Fairfield Board of Education
Proposed
Capital Non-Recurring Projects
2015-2016

Dwight Roof

Jennings Boiler

FLHS Turf Field

December 10, 2014

Dear Board of Education Members:

This booklet provides an overview and backup material for all of our proposed 2015-2016 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 roof replacement and the Jennings Elementary boilers, have long been part of the facilities planning updates we have provided to the Board and the Town over the past three years. The third, the Fairfield Ludlowe High artificial turf field, has had very heavy sports activity over the past ten years and professional tests have identified that it is time to replace this field. The fourth project is for the upgrading of our security infrastructure in all schools in alignment with the Fairfield Police Department's study of our buildings.

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
2015-2016
Capital Non-Recurring Projects

Location	Project	Estimated Cost	Page
Dwight Elementary	Partial roof replacement	$ 1,232,342	1
Jennings Elementary	Replace two 1966 boilers	382,000	13
Fairfield Ludlowe High	Replace artificial turf field	650,000	19
Systemwide	Security infrastructure	3,222,428	31
	Total	$ 5,486,770	

Dwight Elementary School

Roof Replacement (except Shingled Roof) $ 1,232,342

Background: Four roof areas are at the end of their useful lives and in need of replacement. The roofs are original to the 1991 installation and are out of warranty as of 2011. This request is for funding the replacement of these roofs.

Purpose & Justification: The condition of these roof areas is declining and 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 10 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 that might be uncovered during the construction activities.

Estimated Cost: The cost of this funding request is $1,232,342. This number is based on similar replacement projects undertaken in the 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 2013-2023 and the anticipated life of this upgrade is 20+ years.

Demand on Existing Facilities: This project would reduce the maintenance costs for roof repairs and 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 qualify for a solar panel installation similar to FWHS and FLHS.

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 2014-2015 reimbursement for Fairfield is 26.07%. We estimate that we will receive approximately $320,000 for this project.

Schedule, Phasing & Timing: The schedule is to have work done this summer (2015).

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. A recent study of our elementary roofs that resulted in extending the life of four school roofs found that the Dwight roof condition is so poor that it did not qualify for this program.

Dwight Elementary School

Partial Roof Replacement **$ 1,232,342**

Details

Licensed contractor to provide labor and materials
Prepared by: Tecta America

Breakdown:

Set-up safety for our 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.

Confirm and/or secure the existing metal deck per Factory Mutual guidelines 1-28 specifications.

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

Install new Polyisocyanurate insulation including ¼" 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. (Roofing system meets the current code for uplift pressures - FM 1-90 approved system.)

Install all flashings per manufacturer's specification.

Remove and replace existing drain bowl assemblies.

Install new extruded medal edges with Kynar coated color cover plate that has been pre tested and approved per ANSI -SPRI ES-1 specifications. (Color will be selected by owner 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 owner with 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.

$ 1,178,402

Consultant for Professional Services
Prepared by: Hoffmann Architects

Breakdown:

Hoffmann 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 Hoffmann 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 Hoffmann 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.

This page left intentionally blank

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 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.

