

- Estimates Schematic Design
- Value Engineering process with design/construction/owner team (if necessary)

Oct. 2016

**Building Committee:**

- Approve Schematic Development Documents

## **Example Timeline for Holland Hill Project**

Project Team Initial Funding for Building Committee through Design Development plus Temporary (Portable) Classrooms Costs

'Day Staff' as initial Building Committee

Oct. 2016 – Feb. 2017

**Architect** proceeds with:

- Hazardous Materials Survey
- Design Development Documents

**Board of Selectman and RTM**

- Add permanent members to the building committee.

Feb. 2017- Mar. 2017

**Construction Manager:**

- Estimates Design Development Documents
- Value Engineering process with design/construction/owner team (if necessary)

Mar. 2017

**Building Committee:**

- Approve Design Development Documents
- Seek Full Project Funding

**Architect, Construction Manager & Owners Rep**

- Meets with SCG for Design Development Review

Apr. 2017 – May. 2017

**Board of Selectman, Board of Finance & RTM**

- Approve Full Project Funding Request

May 2017 – July 2017

**Architect** proceeds with:

- Construction Documents (CD)

July 2017 –Aug. 2017

**Building Committee, Architect, Construction Manager & Owners Rep** seeks approval from land use boards which may include all of the following:

- Wetlands
- Conservation
- Zoning Board of Appeals
- Planning and Zoning Commission

Aug. 2017

**Construction Manager:**

- Estimates Construction Documents (CD)
- Value Engineering process with design/construction/owner team (if necessary)

## **Example Timeline for Holland Hill Project**

Project Team Initial Funding for Building Committee through Design Development plus Temporary (Portable) Classrooms Costs

'Day Staff' as initial Building Committee

Aug. 2017 – Sep. 2017

**Building Committee** Approve:

- Construction Documents – plans, specifications and budget
- Submit plans and specifications for third party review

**Board of Education** Approve:

- Construction Documents - plans and specifications

Oct. 2017

**SCG** issues approval to bid.

Nov. 2017

**Construction Manager** and **Purchasing Department** advertise for bids on the project. Once bids are received and analyzed a list of the qualified low bidders is sent to the **Building Committee** for approval.

**Building Committee** Approve the selection of qualified low bidders.

Dec. 2017 – Aug. 2019?

**Construction Manager** schedules and constructs project.

## **Example Timeline for Holland Hill Project**

Project Team Initial Funding for Building Committee through Design Development plus Temporary (Portable) Classrooms Costs  
'Day Staff' as initial Building Committee

### **PRO**

- Faster than 'Stratfield/FWMS' school construction process.
- Faster than 'Osborn Hill/FLHS' school construction process.
- Higher level of existing conditions investigation/discovery prior to funding request.
- Higher level of plan development prior to funding request.
- Higher level of budget development prior to funding request.
- Initial building committee would be able to meet more frequently to assist in shorting the design turnaround time.
- Longer period of time for vetting permanent building committee members.
- Permanent building committee members (starting with the permanent chairperson) can be added during the development stage to help get them accustomed to the town processes.
- Temporary (portable) classrooms are eligible for SCG reimbursement.

### **CON**

- New process – has not been tried before.
- Funding is sought in two steps.
- Lack of 'ownership' of the design scope by the permanent team because it was not developed by them.
- Lack of 'citizen' input on consultant selection and initial design steps.

**EDUCATIONAL SPECIFICATIONS**

**Holland Hill Elementary School**

**Fairfield Public Schools**

**Fairfield, CT 06824**

**David Title, Ed.D.**

**Superintendent of Schools**

*Approved by BOE 1/12/16*

## **RATIONALE FOR THE PROJECT**

### **BACKGROUND:**

On June 23, 2015, the Fairfield Board of Education adopted the “Fairfield Public Schools Facilities Plan 2013-2024.” The primary purpose of this plan was to produce a blueprint for meeting the facilities needs of the school district over the next eleven years. These facilities needs were identified in the “Fairfield Public Schools Enrollment Projects and Elementary School Capacity Study” by MGT of America dated December 14, 2010. The extension and alteration project for Holland Hill Elementary School is a major recommendation for meeting these identified facilities needs by the installation of an addition to eliminate portable classrooms; implementing all building code, life safety code and fire code requirements; upgrading the core facilities; installation of new fire sprinkler system; installation of new HVAC fresh air and air-conditioning system and the installation of new lockers.

