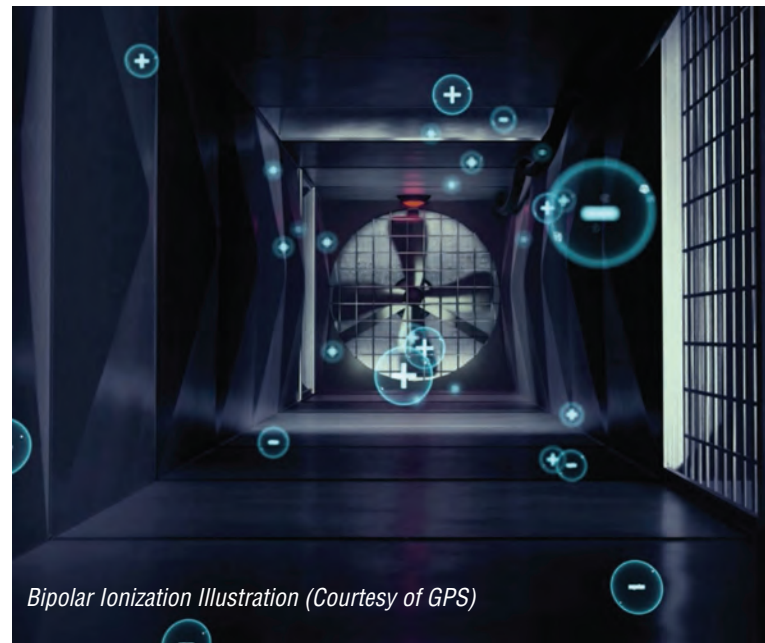


progress

2020 **EDUCATION** ISSUE

Indoor Air Quality Improvements for Demarest >>

To address COVID-19 concerns and improve indoor air quality, EI Associates is assisting the Demarest School District (District) by designing the installation of Needlepoint Bipolar Ionization devices manufactured by Global Plasma Solutions (GPS), within existing mechanical equipment serving the three District Schools. GPS equipment will be installed within existing rooftop air handlers, air handling units, unit ventilators, and cabinet unit heaters at the County Road School, Luther Lee Emerson School and the Middle School. Needlepoint Bipolar Ionization devices will also be incorporated into new recirculation fan systems which are being installed at existing toilet rooms. Our work was performed on an accelerated basis and it has involved the preparation of detailed design documents to obtain building permits, contractor quotes and to construct the work on a "fast track" basis.



Bipolar Ionization Illustration (Courtesy of GPS)

Camp Hill School District Nears Renovation Completions at MS/HS and Looks to Hoover Elementary School Next >>

Since the initial District-Wide Feasibility Study completed in 2018, EI Associates has addressed and completed critical renovations for building deficiencies and code compliance issues that were discovered at the Middle School/High School facility. During the summer of 2020, major interior modernization renovations began with both building entrances and the administration areas being reconfigured to provide secured vestibules along with updates to interior finishes for an improved indoor environment and reorganization of educational spaces to accommodate new layouts for enhanced learning experiences. Construction for this current phase will continue through early Fall while the remainder of the scope of work will be completed during winter break and summer 2021.

Continued on page 5



Camp Hill School District Wrapping Up Renovations at Middle/High School; Sets Eyes on Next Project

Weatherly Area SD Renovation Improvements Provide Safe Educational Environment >>

In May of 2017, the Weatherly Area School District hired EI Associates to conduct a district-wide feasibility study. The completed study provided the District with detailed information that analyzed current student enrollment against projections, building conditions and capacity, energy use and efficiency of each facility along with an examined look at their current educational programs versus future educational trends. Proposed options for each facility were presented to the District for consideration based on immediacy.

The primary focus for the Weatherly Area School District was student safety. Prior to renovations, easy access by the public throughout both school buildings was a serious concern for the District. The proposed vestibule design for both the Elementary/Middle School and the High School buildings addressed safety concerns and modifications to the administrative area to accommodate the new, improved secure entrances. Additional cameras were then installed throughout both facilities to provide extra safety measures for students and staff. Additionally, the project entailed addressing mechanical, electrical, and plumbing issues to provide the most up-to-date, energy efficient systems along with addressing ADA compliance improving the overall comfort and safety of the learning environment for students. Existing media centers at both buildings have been modernized while the Elementary/Middle School gymnasium received a major facelift supporting a variety of activities for staff, students, and the community. Overall, both facilities will see improvements in new finishes to give each building a fresh look.



