

progress

2012 EDUCATION ISSUE

Lamberton And Wilson Middle Schools Get A “Green” Makeover

The Carlisle Area School District has decided to renovate, expand and improve both the Lamberton Middle School and Wilson Middle School. Reflecting a commitment to improving the environment while providing state-of-the-art educational facilities, these projects will both be seeking LEED Platinum Certification. Along with a multitude of sustainable and energy efficiency upgrades, both 97,000 square foot buildings will receive classroom and administration additions, as well as site reconfiguration and upgrades.

Lamberton and Wilson Middle Schools were built in 1979 as identical one-story buildings housing grades 6, 7, and 8. The original building design followed educational practices of the day and provided three classroom pod areas, each having an open plan with no corridors. This design internalized most of the classrooms, separated only by movable partitions, with very few rooms having windows to provide daylight or views outside.

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Exterior rendering of the administrative entrance

Curtain Raises on Newly Renovated Summit HS Auditorium



Raise the curtains...dim the lights! As Summit's Architect-of-Record EI Associates recently completed a comprehensive renovation of the existing High School Auditorium. Originally constructed in the late 1950's the High School Auditorium was in need of upgrade and modernization. The project included the design of a new floating "cloud" ceiling system to improve acoustics as well as new stage flooring, curtains, and a Brickhouse rigging system. The existing wood paneling was refinished and new flooring installed. New auditorium seating was also installed to comfortably accommodate 900 people and to address ADA guidelines.

In addition, the Auditorium required modernization of its electrical systems, including new lighting systems and controls. New general area lighting, stage lighting, aisle lighting and decorative pendant and wall sconce fixtures were installed to improve illumination and aesthetics. During performances, audio-visual and lighting systems are now all controlled from a new central AV control booth custom designed by EI. Theater lights once again shine brightly in Summit!



Interior photo of the new fitness area

District Highlights Wellness And Nutrition

The new Health and Physical Science Addition at the Pequea Valley High School is a state of the art space where the importance of physical fitness, wellness and nutrition is being highlighted for students and the community. The new facility consists of a large two-story athletic corridor, creating a new entrance to the existing gymnasium. The new addition features a new 4,300 s.f. life fitness room with expansive windows to the south and the west. The space is filled with cardio and strength training equipment, as well as, media equipment. Included in the design are new concession areas, an area for display cases, and an event ticketing space.

The fitness area includes a dedicated classroom for health and physical science classes, a locker room and a training room. In addition to the classroom space a series of fitness center support offices are provided and they include a new Athletic Director Office, Coaches Office and Trainer Office.

El Associates designed alterations to the existing weight room, training room and gym storage spaces which are being re-purposed to support athletic events for both the public and the students. The upper portion of the existing area is being repurposed as storage space for the gymnasium.

Mid Atlantic Builder Exchange Posts 100,000th Project To Online Plan Room

MABX, El Associates and Carlisle Area School District officials celebrated the 100,000th project at a news conference on Friday, August 17 at El Associates' 2001 North Front Street office in Harrisburg, PA. The project, designed by El Associates, is for additions and alterations to two Carlisle Area School District middle schools with an estimated cost of close to \$37 million.

"We are honored to be recognized by MABX and to celebrate the commitment that Carlisle Area School District has made to the design process. Their projects will be an example of the benefits of sustainable building design to not only their students and staff but to the communities that they serve",

Senior Vice President, Principal in Charge, Mark S. Barnhardt, AIA, said.

"Reaching 100,000 projects reported is an important milestone for MABX, especially considering that many of these projects have been reported since we expanded our reach in 2006," Harvey said.

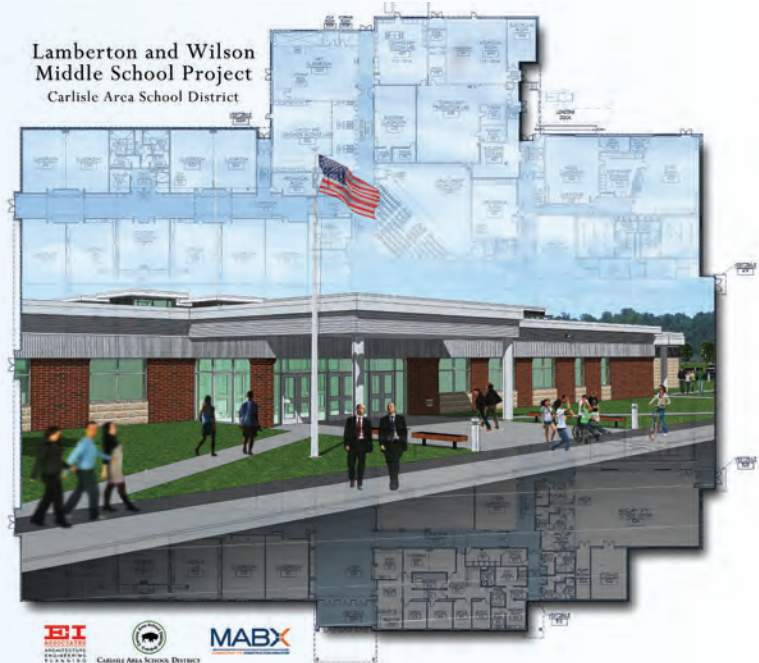
MABX gathers comprehensive public and private construction project information from sources in Pennsylvania, New Jersey, Delaware and Maryland. This includes project details, plans, specs, addenda and other documents. These projects are entered into COOL where members can then access that project information to prepare bids.