### **ENROLLMENT:**

Between 2005 and 2015 the enrollment at Holland Hill has increased from 341 students to 405 students. On May 1, 2014, MGT of America issued an updated report on the district’s 10-year enrollment projections. This report shows a continued increase in enrollment for Holland Hill to a peak of 438 students. This continued enrollment increase is a significant change in the demographic pattern.

### **CAPACITY:**

The Fairfield Public Schools currently has eleven elementary schools and ten relocatable classrooms. Presently, Holland Hill School has a capacity of 315 students without relocatable classrooms. The enrollment for Holland Hill Elementary School in the 2015-16 school year is 405 students with a continued enrollment increase projected.

In developing elementary capacity we use a “24 classroom” model. This model is based upon four classrooms per grade level K -5 with an average class size of 21 students for a capacity of 504 students. In addition to these primary classroom spaces, appropriate additional full size classrooms are dedicated to art, music, science and special education, as required.

To support the building capacity, appropriately sized “core” spaces are required. These include a gymnasium, a media center with an integrated or directly adjacent computer lab, and cafeteria with a full kitchen and two serving lines.

## **LONG RANGE EDUCATIONAL PLAN:**

On March 11, 2014 the Fairfield Board of Education approved the following policies which outline the long range educational plan of the district.

### **MISSION**

### **Policy Number 0100**

The mission of the Fairfield Public Schools, in partnership with families and community, is to ensure that every student acquires the knowledge and skills needed to be a lifelong learner, responsible citizen, and successful participant in an ever changing global society through a comprehensive educational program.

### **LONG-TERM GOAL**

### **Policy Number 0110**

Fairfield Public Schools will ensure that every student is engaged in a rigorous learning experience that recognizes and values the individual and challenges each student to achieve academic progress including expressive, personal, physical, civic, and social development. Students will be respectful, ethical, and responsible citizens with an appreciation and understanding of global issues. Student achievement and performance shall rank among the best in the state and the nation.

On July 9, 2015, the Board of Education approved a District Improvement Plan that details the specific actions to be implemented over the next five years to achieve the Mission.

**THE PROJECT**

In conjunction with the Fairfield Board of Education’s Long Range Facilities Plan, the Board proposes a construction project at Holland Hill Elementary School to alleviate overcrowding of the facility due to continuing enrollment increases and to address long-term facility needs. The essential elements of this proposed construction project is to bring Holland Hill to a 504 capacity and is to include the following elements:

- Elimination of relocatable classrooms
- Update facility to current building and fire code requirements
- Install a new fire sprinkler system throughout the facility
- Install new HVAC fresh air and air conditioning system throughout the facility
- Addition of:
  - one general music classroom
  - one instrumental music classroom
  - five general classrooms
  - sufficient space for one computer lab
  - sufficient space for one shared classroom for gifted program instruction and math/science program
  - one special education classroom
  - a conference room
  - a copy room
  - an office for the Spanish teacher and the Social Worker
- Expansion of the cafeteria/kitchen to accommodate an enrollment of 504 (including a second serving line)
- Addition of storage, custodial work spaces and toilet facilities as required by the expanded facility layout
- Expansion/reconfiguration of the parking lots for staff and visitors
- Addition of a secure entry vestibule and increased security measures
- Addition of a new server room (MDF/IDF)
- Replacement/addition of lockers to accommodate increasing enrollment
- Install sinks in new classrooms

**ENROLLMENT DATA AND PROPOSED PROJECT CAPACITY**

HOLLAND HILL ELEMENTARY SCHOOL	YEAR								
	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Enrollment	405*	438	431	425	424	419	414	410	411
Capacity	315	315	315	504	504	504	504	504	504

\*October 1, 2015 actual enrollment

*The following specifications apply to the new and renovated spaces only, not to the entire building.*

## **BUILDING SYSTEMS:**

### **Envelope**

- Roofing systems shall be multi-ply systems (no single membrane systems) 20 year warranty (no dollar limit/edge to edge)
- Exterior envelope materials shall be consistent and compatible with the existing building façade materials in size, shape, color and texture
- Construction details of exterior elements shall be consistent and compatible with the existing building façade details

