

Kristi K. Bumpas, PE, LEED AP

PROJECT ENGINEER / PRESIDENT

RED ROCK CONSULTING, LLC

PROFESSIONAL EXPERIENCE

Ms. Bumpas is a project engineer responsible for geotechnical engineering projects and business development. She has extensive experience in soils testing and evaluation, pavement testing and evaluation and project management. Areas of focus include mitigation of expansive soils (including sulfate soils), pavement design and sustainable design through innovative geotechnical applications and foundation recommendations.

REPRESENTATIVE PROJECT EXPERIENCE

- **Wondertorium Children's Museum – Stillwater, OK**
Conducted a geotechnical engineering investigation for a two story museum with an approximate 30,000 square foot footprint. The project also included asphalt and concrete pavement recommendations.
- **Rexall Pharmacy – Moore, OK**
Conducted a geotechnical engineering investigation for a 4,000 square foot single story building with a canopy. The project also included asphalt and concrete pavement recommendations. Significant environmental conditions were encountered during drilling operations.
- **May's Pharmacy – Shawnee, OK**
Conducted a geotechnical engineering investigation for a 15,000 square foot single story building with a canopy. The project also included asphalt and concrete pavement recommendations.
- **Chickasaw Nations Campus – Norman, OK***
Conducted geotechnical engineering investigation for an approximate 80 acre site with three 3 to 4 story office buildings, a parking garage and associated parking and drives.
- **Bricktown Retail Building – Oklahoma City, OK***
Conducted geotechnical engineering investigation for a 2 story structure on a site with undocumented and soft fill material. This project utilized a unique foundation system for shallow footings by using geogrid reinforcement.
- **Bridgewater Office Park – Edmond, OK***
Conducted geotechnical engineering investigation in expansive soils for twelve single story office buildings. The project also included asphalt and concrete pavement recommendations.
- **Tuscany Village Nursing Home – Oklahoma City, OK***
Conducted geotechnical engineering investigation for the construction of an approximate 69,000 square foot single story nursing home. The project also included asphalt and concrete pavement recommendations.
- **Old Towne Square Apartment Building – Lawton, OK***
Conducted geotechnical engineering investigation in expansive soils for the construction of a 3 story apartment building with an approximate 10,000 square foot footprint. The project also included asphalt and concrete pavement recommendations.

EDUCATION

Bachelor of Science, Civil Engineering,
Oklahoma State University

Masters Courses, Geotechnical Engineering,
Oklahoma State University

REGISTRATION

Oklahoma PE

Texas PE

AFFILIATIONS

American Society of Civil Engineers,
Past President

ASCE Geo Institute, Oklahoma Chapter
Secretary, Founder

American Council of Engineering Companies

Society for Marketing Professional Services

Edmond Chamber of Commerce

WORK HISTORY

Red Rock Consulting, LLC
Project Engineer, 2009 - Present

Shepherd Geotechnical Engineering, Inc.
Project Engineer, 2007 – 2009

Shepherd Engineering Design Co., Inc.
Project Manager, 2005 – 2007

Professional Services Industries, Inc.
Project Manager, 2003 – 2005

- **OK State Medical Association Building – Oklahoma City, OK***
Conducted geotechnical engineering investigation for construction of an approximate 16,000 square foot single story office building. The project also included asphalt and concrete pavement recommendations.
- **KYAL Radio Tower – Warner, OK***
Conducted geotechnical engineering investigation for the construction of a 2,000-foot guyed radio tower.

* Project was completed under previous employment