El Associates, a long-time MABX member, submitted project 100,000. The designs for Carlisle's Lambertson and Wilson Middle Schools include a variety of energy efficient additions and updates to the two identical one-story buildings. Reflecting both El's and the school district's commitment to energy-efficiency while providing

state of the art educational facilities, these projects will both be seeking LEED Platinum Certification.

According to El Associates, "Even though there will be over 20,000 square feet of additions at each building, these renovated middle schools will be using an estimated 56 percent less energy per square foot per year than the existing, smaller buildings do now.

Developed by the U.S. Green Building Council, LEED (Leadership in Energy and Environmental Design), "provides building owners and operators with a framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions."



Lambertson and Wilson Middle School Project
Carlisle Area School District

Window Replacement Projects

Over the past few years EI Associates has completed window replacement projects for Cranbury Township, Jefferson Township, Hasbrouck Heights, Northvale, Summit and Tewksbury Township School Districts. All projects received 40% state funding through the NJSDA ROD Grant program.

Many schools that were constructed before the mid 1970's are prime candidates for window replacement. A project of any magnitude must address a multitude of issues throughout the planning, design and construction. In addition to the desired aesthetic improvement, other important considerations such as code requirements, hardware, operation, security, vandalism and life-cycle costs must be addressed. Life-cycle factors should include energy savings, ease of operating and maintenance, engineering features, solar screening and performance.

Administrators should be aware of project timelines because window orders typically take several months for delivery. In an ideal world, all window replacement projects would be performed in the summer months. In the real world, however, windows are often installed only at night and on weekends. In these cases contracts should require that installation in any one room must be completed within 24 hours.



Exterior photo of the high school

Selinsgrove Area High School Achieves Two Green Globes

The Selinsgrove Area High School (Selinsgrove Area School District, Snyder County, PA) has achieved Green Globes Certification from the Green Building Initiative (GBI). The project's rating reflects 561 out of 932 documented and approved points, which corresponds to the certification level of Two - Globes under the New Construction Rating System. This level is also the equivalent of LEED Silver Certification.

Points were calculated in seven documented areas: Project Management; Site Considerations; Energy; Water; Resources, Building Materials, and Solid Waste; Emissions, Effluents, and Other Impacts; and Indoor Environment.

The High School is the first in Snyder County to achieve Green Globes Certification according to the Green Globes NC Certified Buildings Listing and only one of four public school facilities to achieve certification in the Commonwealth of Pennsylvania. The certification plaque and certificates were presented to the District in June.

Cover story continued: Carlisle Area School District...

As part of the renovation project the classroom areas will be completely reconfigured, giving each grade its own separate corridor, organized around a central Commons, and two Teaming areas per grade. Each Team area is defined by a new daylight monitor, bringing natural light into the classrooms and corridor spaces. These monitors, along with new tubular skylights, ensure that each classroom will now have natural light and will reduce the need for artificial lighting.

The renovated Middle Schools will also have 'smart' lighting fixtures and outlets throughout which will dim and turn off when students and staff are not present. The renovation will take advantage of existing 20,000 gallon underground storage tanks and re-use these for a rainwater harvesting system. This system will capture an estimated 357,000 gallons a year from the roof which will be treated and used as the non-potable water supply for the entire building. The amount of storm water run-off from each site will further be reduced by utilizing over 11,000 square feet of vegetative roofing.

Even though there will be over 20,000 square feet of additions at each building, these renovated Middle Schools will be using an estimated 56% less energy per square foot per year than the existing, smaller buildings do now.

For more information please refer to the Mid Atlantic BX article.

Navigating the NJ SDA Grant Process

During the recent Spring NJASBO Conference El Associates led a workshop entitled, "Successful Navigation of the ROD Grant Process from Project Submission to Receipt of Grant Funds". Representatives from El Associates as well as the Summit Board of Education and the NJSDA presented an overview of the ROD Grant Process including timelines and the roles and responsibilities of the District Architect, the School District, the DOE and the SDA.