### **Security/Safety**

- Reliable internal and external communication should be available between/among all areas of the facility to the degree consistent with safety and security plans
- Electronic security shall be provided which will include color video cameras (interior and exterior) integrated into the existing IP security camera system..
- Door hardware – District Standards – Schlage/Von Duprin/LCN
- Exterior doors to have continuous hinges
- Locks – Everest ‘D’ Keyway (interior), Primus Keyway (exterior) – Key into existing building system – Master key facility (new and old locks)
- All spaces to be capable of interior lockdown (without re-entry into the corridor)
- Doors – Narrow vision lites (for restricted line of sight into classroom during lockdowns)
- Exterior doors used by staff and students for exterior functions shall have Prox card access integrated into the existing card access system.
- Tactile signage (new spaces) for room identification (including room numbers) and directions
- Evacuation signage with directional maps
- Exterior signage (for directions and site identification)
- Provide adequate site lighting
- Tight weave room darkening shades on all exterior windows (new and existing)

### **Code**

- Abate any hazardous material – encapsulation is not acceptable (exception: PCB impacted substrates)
- ILSM – Interim Life Safety Measures for working in an occupied building

(Also see SCG Filing Requirements)

## **INTERIOR BUILDING ENVIRONMENT:**

### **Mechanical Systems**

- Separate independent commissioning of Mechanical/Electrical/Plumbing (MEP) systems to include an air flow balancing contractor hired directly by the building committee (not the construction manager or design team) and reporting directly to the building committee and the Fairfield Public Schools Central Office
- Lighting fixtures – standard type(s), ease of maintenance, coordinated with presentation stations (projectors & projection surfaces)
- Low voltage systems to be designed to district standards
- Proper shutoff and backflow valves located to provide easy and quick access
- Upgrade telephone system as appropriate for the new additional space
- Wall clocks in all spaces. Clocks to battery operated and synchronized via radio signal with U.S. Atomic Clock.

### **Interior Spaces - General**

- Kitchen update appropriate for enrollment– Review equipment (size, condition, etc.), storage space, serving lines, etc including but not limited to:
  - Storage for dry goods
  - Walk-in Refrigerator
  - Walk-in Freezer
  - Washer & Dryer
  - Serving lines with power and network access
- Ceiling systems – standard sizes 2x2 or 2x4, standard tiles, wide grids 9/16”, no strange patterns, consistent choices
- Millwork – solid surface countertops/plastic laminate cabinets/wire pull handles/euro-hinges
- Flooring –VCT or other easily mopped finish in classrooms, corridors, etc.
- Student lavatories and staff toilet rooms meeting district standards to be located at convenient locations for students and staff
- MDF/IDF room (in new addition) to be:
  - large enough to allow front and rear access to all racked equipment
  - located in non-classroom spaces
  - provided sufficient ventilation, cooling and power to support equipment growth
  - provided with security alarms
- Built in shelving, cabinets and countertops sufficient for instructional material storage
- Built in shelving, cabinets and countertops sufficient for office material storage (lockable)
- FF&E – New Spaces – Appropriate furniture and equipment to accommodate the intended use of the room/space inclusive of student desks and/or tables, chairs bookcases, storage, teacher desks and chairs, learning centers for individual and/or group instruction, computer tables and chairs, area carpets, room darkening shades, appropriate projection surface for use with multimedia projector, wall pads, basketball hoops, fire resistant file cabinets, tackboards, tackstrips, whiteboards, flags, clocks, pencil sharpeners, paper towel dispensers, soap dispensers, etc.

## **TECHNOLOGY:**

- An essential component of this project is to provide electronic network access to every segment of the new building (addition). All instructional areas and support facilities shall be provided with:
  - local and wide-area wired and wireless networks
  - digitally delivered TV connectivity
  - digitally integrated internal broadcast capability
  - wiring for interactive whiteboard technology
- Each teaching space shall be provided with connectivity to multimedia projection systems with amplification and speaker systems to support audio as per current district standards.
- All wiring to be CAT 6 or better and certified. Each patch panel shall be labeled with the room number, and jack number and each jack labeled with MDF/IDF closet number, panel and punch down location.
- Charging stations for mobile computer labs
- Technology Network Space – server room, wiring closets, dedicated area for head-end equipment including extended demarcation points provided by the suppliers to the server room for all external connections.