$53,940.00

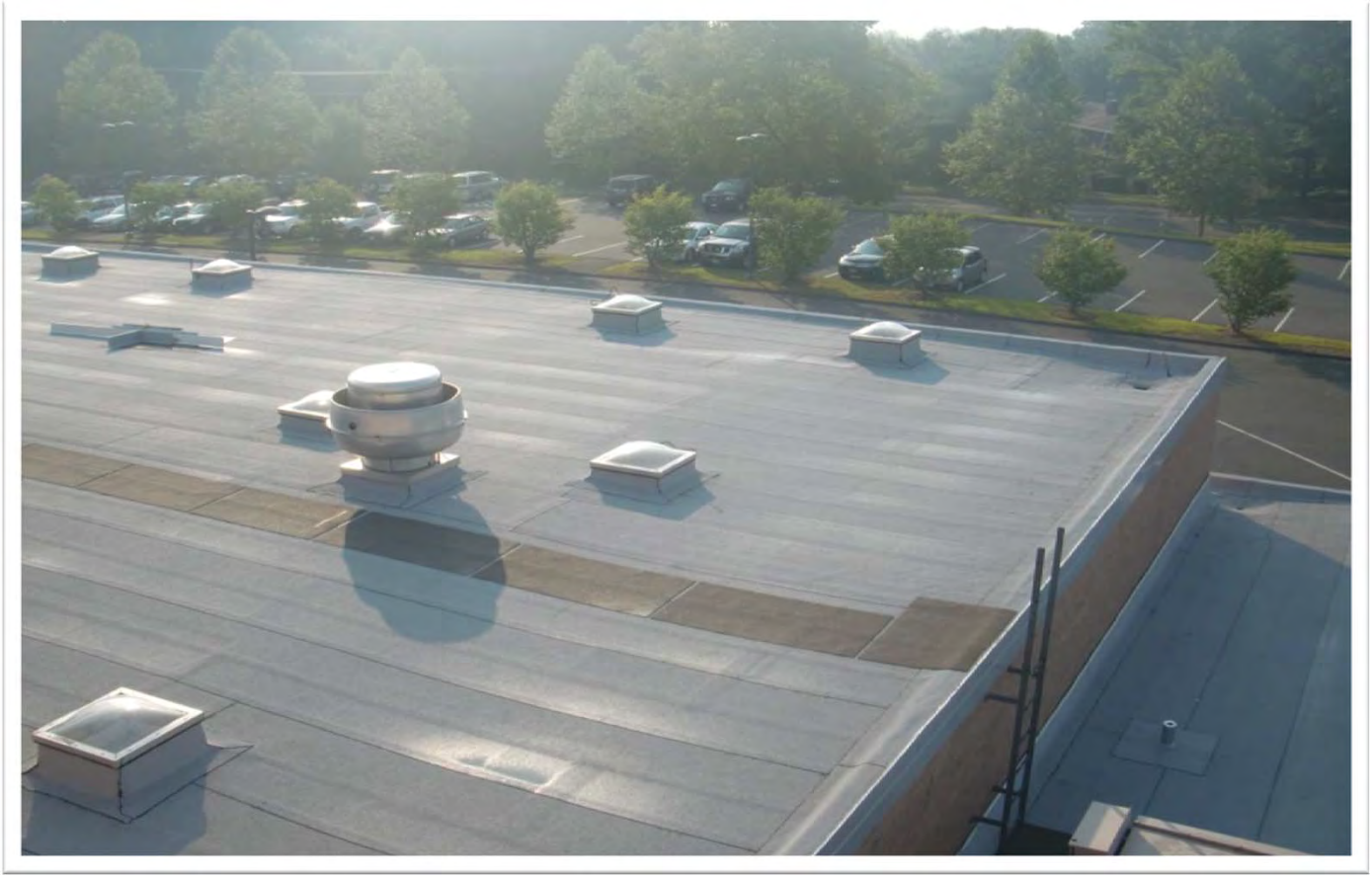
Total **$ 1,232,342**

Old 1991 roof system showing failures

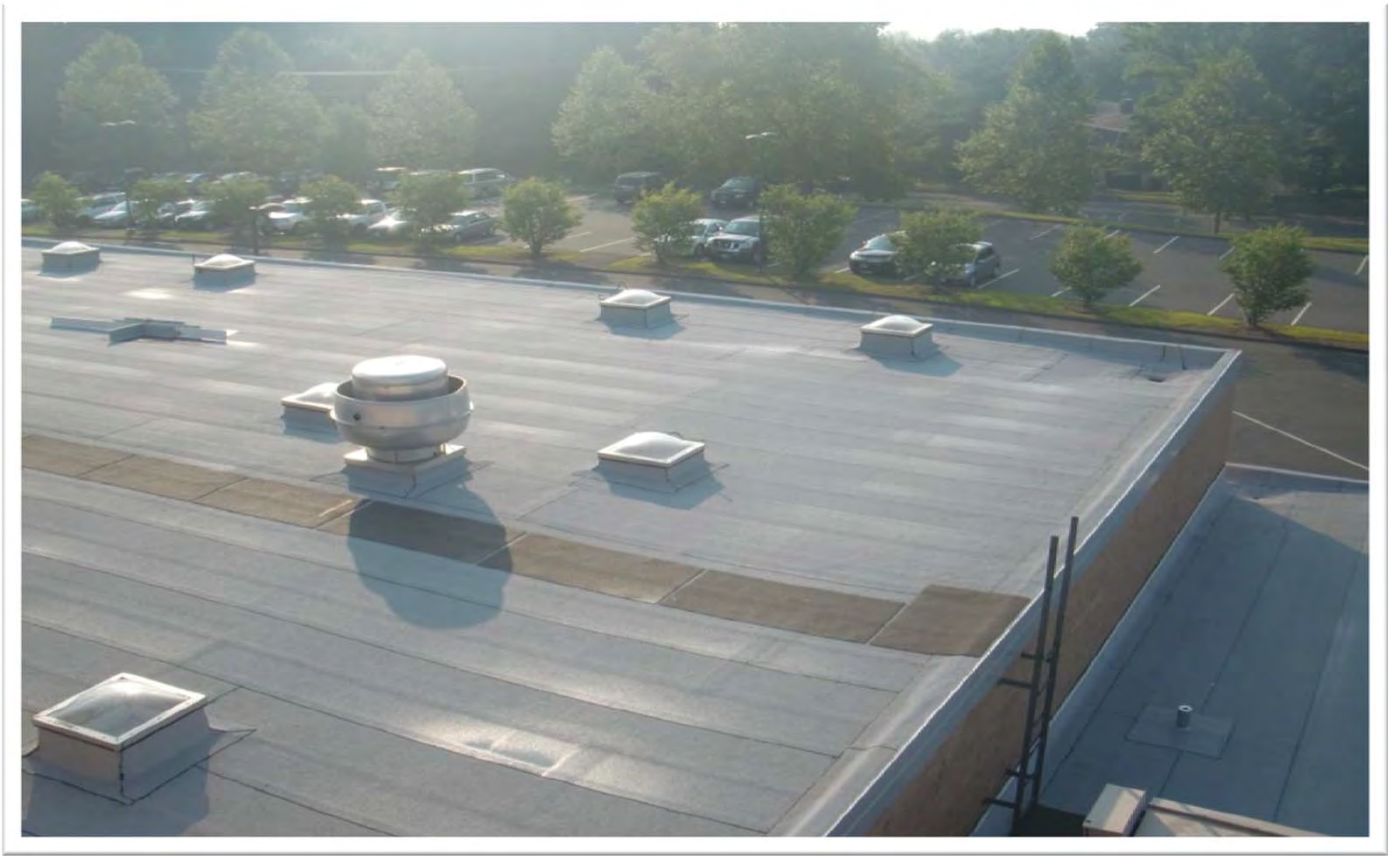
Old roof membrane failures and patches around skylight

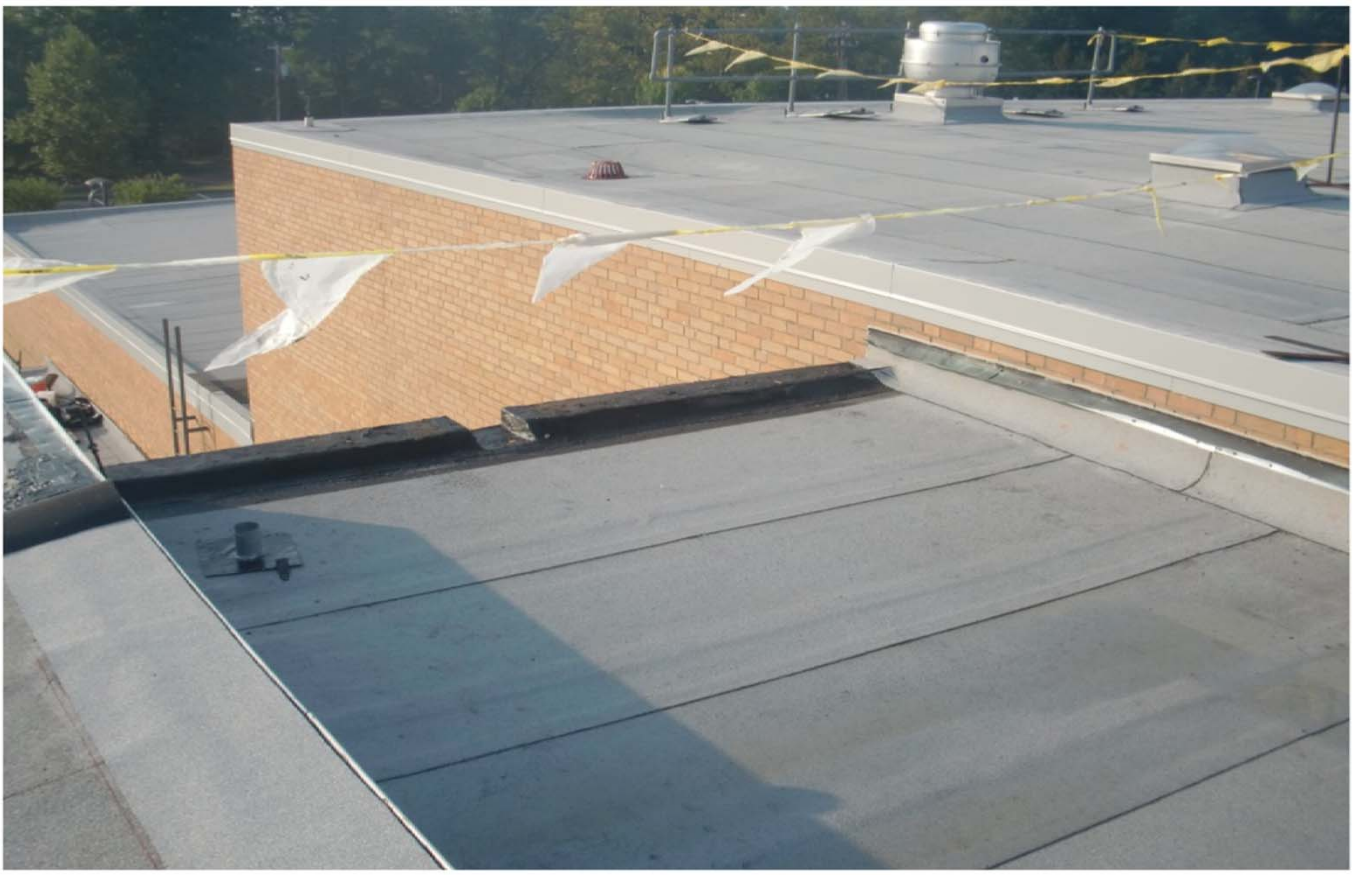
More roof patches and ponding of water failures

Roof pitch pocket failures



New 2013 roof system at Fairfield Warde High School





New 2013 roof system at Fairfield Warde High School

Jennings Elementary School

Boiler Replacement $ 382,000

Background: The boilers are originals from 1966 and are at the end of their useful lives. This request is for funding the replacement of the two existing boilers with the installation of two new high-efficiency condensing gas boilers and one cast-iron boiler with dual fuel capabilities.