EI Associates Nears Completion of Renovation Updates

New Culinary Arts Suite for Scotch Plains-Fanwood School District >>

Since 2018 EI Associates has been assisting the Scotch Plains-Fanwood School District with capital project execution including HVAC upgrades at Scotch Plains-Fanwood High School and a District-Wide Mechanical Facilities Assessment. Most recently EI designed the renovation and conversion of an outdated Home Economics suite into a modern Culinary Arts Suite. EI architects and engineers worked in collaboration with the Scotch Plains-Fanwood Administrators and the Culinary Arts Teachers and Department Director to provide a cost-effective design solution within the District's budget while creating a dynamic learning environment.

The new Culinary Arts Suite provides a state of the art commercial kitchen environment for the students. Features include LED lighting, six individual student workstations and one

teacher workstation along with all new modern appliances, multi-component sinks, new cabinetry, counter tops and flooring. New exhaust hoods with Ansul fire suppression systems, rooftop HVAC equipment (RTUs), and a built-in dry storage and pantry area will also be provided. Construction is scheduled for completion in November 2020.



Construction Progress Photo

Planning and Execution of a \$35m Referendum for Hillsborough >>

EI Associates has been assisting the Hillsborough Township School District as their Architect-of-Record since 2018 when we prepared a District-Wide Facilities and Capacity Assessment. In December 2019 EI helped the District pass a \$35 million referendum to address important facility needs identified in these studies. Through close collaboration with the District, including many community work sessions to address questions and to build consensus EI developed a well-conceived referendum scope, approach and schedule to ensure success. Under this referendum all capital projects will be completed over the summers of 2020 and 2021 to include the following at each of the five schools:

- Roof replacements (\$9.6 million)
- Site work improvements – Paving (\$5.2 million)
- Mechanical upgrades (\$15.7 million)
- General building renovations (\$5.8 million).



Paving Improvements

Carlstadt School District Secured Vestibule >>



As the Architect-of-Record for the Carlstadt Public School District since 2018 EI Associates has assisted in the completion of capital projects such as the design of an Occupational/Physical Therapy Room which was converted from a former storage area, the redesign and reconstruction of a large site retaining wall along with access stairway and related site improvements, the design of a dedicated structure to display a historic bell, and mechanical engineering related to the existing boilers. Most recently EI completed the design of a new security vestibule at the main office consisting of bullet resistant treatment of the existing glazing, replacement of exterior lighting, and the installation of a new security wall with transition window to separate the administrative areas from the public entry vestibule. Through the collaborative efforts of EI Associates architectural and engineering design team and the Carlstadt Public School Administration a very cost-effective design solution was utilized. The project completion date is schedule for October of 2020.

Tenaflly School District Geissinger Field Bleacher Replacement >>

As the District Architect-of-Record EI is currently assisting the Tenaflly School District by designing the replacement of existing grandstands at Geissinger Field. The existing grandstands are a "cross-braced" structure with seating capacity for 750 people. An original wood sheathed pressbox is located at the top of the grandstands which is cantilevered off the back of the structure. The grandstand structure and pressbox

Continued on back



New Bleachers and Pressbox

Comprehensive District-Wide Study and Preventative Maintenance Initiative for Chestnut Ridge >>



A Comprehensive District-Wide Feasibility Study Completed by EI Associates Provides District with Preventative Maintenance Tool

EI Associates was recently retained to perform a Comprehensive District-Wide Feasibility Study for the Chestnut Ridge School District, a long-time client of our firm. The study was aimed at addressing demographics, educational programming, and a review of facilities conditions. Prior to having a comprehensive study as a resource, the District was relying on staff recollections or purchase orders to determine the age and condition of the equipment. The District's goal now is to implement and maintain a preventative maintenance program, which will ultimately help long-term planning efforts when it comes to addressing future facility needs. EI Associates continues to work with and assist the District in determining options for various capital improvement projects under consideration for the future.

Elementary Center Design Options for Southern Huntingdon County >>

The Southern Huntingdon County School District retained EI Associates to perform a comprehensive District-Wide Feasibility Study with emphasis in addressing three aging elementary schools. One of the existing elementary schools sits in a flood area and experiences chronic water issues which requires running four pumps continuously year-round. After the completion of the study the District devoted time and thoughtful discussion to pursuing the construction of a new, consolidation elementary center housing grades pre-K through 5. Ultimately, the District realized advantages gained by consolidating, which will include large annual operational cost savings, balanced class sizes, efficient use of staff and teachers on one centrally located site, and the ability to complete construction of the new school without impeding upon class instruction. The design team at EI Associates and the District are now working together to develop design concepts for what would provide the best learning environment for students.



