

CIVIL & STRUCTURAL DESIGN SUPPORT



Pucketts Mill Elementary School

Universal Engineering Sciences, Inc. (Universal) – Atlanta has provided civil and structural design support for numerous county and city school boards throughout North Georgia. Some of the school districts include Gwinnett County (the largest school district in Georgia), Forsyth County (one of the fastest growing counties in the country), Buford City, Heard County, Social Circle City, Harris County, Pickens County, and Oconee County.

Our geotechnical evaluations for civil and structural projects have included full geotechnical design recommendations (including foundation design parameters, slope suitability recommendations, fill suitability, and rock excavation recommendations), seismic site classification determinations using shear wave velocities, and construction materials testing and inspection services.

Recent Example: Universal (Atlanta) was contracted by Gwinnett County Public Schools (ranked eighth in the nation), to perform a geotechnical evaluation on the proposed Pucketts Mill Elementary School. The proposed school will be a two-story building on a 26-acre parcel, with associated driveways, parking and ball fields.

Our geotechnical work included drilling 37 borings across the property and providing a final report detailing our findings. The report contained recommendations regarding foundation types and design pressures, fill suitability, retaining wall design parameters, probability of rock excavation, International Building Code site seismic classification, and pavement design. Construction materials testing was also performed on the project. Included were: soil density testing of in-place fill, concrete testing for foundations and slabs, foundation subgrade evaluations, masonry testing, and evaluation of bolted and welded connections.