Purpose & Justification: The condition of the existing boilers is poor and new boilers would provide a much higher efficiency rating for the school and prevent emergency boiler failure.

Detailed Description: The 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 $382,000. This number is based on similar boiler replacement projects undertaken in the system and estimates provided by contractors. This includes abatement and air sampling consultant/monitoring.

Long Range Costs: Boiler replacements will reduce maintenance costs on the old as well as produce energy savings through the use of higher efficiency units. We anticipate the life of this upgrade is 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 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 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.

Jennings Elementary School

Boiler Replacement **$ 382,000.00**

Details

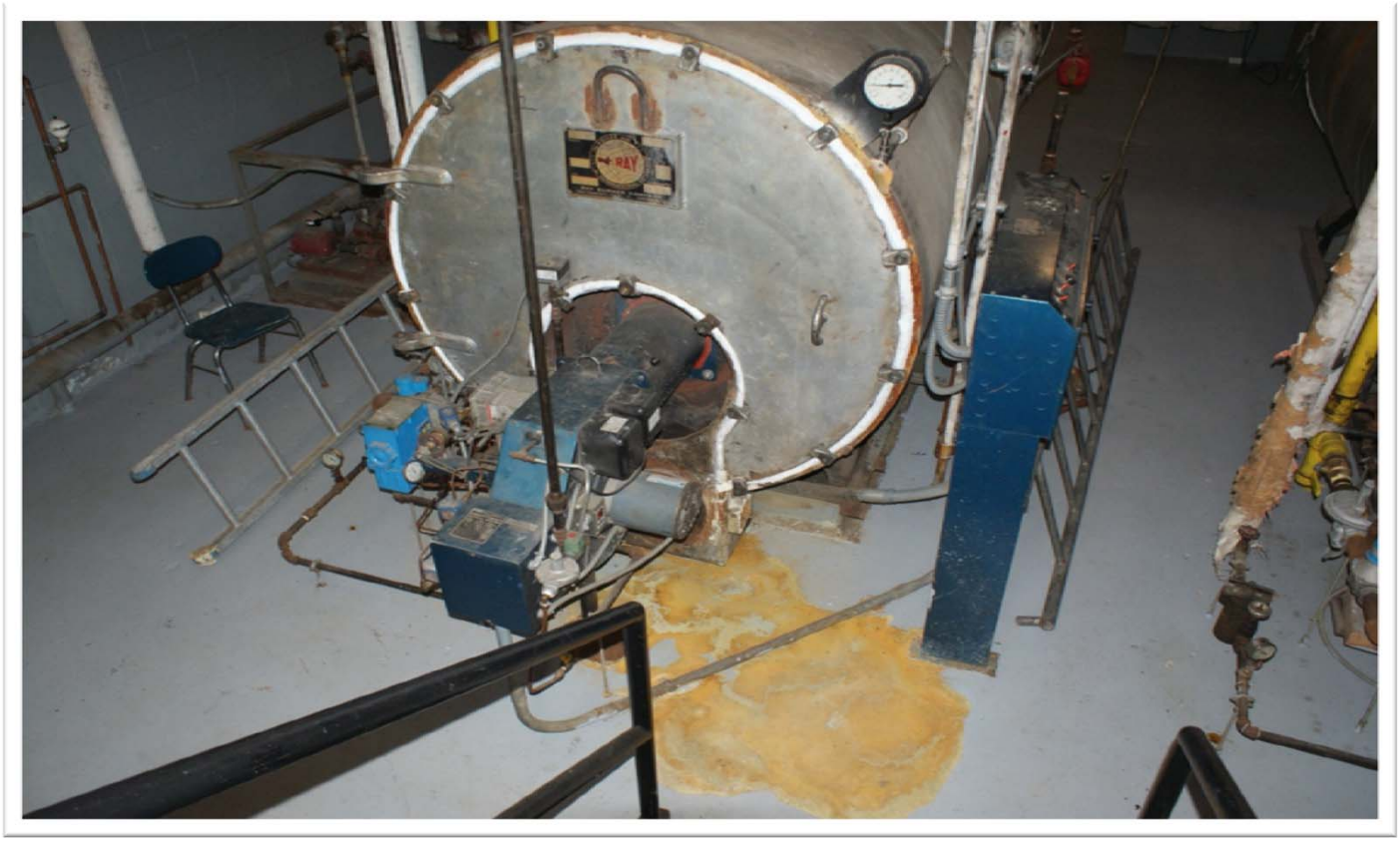
Licensed contractor to provide labor and materials
Prepared by: Connecticut Combustion, Inc.

Breakdown:

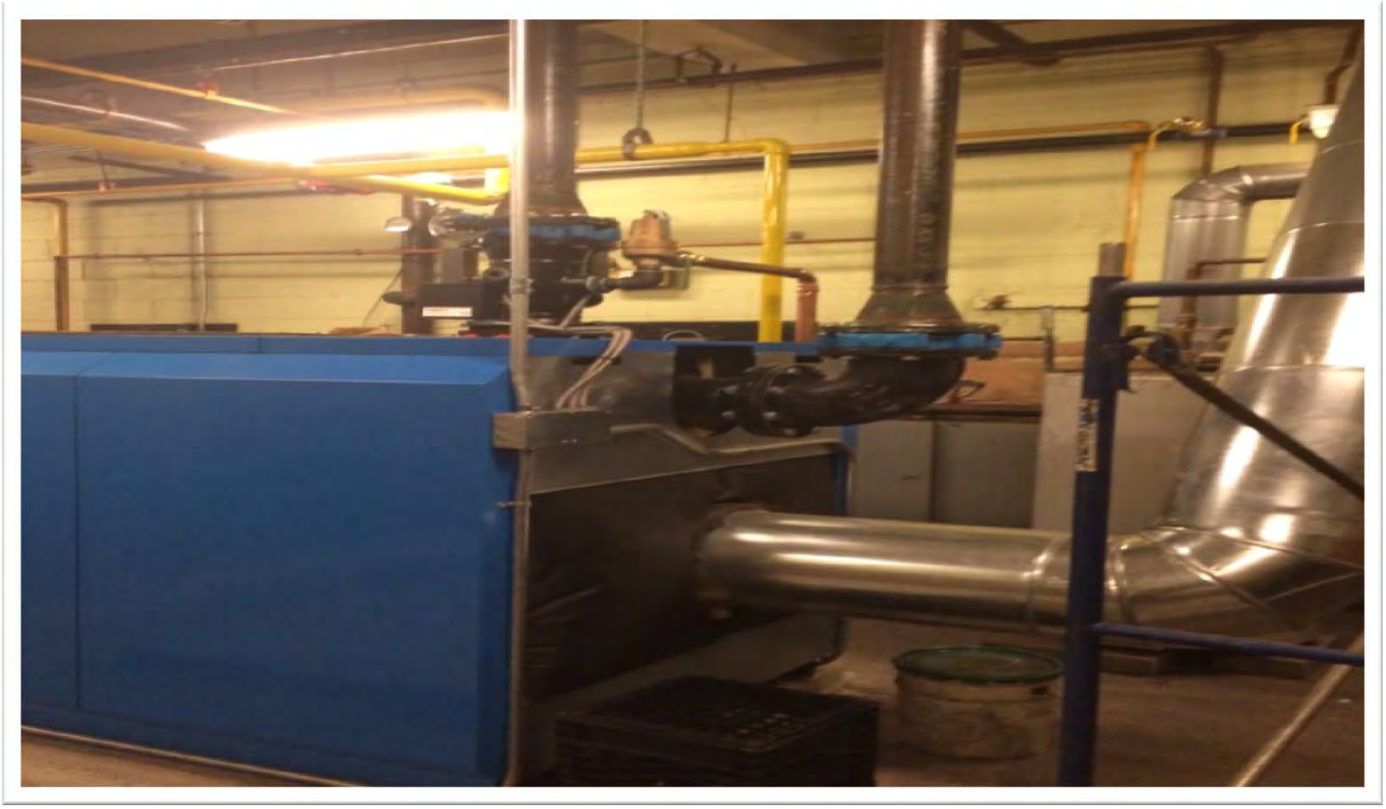
Disconnect existing piping, electrical and flue.
Asbestos abatement of mechanical room.
Mechanical demolition to remove existing boiler, pumps, and tanks.
Mount boilers on new concrete pads.
Furnish and install two (2) new Camus condensing boilers with gas fired burner.
Furnish and install one (1) new Buderus non-condensing boilers with dual fuel burner.
Furnish and install two (2) 12" Metal-Fab PIC boiler flues. New flues to go through roof.
Install two (2) expansion tanks and one (1) air separator.
Furnish and install two (2) primary pumps and connect to existing piping.
Furnish and install VFD's on primary pumps.
Furnish and install new oil booster pumps and connect to existing oil piping.
Furnish and install one (1) A.O. Smith hot water heater with auxiliary water storage tank and connect to existing piping.
Gas piping to new boiler units. Includes new regulators.
Hot water piping from new boilers and connect to existing 6" header/Mains. All piping 3" and larger to be welded steel.
Piping insulation on new, existing, and abated pipe.
Controls and control wiring; based on Johnson Controls.
Electrical as required, based on tying into existing boiler and pump feeds.
Roofing work for two new boiler flues through roof.
Provide core boring through concrete roof for flue.
Structural steel as required for roof penetrations.
Rigging of equipment.
Start-up and testing of units.
One year warranty.
Permits as required.

Total **$ 382,000.00**

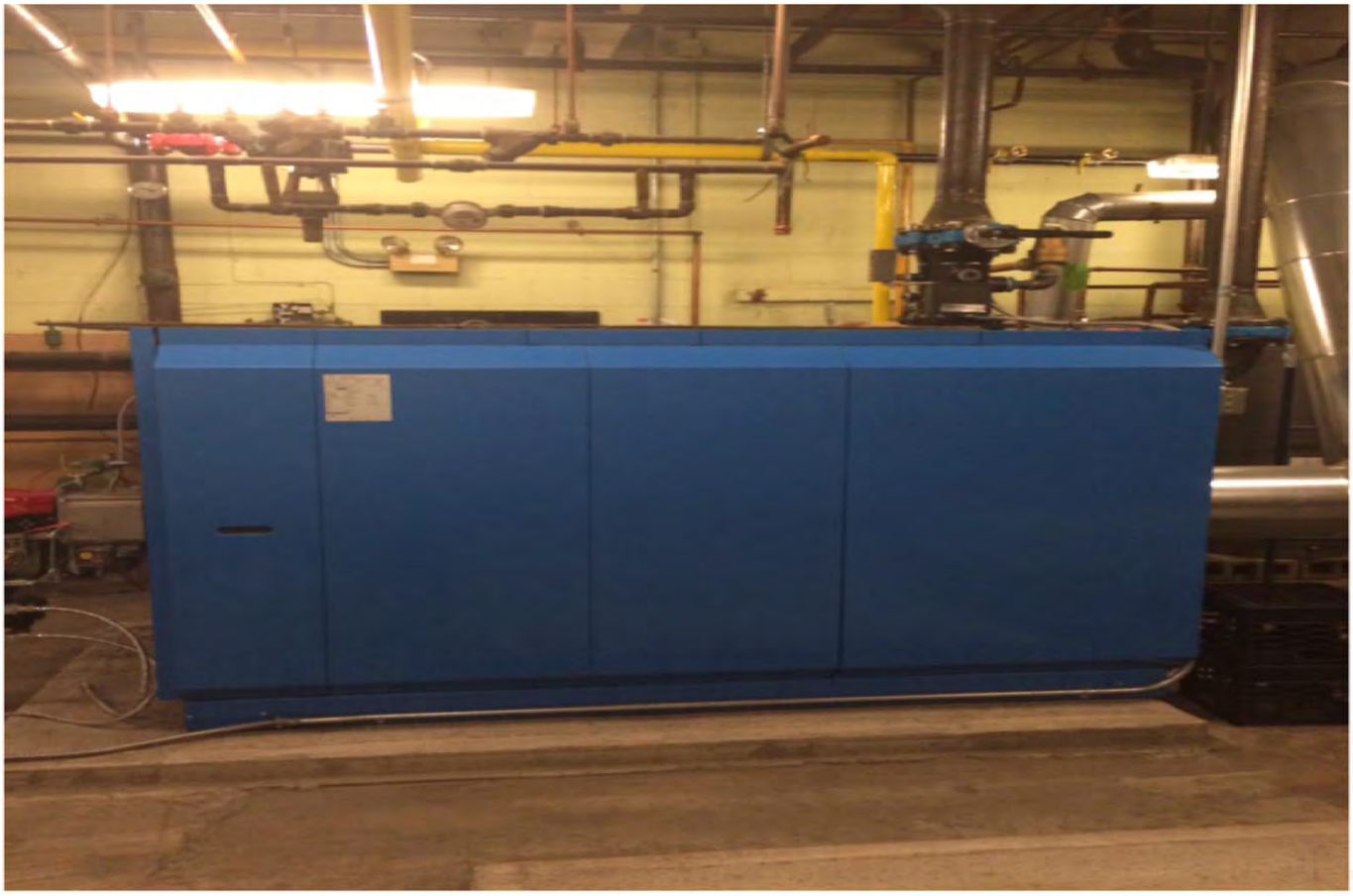
Old 1966 boilers showing age and leaks



Old boiler photos



New 2014 boiler at North Stratfield



New 2014 boiler at North Stratfield

Fairfield Ludlowe High School

Artificial Turf Field Replacement $ 650,000

Background: The existing artificial turf field from 2004 is in need of replacement. This request is for funding the replacement of the artificial turf field system.