(Also see INTERIOR BUILDING ENVIRONMENT – Interior Spaces)

## **CDAS DCS-SCG FILING REQUIREMENTS (for Reimbursement):**

This project shall be designed so that it can be filed with the Connecticut Department of Administrative Services – Division of Construction - Office of School Construction Grants under at least the following project types:

- Extension of Facility
- Alteration of Existing Facility
- Code Violation (Hazardous Material abatement)

As required by C.G.S. 10-291 a Phase I environmental site assessment in accordance with ASTM Standard #1527 shall be conducted prior to the approval of architectural plans.

## **COMMUNITY USES:**

Holland Hill Elementary School does not contain or host space(s) for other town departments or outside firms. The building is used exclusively as a elementary school. The building facilities are available to the public on a reservation basis when the building is not in use (nights and weekends). Some of these uses include among others:

- Parent Teacher Association (PTA) meetings and events
- Cub Scouts
- Girl Scouts
- Various school clubs
- Civic group meetings

Holland Hill Elementary School is used as a polling place.



**TO:** Dr. David Title, Superintendent of Schools  
Fairfield Public Schools

**FROM:** Michael Zuba, AICP  
Milone & MacBroom, Inc.

**DATE:** January 11, 2016

**RE:** Holland Hill School Projections  
MMI #5785-01-1

## Holland Hill School Projections

Milone & MacBroom, Inc. (MMI) was hired by Fairfield Public Schools to conduct 10-year enrollment projections for the district and its 11 elementary schools as part of a larger school racial balance and redistricting plan. The State of Connecticut requires 8-year enrollment projections as a critical factor for determining reimbursement eligibility and project size for school construction projects. This memo describes the methodology used to create the enrollment projections and presents enrollment projections by grade and by year for Holland Hill School.

## Methodology

MMI uses the cohort-survival method of projecting enrollment, which is a standard method and is accepted by the State Department of Education for School Construction Projections (CGS 10-283). The cohort-survival methodology relies on observed data from the recent past in order to predict the near future. The methodology works well for stable populations, including communities that are growing or declining at a steady rate. It is important to remember that the basic premise of the cohort-survival methodology is that the recent past is a good predictor of the near future. MMI obtained Town of Fairfield birth records from 2003 to 2014 from the Connecticut Department of Public Health. These births were address geocoded, assigned to their resident elementary school, and used to predict future kindergarten enrollment for each elementary school. Projections up to 2019-20 are most accurate because they rely on known birth data. Births for the years 2015 to 2020 (corresponding with the kindergarten classes of 2020 to 2025) were projected using multiple regression and were based on local unemployment rates and home sales. By 2020, it was projected that town-wide births would increase by 11% over their current levels to 628 births.

Enrollment projections assumed that the outplacement of students to Burr Elementary School and Dwight Elementary School will continue at current rates. As of the 2015-16 school year, 20 students who lived within the Holland Hill attendance zone were enrolled at Burr Elementary School or Dwight Elementary School.

### Enrollment Projections

Over the next 3 years, three small kindergarten classes will enter Holland Hill School, corresponding with the record low birth years of 2011 to 2013. As these small grade cohorts matriculate through the school, enrollment will decline to 385 students by the 2018-19 school year. However, this decline is only temporary as births have begun to rebound beginning in 2014. Enrollment is projected to increase beginning in 2019-20 as kindergarten class sizes return to their historic levels (between 65 and 70 students). Holland Hill sees in-migration through all grade levels, resulting in enrollment growth as classes matriculate to the higher grades. Rebounding birth rates, in-migration, and the graduation of the small birth classes beginning in 2021-22 will result in moderate enrollment growth beginning at the tail end of the projections. By 2024-25, Holland Hill is projected to have an enrollment of 441 students, an 8% increase over today's levels.

