

**Ameren Fleet Garage and Parking at Dorsett Fleet Center
Maryland Heights, Missouri**

Civil Engineering, Surveying and Materials Testing Consultant

Millennia Professional Services provided engineering, surveying and subsequent materials testing services for the design and construction of the new Dorsett Fleet Garage building at the Ameren Dorsett Campus in Maryland Heights, Missouri. Services include geotechnical studies, preliminary site/civil evaluations, surveying and follow-up materials testing services.

Client:

Ameren Services
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The project site is located at the Ameren Dorsett Campus at 12121 Dorsett Road. Within the campus, the project site is located southwest of the intersection of Campus Parkway and Training Drive. Prior to the start of construction, the area was generally used for equipment storage and was surfaced with crushed limestone. The ground surface is relatively level, with overall drainage generally to the north and east.

The project involves a new single-story office building and enclosed vehicle garage with a total area of about 15,000 square feet. The building will be a pre-engineered steel frame structure with metal siding. Structural loads are not expected to exceed 50 kips for columns and 5 kips per lineal foot for walls. A new surface parking lot is included to serve the facility. Cuts and fills for general site grading are not expected to exceed about 3 feet.

A geotechnical study was performed to obtain information concerning subsurface conditions at the site to form conclusions and make engineering recommendations. Millennia performed an exploration program consisting of eight borings, four for the proposed building and four for the parking

lot. The building borings were drilled to a depth of 20 feet each, and the pavement borings will be drilled to a depth of 10 feet.

Land surveyors performed construction layout and staking services for the Fleet Garage facility. Millennia civil engineers provided a letter addressing local flood elevations and recommended a minimum finished floor elevation.

Construction Testing Services Included:

- Soils
- Concrete
- Structural Steel (Sub-consultant PSI)
- Masonry
- Retaining Wall Backfill
- Concrete Reinforcement Steel Documentation