Purpose & Justification: The condition of the artificial turf field is declining and safety testing has shown that some sections are no longer safe for play. Replacement of this artificial turf field now will prevent injuries from students and the public use of the current artificial turf field system.

Detailed Description: The expenditure would cover the total cost of the project which would include the removal and disposal of the top coat of the artificial turf field, the resurfacing of the top coat of the running track, all new installation and labor, new permanent line/game striping and new warranty. These funds would also cover design, bidding and construction administration costs 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 $650,000. This number is based on similar replacement projects undertaken in the Town of Fairfield and surrounding towns and estimates provided by contractors.

Long Range Costs: This replacement project will have an anticipated life of 10-12 years of what is considered “heavy use” for this upgrade.

Demand on Existing Facilities: This replacement project will help to keep the integrity of the structural base system for the artificial turf product and prolong the life of the entire system and field.

Security, Safety and Loss Control: This project would enhance safety and loss control by drastically reducing the risk of injuries during its use.

Environmental Considerations: This project replacement includes the recycling of the product removed so therefore helps the environment by not dumping or disposing of this large amount of old artificial turf field material.

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 this work done this summer, 2015.

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 and is a huge safety risk for students and the public using the field.

Date: October 24, 2014

PRICING PROPOSAL FOR FAIRFIELD LUDLOWE HIGH SCHOOL

Sprinturf is pleased to offer supply and install the following high performance artificial in-filled grass surface.

Field Name	Fairfield Ludlowe High School
Square Footage	111,463
Field Markings	Football, Soccer, Field Hockey, and Boy's Lacrosse Markings
Turf System	Ultrablade DFE (Slit Film and Monofilament) with Cool Fiber technology
Synthetic Turf Removal and Replacement Price (Sales & Use Tax Excluded)	$461,600
Additional Cost for CoolFill Infill top layer	$15,000.00

Product Details

Sprinturf is pleased to offer

Product Detail	Ultrablade DFE
Color	Field Green/Rye Green
Pile Height	2.25"
In-fill Type	100% SBR Rubber
Backing/Urethane Weight	24 oz/yd^2
Face Weight	50 oz/yd^2

The Sprinturf Difference

In order to provide the highest quality product and service, one hundred percent of Sprinturf products are manufactured in house and in America creating American jobs and investments. Sprinturf installations are executed to a uniform, national quality standard and Sprintcare, our after sales maintenance program is one of the best in the industry.

Price Includes:

a) Removal and disposal of existing synthetic turf and stockpile of rubber infill onsite for reuse.
b) Laser grade existing aggregate base as needed.
c) Installation of the artificial in-filled grass surface provided by Sprinturf.
d) An 8 Year Manufacturer's Warranty, an 8 Year 3rd Party Insured Warranty.
e) Tufted/Inlaid Football, Soccer, Field Hockey, and Men's Lacrosse Markings.
f) (1) Gmax test at completion.

Sprinturf Customer Loyalty Benefits

a) 1 Annual G-max test over the 8 year-warranty period (8 Tests) ;
b) 1 annual Sprinturf Maintenance Visit over the 8 year warranty period (8 Visits) Estimated Cost Savings;

900 CIRCLE 75 PARKWAY, SUITE 1750, ATLANTA, GA 30339 PHONE 770-933-4070 FAX 770-933-4059

Notes:

a) Any alteration or deviation from specifications involving extra costs is not included.
b) Site security is not included in Pricing.
c) This proposal does not include permits, fees, bid bond, payment & performance bond, engineered drawings, bridging, remedial work, capping of existing irrigation, locating, relocation, or removal and/or repair of existing utilities, lime stabilization, rock excavation, excavation or remediation of unsuitable soils, restoration of the existing roadway utilized for dumping the waste excavation, permeability testing.
d) Pricing assumes Prevailing Wage Rates.
e) Pricing includes purchase via TIPS/TAPS.

The price is valid for the period of 60 days. The price is subject to increase if affected by an increase in raw materials, freight, or levies.

Please feel free to reach out to any member of our team with questions about our offer:

Webb Cook
Director of Sales
(717) 917-1790
wcook@sprinturf.com

Bruce Cheskin
Executive Vice President
(770) 933-4070
bcheskin@sprinturf.com

Noah Stiles
Regional Sales Manager
(516) 732-1551
nstiles@sprinturf.com

Thank you again for your interest in Sprinturf, we look forward to working with you.

Per: _____
Bruce Cheskin
Executive Vice President
Sprinturf LLC

900 Circle 75 Parkway
Suite 1750
Atlanta, GA 30339
PH: (770) 933-4070 Fax: (770) 933-4059
www.Sprinturf.com

SPRINTURF®
AN ITS COMPANY

November 5, 2014

Ms. Lisa Moscato
Fairfield Schools
Fairfield, CT

Re: Fairfield Ludlow HS

Ms. Moscato:

Please accept the following pricing:

1. Re-coat existing track surfacing with red urethane surfacing, and make repairs to cracked areas of the track. Stripe new track surfacing.....**$98,000.00**

2. Inlay girls' lacrosse lines and markings.....**$5,500.00**

Please contact me if you have questions or need other information.

Sincerely,

Webb Cook

Webb Cook
Director of Sales
Sprinturf

Tip Taps Summary

The Interlocal Purchasing System (TIPS/TAPS) is available for use by all public and private schools, colleges, universities, cities, counties, and other government entities throughout the country that are members, which the State of Connecticut is . All awarded contracts through the TIPS/TAPS program have been Awarded under the Competitively Bid Process and received a Contract from TIPS/TAPS Governing Board of Directors. These Awarded Vendors have agreed to provide the best pricing, terms and conditions available to TIPS/TAPS Members, which Sprinturf is a member.

The TIPS/TAPS Program takes PRIDE in providing a purchasing coop where Awarded Vendors and Members both benefit. A school district or other TIPS/TAPS Member can benefit from the cost savings of time and expense in competitively bidding each purchase.

The Purpose of TIPS/TAPS

1) Provide school districts and other governmental entities opportunities for greater efficiency and economy in acquiring goods and services.

2) Take advantage of state-of-the-art purchasing procedures to insure the most competitive contracts.

3) Provide competitively priced solicitation and bulk purchasing for multiple government entities that yields economic benefits unobtainable by individual entities.

4) Provide quick and efficient delivery of goods and services by contracting with "high performance" vendors.

5) Equalize purchasing power for smaller entities that are not able to command the best contracts for themselves.

6) Maintain credibility and confidence in business procedures by maintaining open competition for purchases and by complying with purchasing laws and ethical business practices.

7) Assist entities in maintaining the essential controls for budget and accounting purposes.