Table 1. Holland Hill School Enrollment Projections: 2015-16 to 2025-26

School Year	Grade						Total K-5
	K	1	2	3	4	5	
2015-16	67	67	58	75	78	62	407
2016-17	47	69	70	61	79	78	404
2017-18	59	48	71	74	65	80	397
2018-19	57	60	50	75	78	65	385
2019-20	68	59	62	53	79	79	400
2020-21	64	70	61	66	56	79	396
2021-22	66	65	72	65	70	57	395
2022-23	67	67	68	76	69	71	418
2023-24	68	68	70	72	81	69	428
2024-25	69	69	71	74	76	82	441
2025-26	69	70	72	75	79	77	442

Source: Milone & MacBroom projections for Fairfield Public Schools

Figure 1. Holland Hill School Enrollment Projections: 2015-16 to 2025-26



Source: Milone & MacBroom

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

Very truly yours,

MILONE & MACBROOM, INC.

Michael Zuba, AICP, Associate  
Director of Planning

5785-01-1-j1116-memo

**A RESOLUTION APPROPRIATING \$1,240,000 FOR THE COSTS ASSOCIATED WITH THE EXPANSION AND RENOVATION OF HOLLAND HILL ELEMENTARY SCHOOL AND AUTHORIZING THE ISSUANCE OF BONDS TO FINANCE SUCH APPROPRIATION.**

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**Resolved:**

1. As recommended by the Board of Education, Board of Selectmen and Board of Finance, the Town of Fairfield hereby appropriates One Million Two Hundred Forty Thousand and 00/100 (\$1,240,000.00) Dollars for costs associated with the planning and design of the expansion and renovation of the Holland Hill Elementary School which costs include architectural, design, specialty consultants, environmental, engineering, land tests and other preconstruction costs and other costs that are related thereto, and costs associated with the installation of two temporary classrooms to be located at Holland Hill Elementary School until the expansion and renovation is complete (collectively, the “Project”) The above costs include the costs described on Exhibit A hereto.
2. To finance such appropriation, and as recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield shall borrow a sum not to exceed One Million Two Hundred Forty Thousand and 00/100 (\$1,240,000.00) Dollars and issue bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing the appropriation for the Project.
3. The Board of Selectmen, the Treasurer and the Fiscal Officer of the Town are hereby appointed a committee (the “Committee”) with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of conversion, if any, from one interest rate mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, including Chapter 748 (Registered Public Obligations Act), and Chapter 109 (Municipal Bond Issues) to issue, sell and deliver the bonds and, further, shall have full power and authority to do all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange

Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectman and Treasurer or Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing agreement, standby marketing agreements, bond purchase agreement, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.
5. The bonds may be designated "Public Improvement Bonds," series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than twenty (20) annual installments of principal, the first installment to mature not later than three (3) years from the date of issue and the last installment to mature not later than twenty (20) years therefrom. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.
6. The Committee is further authorized to make temporary borrowings as authorized by the General Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and limitations as provided by the Connecticut General Statutes. Notes evidencing such borrowings shall be signed by the First Selectman and Treasurer or Fiscal Officer, have the seal of the Town affixed, which signing and sealing may be by facsimile as provided

by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel, and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates, form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the General Statutes and shall have all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

7. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Project from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.
8. The First Selectman and Fiscal Officer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of bondholders to provide information on an annual or other periodic basis to the Municipal Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.
9. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Connecticut General Statutes and the laws of the United States.
10. The First Selectman and other Town officials are authorized to seek grants and other contributions for the costs of the Project. Any such grants or other contribution received prior to the issuance of the Bonds authorized herein shall be applied to the costs of the Project or to pay at maturity the principal of any outstanding bond anticipation notes issued pursuant to this Resolution and shall reduce the amount of the Bonds that can be issued pursuant to this Resolution. If such grants and other contributions are received after the issuance of the Bonds, they shall be applied to pay the Bonds or as otherwise authorized by the Board of Selectmen, Board of Finance and Representative Town Meeting provided such application does not adversely affect the tax exempt status of the Bonds.

