



# PULASKI CSD

*Pulaski, NY*

**PROJECT TITLE**  
Infrastructutre Upgrades

**COST**  
\$9 M

**COMPLETION**  
January 2017

**REFERENCE**  
Brian Hartwell  
Superintendent of Schools  
315.298.5188

IPD provided engineering services to support infrastructure upgrades at the elementary, middle/high school building and bus garage. The project included boiler system replacements at the elementary and middle/High school, auditorium lighting and sound systems, HVAC direct digital control upgrades, new door access controls at all buildings, new fire alarm system at the elementary building and ventilation upgrades at the elementary.

HVAC scope consisted of the replacement of the High school boilers with high efficiency condensing boilers. The existing chiller was replaced at the high school with a high efficiency air cooled chiller located on the roof; chilled water piping was extended to additional classrooms on the 2nd floor. Air handlers and rooftop units were replaced that served the offices and auditorium. A dedicated cooling system was provided for the district main computer room located at the high school. At the elementary school the existing firetube steam boilers were replaced with new modular vertical steam boilers. Air handlers and rooftop units were replaced serving the auditorium, gym and library. A dedicated gravity relief air system was provided throughout the building. The Building Automation Systems (BAS) was replaced and expanded to eliminate the pneumatic controls and accommodate the boiler system and all HVAC equipment associated with the project.

Electrical upgrades included, LED lighting with daylight control for the elementary gym and select classrooms in the elementary

school. The fire alarm system was replaced with an addressable system with carbon monoxide detection and alarm in the elementary school. Auditorium and stage lighting upgrade to LED and audio system upgrades in both the elementary and high school. Exterior LED lighting for security and egress at the perimeter exits and high school parking lot were added or replaced. A dedicated emergency generator was provided for the districts main computer room located at the high school. A GPS clock systems was provided at the high school. Door access control systems were provided at the elementary and high school.

Plumbing scope included replacement of the domestic hot water storage tank system, primary booster pump replacement and various toilet room renovations at the high school. Sewage ejector pumps were replaced, the kitchen grease trap and mop sinks were added in the elementary school. The bathrooms were renovated in the bus garage.