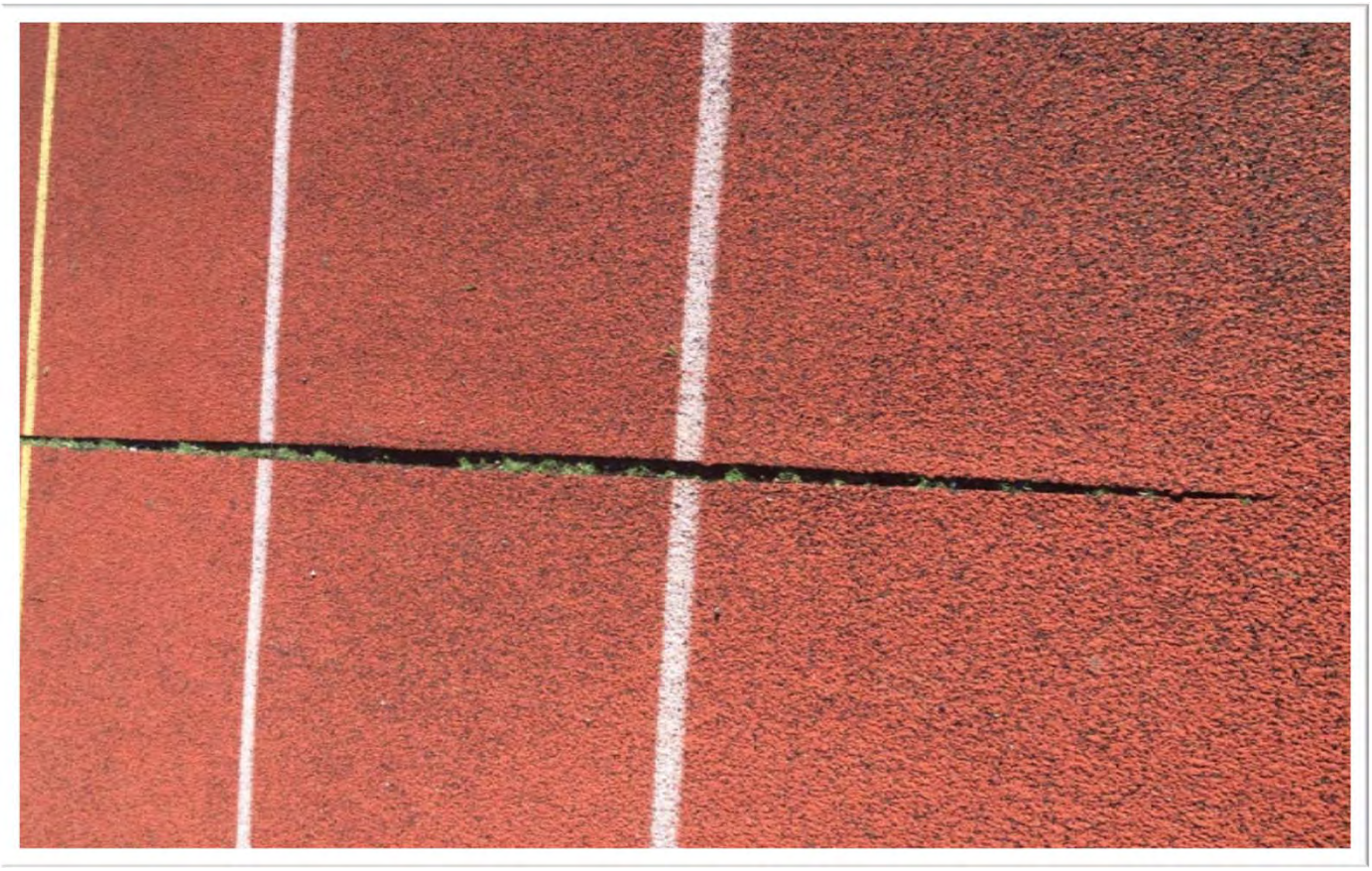
900 CIRCLE 75 PARKWAY, SUITE 1750, ATLANTA, GA 30339 PHONE 770-933-4070 FAX 770-933-4059