EI Associates Provides Design Options for Consideration

El Associates Works with Schuylkill Valley School District to Assess Enrollment Growth and Facility Space >>



El Associates Addresses Enrollment Growth and Facility Options

At the beginning of the year, the Schuylkill Valley School District began looking into possible renovations and additions throughout the District in an effort to alleviate overcrowding. The District retained El Associates assess all District facilities and provide the District with a Comprehensive District-Wide Feasibility study that will be used as a tool for short and long-term facilities planning. Our team evaluated not only the current conditions of each building within the District, but also projected anticipated student enrollment. The

study found that there will be substantial near-term and longer-term enrollment growth in the elementary grades with only moderate growth projected for the secondary grades. Recommendations were developed by our team in conjunction the District personnel to address need for additional classroom and support spaces along with a comprehensive list of building updates and upgrades that were ordered by rank and estimated cost.



Southern Fulton Elementary School

El Associates Performs Elementary Building Assessment for Southern Fulton School District

Southern Fulton School District Hires El Associates to Perform Feasibility Study >>

El Associates was recently retained by the Southern Fulton School District to perform a feasibility study for their only Elementary School facility. The District expressed a need for a detailed study that will evaluate the entirety of the elementary building, thereby providing the District with clear direction on the selection of future project work. The study will address current conditions of the building, its systems and size, while ranking urgency of potential future projects along with an evaluation of the current student population in comparison with future enrollment projections.

Cover story continued:

The Camp Hill District is now planning improvements at Hoover Elementary School. The proposed project will address traffic and safety concerns with a new parent drop-off/pick-up loop on the west side of the facility. The Camp Hill School District is a walking and drop-off/pick-up only District with no bussing. The added loop will relieve the current crowding of cars at parent drop-off and pick-up on two bordering neighborhood streets. Additionally, new play areas will be located away from main parking lot creating a safer space for students to play and better access to the building. A new District Administration Office addition, to replace the current overcrowded office building, is also a part of the proposed project as an alternate option and will provide a more accessible and energy efficient facility. The project is scheduled to be released for bids mid-August of this year.

Stevens Institute of Technology Campus Electrical Service Upgrade >>

EI Associates is currently designing a new 26.4KV campus electrical service increase for Stevens Institute of Technology. It will permit the construction of new dormitory facilities on the North campus of Stevens and other future facility construction. The service is also intended to migrate to multiple North campus buildings in the future to free-up capacity of the existing South campus substation. The project covers the installation of two new 26.4KV switches and metering section to be located near the existing 8th Street parking lot (corner of Hudson Street and 8th Street), from which a pair of 26.4KV cables will be run underground, in a concrete duct bank, along 8th Street to a new 8MVA transformer and 5KV distribution enclosure to be located next to the Howe Center.



New Electrical Switch

Tenafly School District continued:

have deteriorated and required replacement. The grandstand replacement project covers the following improvements:

1. Demolition of the existing grandstand and press box structure.
2. Installation of new pier foundations to accommodate the new grandstand structure.
3. Installation of a new 800 seat cross-braced grandstand structure.
4. Installation of a new pressbox area sized under 500 sq.ft. to eliminate the requirement for a lift.

Construction of the bleacher improvements is underway and will be complete by September 2020.

News, Notes & Events

SUSTAINABLE DESIGN

LEED® Certified

- Bensalem Township SD – Bensalem High School – Gold
- Lehigh Area SD – Lehigh Area Elementary Center – Gold
- Lehigh Area SD – High School – Gold
- Manheim Central SD – Baron Elementary School – Gold

NEW PROJECTS

- | | |
|--------------------------|---|
| Bedford Area SD | Existing ES Renovations |
| Camp Hill SD | Hoover ES Alterations and Addition |
| Chestnut Ridge SD | Capital Improvements |
| Demarest SD | Indoor Air Quality Improvements |
| Hillsborough Township SD | District-Wide Referendum Improvements |
| Lakewood SD | District-Wide Ventilation Assessment |
| Montclair SD | District Ventilation Assessment |
| Piscataway SD | HS Athletic Field and Bleacher Upgrades |
| Schuylkill Valley SD | Existing ES Alterations and Additions |
| Southern Fulton SD | Existing ES Feasibility Study |
| Tenafly SD | District-Wide Ventilation Assessment |
| West Orange SD | District-Wide Indoor Air Quality Improvements |

EVENTS

- PASA/PSBA School Leadership Conference – October 14-15, 2020 – Virtual.
- NJSBA/NJASBO/NJASA 2020 Virtual Workshop and Exhibition, “Imagine, Create, Lead” – October 20-22, 2020 – Booth #521.
- PASBO Facilities Management & Transportation Conference – October 29-30, 2020 – Virtual.



For additional information
on our services visit our website
www.eiassociates.com
or contact:

8 Ridgedale Ave, Cedar Knolls, NJ 07927

P 973.775.7777

E brian_donnelly@eiassociates.com

2001 North Front Street, Bldg 3, Harrisburg, PA 17102

P 717.233.4556

E dwertz@eiassoc.com