**Exhibit A**

**Holland Hill Elementary School Bond Resolution**

**Description of Costs**

Architect/Engineers/Consultants

- Structural Engineer
- MEP Engineer
- Civil Engineer
- Landscape Architect
- Interior/Furniture Designer
- Lighting Consultant
- Traffic & Signage Consultant
- Audio/Visual Consultant
- Information Technology Consultant
- Kitchen Consultant
- Commissioning Agent
- Cost Estimator
- 

Environmental/Haz-Mat Consultant

Surveyor

Geotech Engineer

LEED/Green Building Consultant

Construction Management/Owner Representative

Legal

Expenses

Two Temporary (portable) Classrooms

- Setup & Takedown
- Lease Payment
- FF&E
- IT & Security Infrastructure

Contingency & Escalation



## **Fairfield Woods Middle School**

### **Partial Roof Replacement**

**\$ 3,000,000**

Background: Eighteen roof areas are at the end of their useful lives and in need of replacement. The roofs are original to the 1995 installation and are out of warranty as of 2015. The roof areas in this request are failing at a rapid pace and normal roof preventative maintenance techniques are no longer working. This request is for funding the replacement of these roofs.

Purpose & Justification: The condition of these roof areas is declining rapidly and the extensive leaks are increasing in frequency and severity. Replacement of these roofs now will prevent the need to replace them as an emergency thus preventing disruption to the school's learning environment.

Detailed Description: The expenditure would cover the total cost and removal of the 18 roof areas down to the existing roof deck and installation of a new roofing system. These funds would also cover design, bidding and construction administration costs, as well as a contingency for unforeseen conditions for the roof deck that might be uncovered during the construction demolition activities.

Estimated Cost: The cost of this funding request is \$3,000,000. This number is based on similar roof replacement projects undertaken in the school system and a probable construction cost estimate provided by Hoffmann Architects.

Long Range Costs: Roof replacements will reduce maintenance costs on the old roofs as well as produce energy savings through the use of a better insulated roof system. This roof replacement is part of the Fairfield Public Schools Facilities Plan 2013-2024 and the anticipated life of this upgrade is 20+ years with our roof preventative maintenance program.

Demand on Existing Facilities: This project would reduce the maintenance costs for roof repairs, interior acoustical ceiling repairs, and other school equipment damage from leaks. This project will increase energy efficiency in the building.

Security, Safety and Loss Control: This project would enhance safety and loss control by drastically reducing the risk of a roof failure while school is in session.

Environmental Considerations: This project would greatly reduce greenhouse gases by increasing the energy efficiency of the building thus reducing energy consumption. This roof would also qualify for a solar panel installation similar to FWHS, FLHS and Dwight, currently under contract and under construction/installation.

Funding, Financing & SDE Reimbursement: This project would not proceed without funding approval. There are no State or Federal regulations that require this project to be undertaken. This project is eligible for reimbursement through the State Department of

Education, Bureau of School Facilities. The 2015-2016 reimbursement for Fairfield is 25.36%. We estimate that we will receive approximately \$760,800 in eligible State reimbursement for this project.

Schedule, Phasing & Timing: The schedule is to have construction work performed during the summer of 2016.

Other Considerations: The work will be bid out by the Town Purchasing Department and will be performed by outside contractors. This does require the formation of a Building Committee to qualify for state reimbursement.

Alternates to the Request: The alternate to this request is to do nothing. This alternative will delay this needed replacement and further delay other similar projects scheduled in the BOE future planning.

# Fairfield Woods Middle School

**Partial Roof Replacement**

**\$ 3,000,000**

## Details

Licensed contractor to provide labor and materials  
Prepared by: Silktown Roofing

### **Breakdown:**

Set-up safety for associates to perform their scope of work, and to protect the occupants of the property.

Remove the existing roofing system down to the existing metal deck.

Install new pressure treated wood blocking to the height of the new perimeter edges.

Install new Polyisocyanurate insulation including 1/4" per foot tapered system with an average R-25 value to be in compliance with 2014 ASHRAE guidelines.

Install new two-ply SBS Modified Bitumen roofing membrane system in cold applied adhesive with a granulated cap sheet.

Install all flashings per manufacturer's specification.

Remove and replace existing drain bowl assemblies.

Install new extruded metal edges with Kynar coated color cover plate that has been pretested and approved per ANSI -SPRI ES-1 specifications. (Color will be selected from standard color selections.)

Install new expansion joints to replace existing.

Fabricate and install new counter flashings as needed for proper termination.

Clean up and dispose of all debris from the above scope of work.

Provide a 20-year No Dollar Limit (NDL) warranty that includes the cost of both labor and material to repair any leaks or material failures during the warranty period.