Old 2004 artificial turf field showing age and deterioration

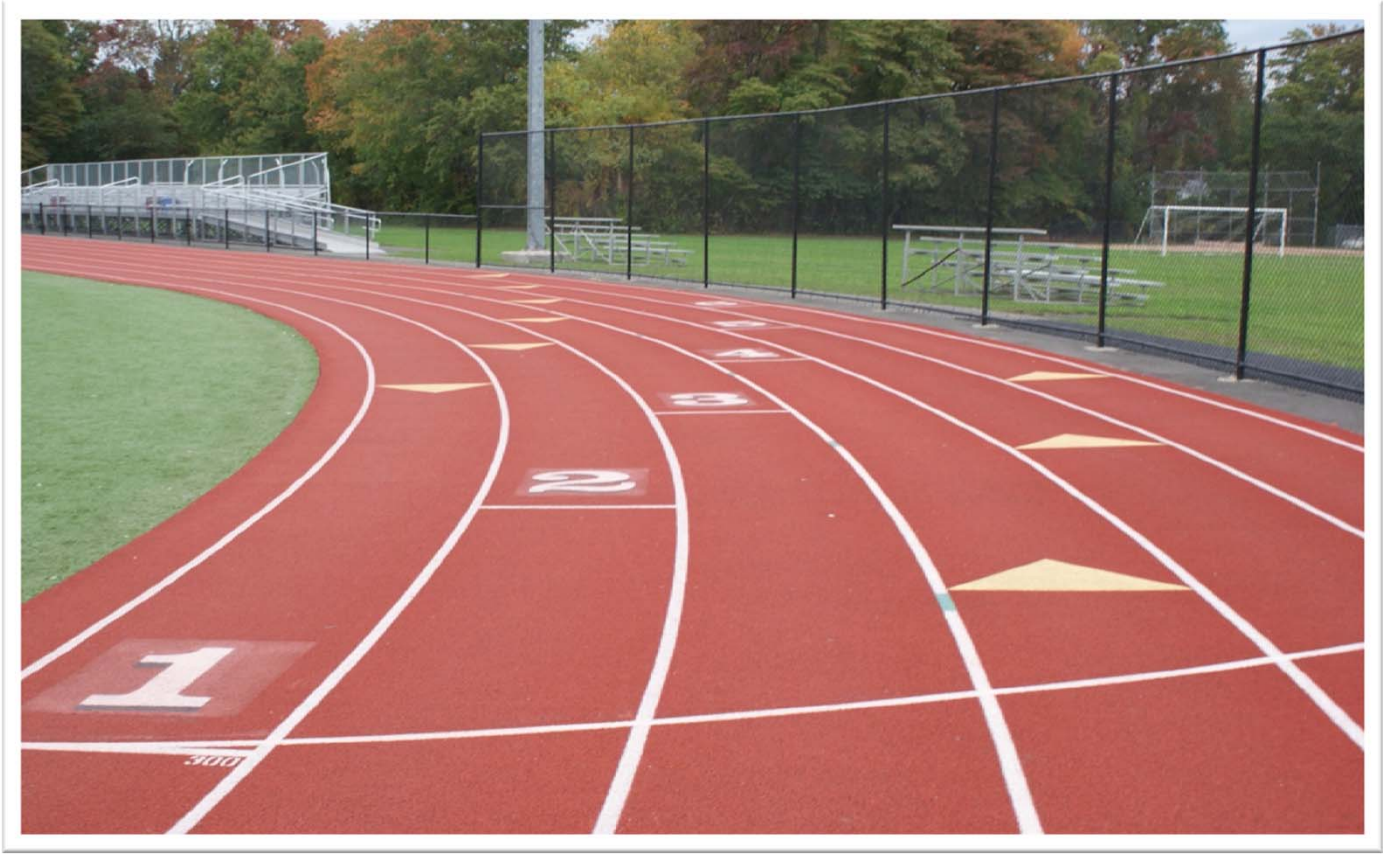
Close up field deterioration

New artificial turf field conditions

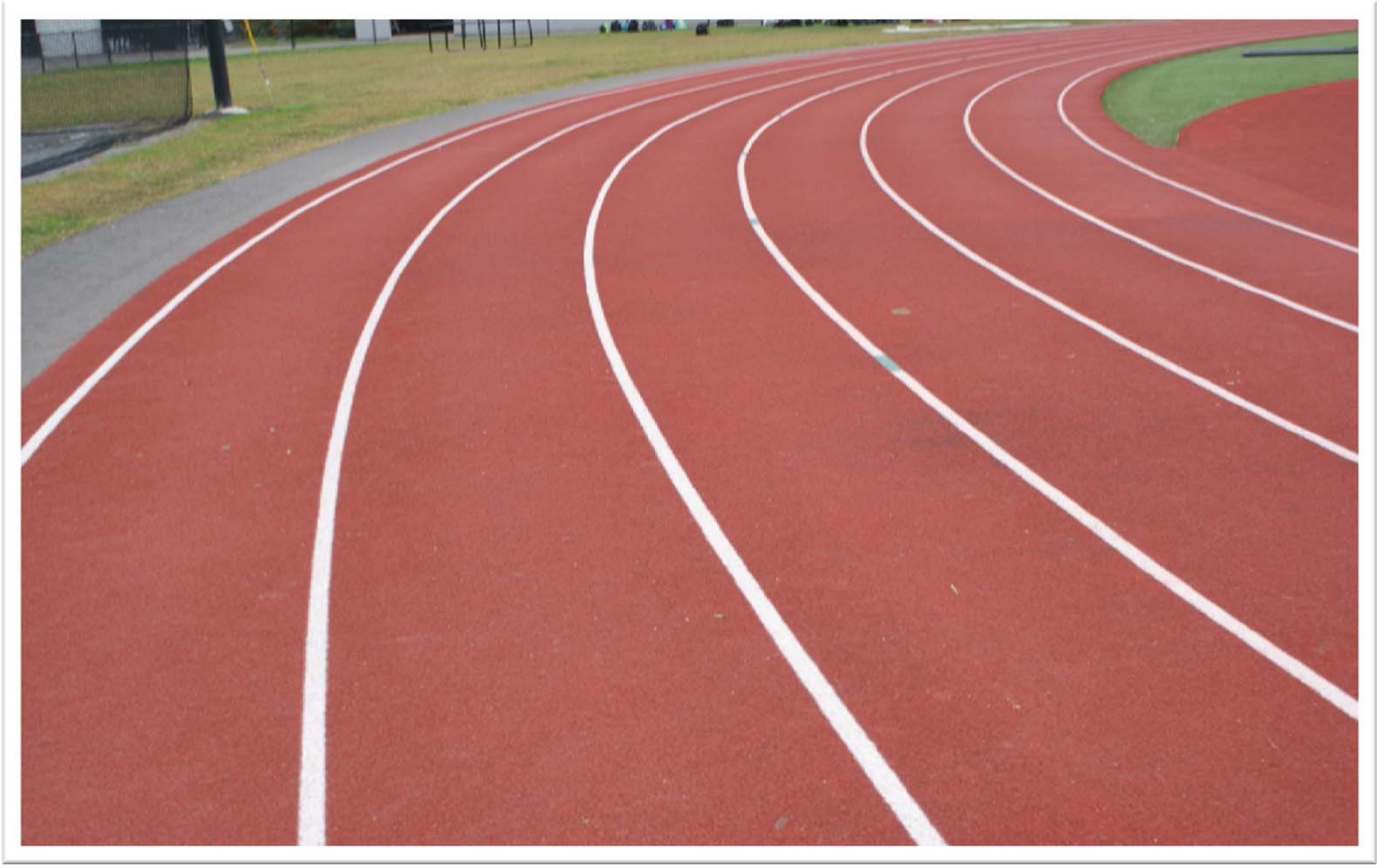
New close up photos of artificial turf field conditions



Old 2004 artificial running track showing age and deterioration



New artificial running track photos



Proposed Security Infrastructure Upgrades

Systemwide $ 3,222,428

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 $3,222,428. Estimates were provided by multiple professional licensed contractors/vendors for the different projects in this funding request. If approved, security funding of $160,000 in the BOE operating budget for 2014-2015 will be redirected to the Health Insurance Fund.

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.

This page left intentionally blank

PROPOSED SECURITY INFRASTRUCTURE UPGRADES

'RAPTOR' **Visitor Management System**	$64,000
Additional Intrusion Film Installation	$785,837
Migration to IP based Security Camera System including interior and exterior cameras for full coverage	$1,192,416
Add Second Monitor to secretary desks for AiPhone & Security Camera Monitoring	$10,000
Bollards at Entries	$78,015
Public Address Upgrades in Cafeterias & Gyms (All Schools) **Wood Shop & Band Room (MS & HS) and Auto Shop (HS)**	$269,676
Fencing at Annexes, Portable Classrooms and connectors (including motion sensor lights)	$284,704
Door Hardware Upgrades for additional 'Safe Rooms'	$90,000
Upgrade PA system to provide All Call Capability	$71,920
'BE SAFE' **Web-based Emergency Operations Plan System**	$120,860
Materials for standard LD Key location	$5,000
Consultants for Vestibule Studies, Camera Upgrades, Signage Study, Bid	$250,000
TOTAL BOND REQUEST	**$3,222,428**

BeSafe Technologies, Inc.

Corporate Locations

244 Rolling Hitch Rd.
Centerville, MA
02632

8317 Harps Mill Rd.
Raleigh, NC
27615

Visit us online:
www.BeSafe.net

Toll Free: 866.216.5649

BeSafe Safety Portal

Periodic updates maintain information integrity and ensure effectiveness of the program. The importance of this ongoing process cannot be understated – the safety of students, faculty, staff and administration, as well as the first responders, depends on the quality of information. Frequency of updates depends upon the level of activity or change anticipated in personnel or equipment in the site or community. The BeSafe Safety Portal offers you:

- Secure Document Management and Publication
- Essential Information Management
- Content Management
- User and Group Management
- Event Planning
- Announcements, Alerts, and Invitations
- Discussion Forums
- BeSafe Information for First Responders
- SMS and Email Messaging
- Other Custom Functionality

"I have worked with BeSafe Technologies for several years implementing a regional response network that has safeguarded schools, hospitals, and community buildings serving over 50 towns and cities. The BeSafe system has enabled police and fire personnel to be familiar with details about a site before they even get there. Having BeSafe helps us to respond effectively and safely." *Daniel Perenick, Sergeant, Winchester Ma Police Department*

One Complete Safety System

BeSafe® from BeSafe Technologies, Inc. is a revolutionary system that provides real time data and information about your community's buildings to police, fire, public health and emergency response personnel. Vital information including floor plans, photos, demographic information and unique building features is distributed electronically and instantly to all emergency response teams. The BeSafe® system is comprised of 4 main components: **Data Collection, Enhanced Floor Plans, Digital Photography, and the BeSafe Safety Portal.**

Data Collection

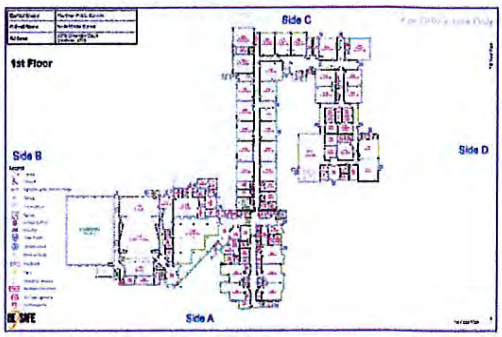
Our trained and experienced staff first surveys your site(s) and collects key information quickly and accurately to ensure the highest quality control.

