

Clyde C. Miller Career Academy High School

St. Louis Public Schools

Location

St. Louis, Missouri

Construction Completion

2004

Construction Cost

\$21 million

DMA Services Provided

Civil Engineering

Structural Engineering



The Clyde C. Miller Career Academy is a three-story, 143,000-square foot vocational high school located in the City of St. Louis. The building is located on the site of an existing high school which was demolished in phases to facilitate a fast track construction schedule.

David Mason & Associates provided all civil, site and structural engineering services. The civil component of this project involved site layout, roadway development, and utility design. Civil site grading design was performed for both the completed project and an intermediate stage after demolition. The structural component of this project involved the design of steel structures for portions of the building and masonry bearing walls for the multi-purpose wing. An exposed structural steel corridor spine was designed to support a glass curtain wall system that extended above the surrounding roofs. Phased demolition plans were prepared for this project, as well as structural and civil documents for construction. David Mason & Associates provided designs of the proposed building and structural design of shoring, and planning for phased demolition of the existing multi-story concrete framed building. These engineering services continued through the construction phase.

The fast track construction project required phasing coordination between an existing building being demolished, and the new high school. Careful review of the contractors procedures were required to maintain the project schedule.