The presentation was designed to help Districts better understand, navigate, and complete the SDA Grant process to expedite receipt of funding. The three key 'P's to this process include:

- **Process:** Understanding the ROD Grant Funding Process and the roles and responsibilities of the Architect, District, DOE and SDA,
- **Preparation:** The completion of thorough facility condition assessments to identify priority projects, be in a position to act once ROD Grant funds are announced, and streamline the application process, and
- **Paperwork:** Managing, Completing and Filing required SDA forms:
 - **Architect:** DOE Project Application and Approval and Consultant and Contractor Certification Forms
 - **District:** Exhibits B & C, Form 806GA, Board Resolutions and Payments
 - **SDA:** Grant Letter Offer, Executed Agreement, Payment Reviews

A copy of this presentation is available on El's website (www.eiassociates.com), located under "Publications". El is available to further discuss the ROD Grant Process and help prepare your district for upcoming SDA funding allocations.



South Orange-Maplewood Plans for 21st Century Education

The South Orange-Maplewood School District recently commissioned El Associates to conduct a Comprehensive Facilities Conditions Assessment of all District facilities comprising 7 elementary schools, 1 alternative school, 2 middle schools, 1 high school and 3 support facilities. This study will assist the District in assessing the life span and infrastructure needs of the facilities, develop a comprehensive strategic plan to address identified needs, and create a long-range vision that will re-vitalize and repurpose the District facilities to support 21st Century educational program goals.

The Assessment is summarized in a four-volume report which:

- Identifies infrastructure needs to building systems and components, athletic fields and site areas.
- Examines the Educational Adequacy of the facilities in regard to current and future program goals and meeting the needs of 21st Century Schools.
- Prioritizes plans and recommendations to meet identified needs for a period of 15 years.
- Provides information that will assist in updating the District's Five Year Long Range Facility Plan.
- Provides data for a comprehensive, strategic Master Plan to provide for the future educational needs of students in grades K-12.

El Associates is now working with the District staff to analyze the report data and establish priorities for a Master Plan to address needs and plan for new 21st Century educational facilities.



Historic Columbia High School in South Orange-Maplewood

Owatin Creek Elementary First Leed® Gold School In Berks County

El Associates is pleased to announce that the Owatin Creek Elementary School, Exeter Township School District, Berks County, has achieved the Leadership in Energy and Environmental Design (LEED®) Gold certification from the U.S. Green Building Council (USGBC). The project's LEED® rating reflects 46 documented and approved points, which corresponds to the certification level Gold under the LEED® for Schools version 2.0. LEED® certification identifies the Elementary School as a pioneering example of sustainable design and an asset to the community. This is the first elementary school in Berks County to achieve Gold Certification and marks El Associates ninth LEED® certified project.

Located on a ninety-two acre site the design incorporated many energy efficient components such as low-emitting materials, geothermal heat pump, exceeding high recycled content, reduced the heat island effect and light pollution, and reduced water by more than 30%.

The school is also equipped with Green Building Education Signs that describe Green Building elements and their benefits to students, staff, and visitors. These features minimize the impact of the School on the environment by saving energy, reducing waste, preventing pollution and conserving water and other natural resources. The elementary school is for students in grades K-4 and is 108,716 square feet.



Newton High School Stadium Field



The first phase of the Newton High School Athletic Field Upgrade Program has been completed just in time for the school's first home football game under the lights. This phase of the Master Plan covered improvements to the stadium field including the replacement of the existing natural turf field with a new synthetic turf field striped for football, field hockey, soccer and lacrosse, new stadium lighting, a new scoreboard, and new provisions for field events. The project was designed in late winter, publically bid in the spring, and constructed over the summer.

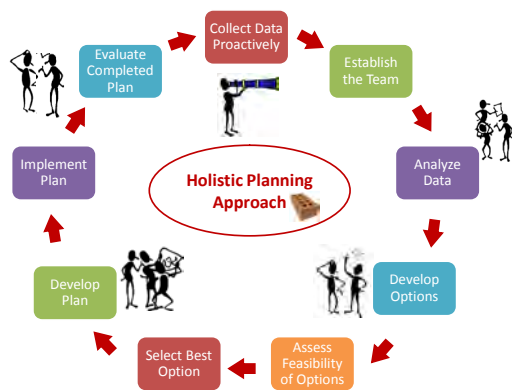
Prior to starting this phase of the work El Associates worked with the District to develop a multi-phased Master Plan for site upgrades. Other areas of development slated for future phases include a multi-purpose synthetic turf field for field hockey, soccer, lacrosse and baseball, track resurfacing, tennis courts and increased parking.

LRFP...Your District's Road Map for Pro-active Facility Planning

The Long Range Facility Planning (LRFP) process is a critical phase of any subsequent building improvement program which a School District may consider. Information, options and recommendations developed during the LRFP process will provide the District a "road map" for all further decisions and project development. EI Associates uses a comprehensive, 3-pronged approach to identify: 1) Facility and Infrastructure Needs, 2) Educational Program Needs, and 3) On-going Maintenance Needs as the basis for LRFP development.

