IPD provided engineering services to support a capital improvement project at Lafayette Central School District, Lafayette JR/SR High School, Grimshaw elementary School and the District Office/Bus Garage sites.

MEP scope of work included engineering for complete replacement of the High school boiler plant, fire tube boilers were replaced with new high efficiency condensing boilers, primary and secondary pumps, piping, controls and stainless steel chimney liner. Mechanical ventilation systems were added for the 2nd floor of corridors B-Wing to provide code required ventilation and to mitigate overheating in summer/fall months. The VAV HVAC system was reworked for the renovated Main and Nurses office suites, large propeller type de-stratification fans for the Cafeteria to provided added comfort and energy savings. The Building Automation Systems (BAS) were expanded to accommodate the new boiler systems and all HVAC equipment associated with the project. District Office and Bus Garage work consisted of removal of the steam boiler system serving the drivers ready room, bus manager’s office, equipment service bays and the Buildings and Grounds Office and providing a high efficiency split heating and cooling system to provide comfort heating/cooling and ventilation for the offices and ready room. High efficiency gas fired unit heaters were used for the service bays. Electrical upgrades included replacement of a portion of the High school’s main switch gear, LED lighting with daylight control for the HS Gym and all renovated spaces, new VOIP phone systems, GPS clock systems, fire alarm upgrade to addressable systems with carbon monoxide detection and alarm and various electrical panel replacements. Auditorium and stage lighting upgrade to LED, exterior LED lighting for security and egress at the perimeter exits and bus loop were added or replaced. Plumbing scope included replacement of the domestic water chlorine contact/storage tank system to meet the NYS D.OH.’s requirements, domestic hot water storage tank replacement, and various toilet room renovations at the high school. Grimshaw elementary received new central domestic water heaters located in the boiler room and serving the main school, addition of a local domestic water heater at the kitchen to provide consistent 140 deg. F water temperature at the kitchen which is located at the far end of the main system. Carbon filtration was added to the domestic water supply.