**\$ 2,867,508**

**Breakdown:**

Silver/Petrucci Architects will provide the following professional services related to the scope of work described in this proposal:

Review original Contract Documents and previous reports as such documents relate to conditions described in the Scope of Work and are supplied to Silver/Petrucci Architects by the Town of Fairfield Public Schools.

Visit the site to verify existing conditions and construction details. Coordinate with a Contractor retained by The Town of Fairfield Public Schools to perform exploratory openings so as to examine concealed conditions.

Based upon the results of Silver/Petrucci Architects' field verification activities and the established scope of work, provide a proposed roof replacement system and scope of work for review and approval by the Fairfield Public Schools and Building Committee.

Meet with the Office of School Facilities for a pre-review evaluation meeting to review requirements for submission of the project.

Based on the agreed upon scope of work, prepare Contract Documents consisting of drawings and specifications, setting forth in detail the requirements for construction of the project.

Meet with the Office of School Facilities to review the 100% Contract Documents (Plan Completion Test) for comments and approval.

Respond to Office of School Facilities comments as required.

Assist in the preparation of the necessary bidding information, bidding forms, conditions of the Contract and Form of Agreement between Owner and Contractor.

Assist the Town of Fairfield Public Schools in obtaining bids.

Prepare an agenda for a pre-bid conference at the site.

Conduct a pre-bid conference at the site.

Prepare minutes from the pre-bid conference.

Respond to contractor questions and prepare addenda, as necessary.

Assist the Town of Fairfield Public Schools in evaluating bids and in awarding construction contract.

Conduct a meeting with a representative from the Fairfield Public Schools, Building Committee, and the Contractor prior to the commencement of the work, to review the Contractor's proposal for compliance with the requirements of the Contract Documents.

Review and take appropriate action on Contractor's submittals such as shop drawings, product data and samples, to establish their conformance with the design concept expressed in the Contract Documents; forward to the Town of Fairfield Public Schools, for review and record, written warranties and related documents required by the Contract Documents and assembled by the Contractor.

Visit the site four (4) times during construction to become familiar with the progress and quality of work and to determine if the work is being performed is in general compliance with the Contract Documents.

Conduct meetings in conjunction with site visits to assess the progress of the work. Prepare field observation reports following site visits to document progress and quality of the Contractor's work.

Authorize minor changes in the work if they are necessary and do not involve adjustment to the contract sum or extension of the contract time.

Review and certify amounts due the Contractor.

Visit the site to develop a punch list and again to conduct a final inspection with the Manufacturer's representative.

Determine the date of final completion.

Certify Contractor's requisition for Final Payment based upon the final inspection indicating the work is in general compliance with the requirements of the Contract Documents.

\$ 77,000

Contingency  
Prepared by: Fairfield Public Schools Central Office

**Breakdown:**

Carry a contingency for unforeseen conditions during demolition of old roofing materials down to the existing roof deck.