- Emergency Contact Information
- Utility, building and maintenance data
- Demographics of the building
- HAZMAT information
- Unique building features

Enhanced Floor Plans

Detailed floor plans are then constructed and organized to ensure ease-of-use for emergency personnel.

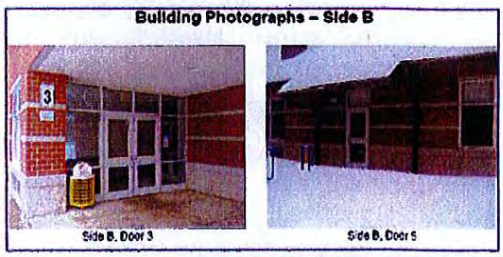
- Building doors, windows, and stairways
- Crawlspaces and sub structure
- Utilities such as water, electric, and gas
- HVAC accessibility
- Fire alarms and sprinklers
- Alarm systems and cameras
- Telephone & intercom systems
- Roof access
- Unique Building features



Digital Photography

Digital images provide police, fire, and emergency response personnel with a complete visual picture of your community's buildings and grounds. Images can be viewed directly from the enhanced floor plans.

- Exterior entrances/exits
- High safety concerns
- Unique building features
- Hydrants, generators



3M™ Safety & Security Window Films and Attachment System
Bomb Blast and Explosion Protection

Fortify your windows from blast related attacks and accidental explosions with 3M™ Safety & Security Window Films and Attachment Systems

- Helps protect people and property against bomb blasts, chemical explosions and other explosives
- Flying glass shards are one of the most common causes of blast related injuries and fatalities
- Attachment systems anchor the film to the glass frame, providing additional protection once the glass is broken
- 3M rigorously tests against a multitude of explosion and blast standards that include both shock tube and open air arena explosive testing
- 3M's micro-layered, tear resistant, 3M™ Scotchshield™ Ultra Series Safety & Security Window Films are specifically designed to provide additional protection from blasts

	Number of Explosive Incidents in the US	Number of Injuries and Fatalities
2013	5,909	421
2012	5,815	180

According to the Bureau of Alcohol, Tobacco, Firearms and Explosives US Bomb Data Center May 2014 Publication

Protecting from explosive attacks

Today bomb threats seem like a daily occurrence. If your facility is considered high risk, is near a building considered high risk, or if your building is near a high risk event, you should consider blast hazard mitigation for your windows. Schools, government buildings, financial institutions, data centers, large international corporations and controversial businesses should all consider blast mitigation strategies. 3M Safety & Security Window Films and Attachment Systems mitigate flying glass shards in the event of a blast, helping to protect people and property.

Protecting from accidental explosions

Accidental explosions are real life every day risks for many industrial, lab or manufacturing facilities and these occur more frequently than we would like to admit. In many facilities, glass windows, or glass insets in doors overlook industrial, lab, or manufacturing space and the risk associated with this glass is rarely considered. In the event of an explosion, one of the most common causes of injury is due to flying glass shards from exploded windows. Help protect from flying glass shards with 3M Safety & Security Window Films and Attachment Systems.

Government owned or leased

Whether owned or leased, most federal and state government facilities are required to implement blast hazard mitigation measures on their windows and glass. 3M Safety & Security Window Films and Attachment Systems have been tested to government referenced standards and meet or exceed the performance requirements on numerous glazing types under a variety of blast loads. Although government facilities range in risk category and level of blast protection required, 3M Safety & Security Window Films can provide an enhanced measure of safety for government employees to meet the necessary protection levels.

Security with a payback

Unlike many security upgrades, 3M™ Window Films can also provide a payback in as little as three years. 3M Safety & Security Window Films can include solar energy rejection, which helps reduce air conditioning costs and save you money.

Learn more about how 3M Window Films can protect people and property, visit *www.3M.com/windowfilm*

3M Renewable Energy Division
Window Films
3M Center, Building 235-2S-27
St. Paul, MN 55144-1000
3M.com/windowfilm

3M and Scotchshield are trademarks of 3M Company. Used under license in Canada. Please recycle. Printed in U.S.A. © 3M 2014. All rights reserved.
98-0150-0499-1

Warranty and Limited Remedy: 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS, INCLUDING ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If the 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

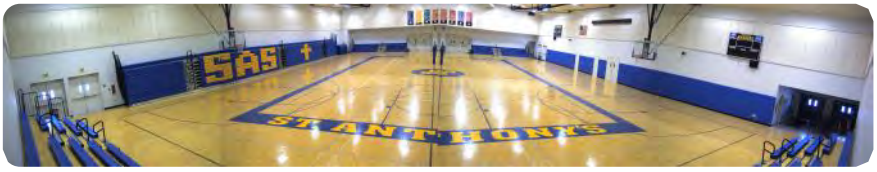
Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.

Security Solutions Division

IP Video Surveillance

Why IP Video Surveillance?

- ☑ **Superior Image Resolution**
  One IP camera can do the job of 6-20 analog cameras.
- ☑ **Ease of Installation**
  Cameras can leverage existing network infrastructure for easy deployment.
- ☑ **Truly Digital**
  Unlike Analog systems, digital video will not degrade over long distances.
- ☑ **Camera Intelligence**
  Distributed intelligence means less demand from servers and client connections.
- ☑ **Fully Integrated**
  A single network cable integrates power, video, audio, PTZ control and I/O.
- ☑ **Built-in Security**
  Video streams require authentication, meaning you control exactly who can see what in your system.
- ☑ **Crystal-Clear Motion**
  Superior progressive scan technology provides sharper images of moving objects.
- ☑ **Easy to Scale**
  Add as the need arises with easy cabling and virtually no limit of video streams.
- ☑ **Lower Total Cost**
  Less cabling, head end equipment and maintenance mean lower total cost of ownership.
- ☑ **New Possibilities**
  Take advantage of emerging technologies with open standard video management systems from the market leaders.



Certified Partners

Arecont Vision

AXIS COMMUNICATIONS SOLUTION SILVER PARTNER

exacqVision Certified Reseller

IQinVision smart camera systems

HIKVISION

SAMSUNG

VALLEY COMMUNICATIONS SYSTEMS

20 1ST Ave. Chicopee, MA 01020

Jason Boutet
Director of Security Solutions
Toll Free: 800-522-4136 ext. 194
Mobile: 413-313-7047
Fax: 413-592-4682
JasonB@valleycommunications.com
www.valleycommunications.com

SALES | INSTALLATIONS | DESIGN | ENGINEERING | SERVICE | TRAINING

State Licenses - MA 1350C | CT CT-C5-192407 | RI RI-TSC-464 | Equal Opportunity Employer