

**Cincinnati Public Schools
Walnut Hills High School
Cincinnati, Ohio
Completed: 2013
Project Cost: \$56,000,000**



Scope of Services

Dynamix Engineering provided mechanical, electrical, plumbing and technology designs for this 425,000 SF comprehensive school renovation. The project is a full renovation and addition to the existing school. This 7-12 school has the capacity to teach 1,900 students. The school features two gymnasiums, extensive locker rooms, a competitive swimming pool, and a complete music and arts center.

The buildings 18 main air handling units are located throughout the facility. The air handlers are a combination of dedicated outside air units and variable air volume units. The dedicated outside air units served modular active chilled beams through most of the academic areas; variable refrigerant flow systems are utilized in specialty areas such as the historic library, grand entrance and student dining. Variable volume air handlers are utilized for larger assembly spaces including the gymnasium, auditorium and music spaces. The facility also includes a natatorium with specialized air handling system to maintain humidity control. The cooling water plant is provided by high efficiency water cooled modular scroll chillers and the heating water plants consist of gas fired condensing boilers.

This project is seeking LEED Gold certification. In that effort, an energy model was created to simulate the performance of the envelope, HVAC systems and lighting control systems to optimize the system selection process and minimize the energy consumption of the building. System selections included considerations for the historical nature of the building to minimize aesthetic changes while maximizing performance.

**Dynamix Engineering's Role the Project:
Full-Service Engineering Including Mechanical, Electrical,
Plumbing and Technology Engineering
Construction Administration**



Owner: Robin Brandon Robin Brandon | Cincinnati Public Schools | 2315 Iowa St. Cincinnati, Ohio 45206-2395 | (513) 363.0702