\$ 55,492

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**Total**

**\$ 3,000,000**



**FAIRFIELD**  
PUBLIC SCHOOLS

**Aerial Infrared Roof Moisture  
Survey of April 29, 2015**



**Fairfield Woods  
Middle School**

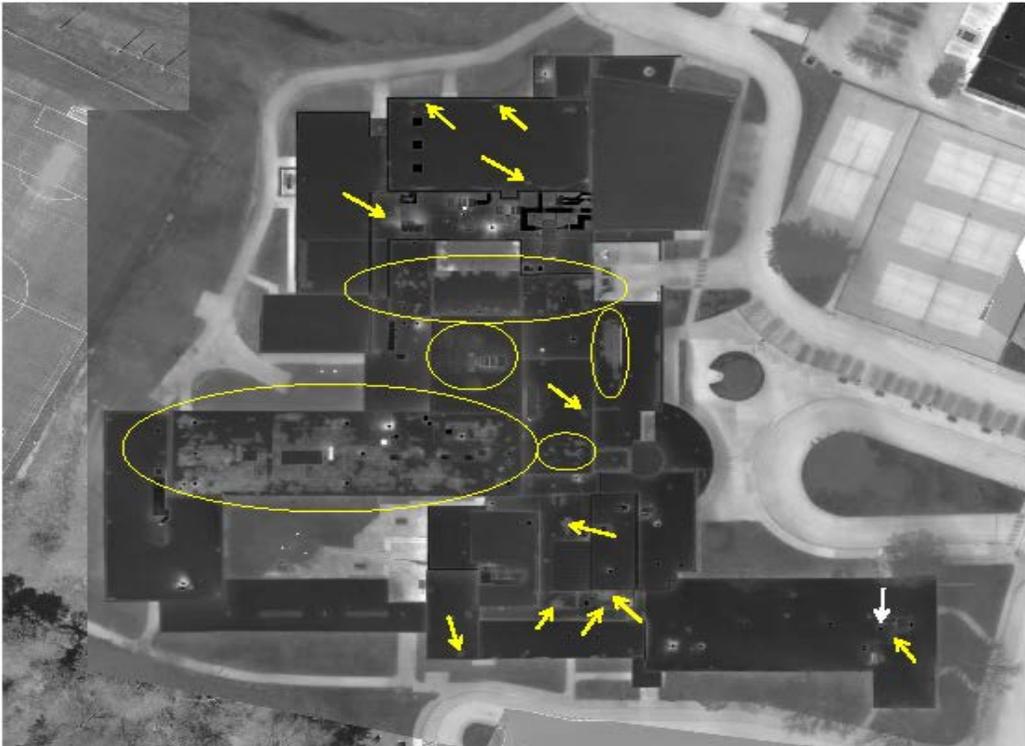


**FAIRFIELD**  
PUBLIC SCHOOLS

**Aerial Infrared Roof Moisture  
Survey of April 29, 2015**



**Fairfield Woods  
Middle School**



FWMS Roof



Fairfield Woods Middle School  
Deteriorating Roof Conditions



FWMS Roof



Fairfield Woods Middle School  
Deteriorating Roof Conditions “Close-up”



**A RESOLUTION APPROPRIATING \$3,000,000 FOR THE COSTS OF REPLACING THE ROOF AT FAIRFIELD WOODS MIDDLE SCHOOL AND AUTHORIZING THE ISSUANCE OF BONDS TO FINANCE SUCH APPROPRIATION.**

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**Resolved:**

1. As recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield hereby appropriates the sum of Three Million (\$3,000,000) Dollars to fund the costs, inclusive of design, oversight, engineering, environmental and finance, associated with the replacement of the existing roof at Fairfield Woods Middle School with a new roof (the "Project").
2. To finance such appropriation, and as recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield shall borrow a sum not to exceed Three Million (\$3,000,000) Dollars and issue its general obligation bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing the appropriation for the Project.
3. The Board of Selectmen, the Treasurer and the Fiscal Officer of the Town are hereby appointed a committee (the "Committee") with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of conversion, if any, from one interest rate mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, including Chapter 748 (Registered Public Obligations Act), and Chapter 109 (Municipal Bond Issues) to issue, sell and deliver the bonds and, further, shall have full power and authority to do all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of

bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectman and Treasurer or Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing agreement, standby marketing agreements, bond purchase agreement, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.
5. The bonds may be designated "Public Improvement Bonds," series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than twenty (20) annual installments of principal, the first installment to mature not later than three (3) years from the date of issue and the last installment to mature not later than twenty (20) years therefrom. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.
6. The Committee is further authorized to make temporary borrowings as authorized by the General Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and limitations as provided by the Connecticut General Statutes. Notes evidencing such borrowings shall be signed by the First Selectman and Treasurer or Fiscal Officer, have the seal of the Town affixed, which signing and sealing may be by facsimile as provided by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel, and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates, form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the General Statutes and shall have

all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

7. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Project from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.
8. The First Selectman and Fiscal Officer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of bondholders to provide information on an annual or other periodic basis to the Municipal Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.
9. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Connecticut General Statutes and the laws of the United States.
10. The First Selectman and other Town officials are authorized to seek grants and other contributions for the costs of the Project. Any such grants or other contribution received prior to the issuance of the Bonds authorized herein shall be applied to the costs of the Project or to pay at maturity the principal of any outstanding bond anticipation notes issued pursuant to this Resolution and shall reduce the amount of the Bonds that can be issued pursuant to this Resolution. If such grants and other contributions are received after the issuance of the Bonds, they shall be applied to pay the Bonds or as otherwise authorized by the Board of Selectmen, Board of Finance and Representative Town Meeting provided such application does not adversely affect the tax exempt status of the Bonds.