Per recent DOE changes NJ school districts are no longer required to automatically prepare and submit a new LRFP every year ending in a "0" or a "5". Instead, following the approval of the 2005 LRFP, each school district shall amend its LRFP at least every five years to update enrollment projections, building capacities, and health and safety conditions.

EI Associates is assisting our clients with amending existing LRFP's as well as performing more comprehensive assessments as part of developing new LRFP's. LRFP updates provide Boards of Education with important information on facility needs, prioritized recommendations, and estimated construction cost estimates so that projects can be budgeted, scheduled and executed in a measured, pro-active fashion. Equally important, this information enables New Jersey School Districts to identify key projects that can be submitted for state funding should a new allocation of the R.O.D. Grant for Facilities Improvement program be made available.



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News, Notes & Events

SUSTAINABLE DESIGN

LEED® Certified

School District of the City of York – Arthur W. Ferguson Elementary School – LEED® Platinum Certified
Exeter Township School District – Owatin Creek Elementary School – LEED® Gold Certified

Seeking LEED® Certification

Carlisle Area School District – Wilson and Lambertson Middle Schools – Platinum
Bedford Area School District – Bedford Area Middle School – Silver
Lower Dauphin School District – Conewago Elementary School – Silver
School District of the City of York – Jackson Elementary School – Silver
School District of the City of York – McKinley Elementary School – Silver
School District of the City of York – Phineas Davis Elementary School – Silver
Southern York County School District – Friendship Elementary School – Silver

Green Globes Certified

Selingsgrove Area School District – Selingsgrove Area High School – Two Green Globes Certified

NEW PROJECTS

- Bergenfield SD – HS Photovoltaic Installation and Toilet Room Renovations
- Boyertown Area SD – Alterations and Additions to Boyertown Area Senior High School
- The County College of Morris, NJ – Facility Assessment
- Cranbury Township SD – Window Replacements, Casework and Electrical Upgrades, Sitework and Main Entrance Improvements and LRFP Update
- Cumberland Valley SD – District Administrative Office Alterations/Additions
- Green Brook SD – Laboratory Casework and Mechanical Upgrades
- Hackettstown SD – Ceiling Replacements and Paving Improvements
- Haworth SD – Mechanical Upgrades and Roof Replacement
- Hillside SD – HS Track Renovations and Health and Safety Improvements and Renovations at 6 Schools
- Kean University – Dormitory Sanitary Sewer and Toilet Room Improvements
- Lehigh Area SD – Alterations to East Penn Elementary School
- Lehigh Area SD – Alterations to Mahoning Elementary School
- Manheim Central SD – New Elementary School
- Manheim Central SD – Alterations and Additions to Doe Run Elementary School
- Metuchen SD – LRFP Update and Additions and Renovations to Elementary School
- Newport SD – Alterations to Newport Elementary School
- Newton SD – New HS Athletic Field
- Oakland SD – Boiler Replacement
- Paterson SD – Kitchen Sanitary System Improvements and Water Infiltration Mitigation
- Roosevelt SD – District Architect Services
- South Eastern SD – Alterations to Delta-Peach Bottom Elementary School
- South Eastern SD – Alterations to Fawn Area Elementary School
- South Eastern SD – Alterations to Stewartstown Elementary School
- South Orange Maplewood SD – District-Wide Comprehensive Facility Assessment and Master Plan
- Summit BOE – Lincoln Hubbard ES Sitework Improvements, Franklin ES TCU, Brayton ES Masonry Repairs and Comprehensive Assessment of 5 District Elementary Schools
- Tewksbury BOE – LRFP Update
- Tri-Valley SD – Alterations and Additions to Hegin-Hubley Elementary School
- Tri-Valley SD – Alterations and Additions to Mahantongo Elementary School
- Union County College – Kitchen/Servery HVAC Replacement
- West Amwell/Lambertville BOE – District-Wide Comprehensive Facility Assessment
- Wilson SD – Additions to Shiloh Elementary School, Spring Ridge Elementary School, and Green Valley Elementary School

EVENTS

- PSBA/PASA Annual Conference, Hershey, PA: October 17-18 - Visit us at our booth 326/328
- DVASBO Trade Show, Jeffersonville, PA: November 9
- NJSBA/NJASBO/NJASA 2012 Workshop and Exhibition, "Partners in Student Success" – October 23, 24, 25 – Atlantic City Convention Center, Atlantic City, NJ
Visit us at our Booth #525 to discuss your District's facility needs and to learn more about EI Associates
- PASBO Annual Conference & Exhibits, Pittsburgh, PA: March 6-9, 2013
- Maryland & DC ASBO Spring Conference, Ocean City, MD: May 2013