

Kristi K. Bumpas, P.E., LEED AP

PROJECT ENGINEER / PRESIDENT

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

- **Oakridge Elementary School Addition – Oklahoma City, OK**
Conducted geotechnical engineering investigation for an approximate 15,000 square foot single story addition. The project also included asphalt and concrete pavement recommendations.
- **Walters Headworks Improvements – Walters, OK**
Conducted geotechnical engineering investigation for an approximate 600 square foot below-grade lagoon headworks structure.
- **19th Avenue Waterline – Stillwater, OK**
Conducted geotechnical engineering investigation for approximately 1 mile for a new waterline.
- **Newcastle Waterline – Newcastle, OK**
Conducted geotechnical engineering investigation for approximately 2 miles for a new waterline that will be constructed beneath the Canadian River.
- **Southwest 164th Street Waterline – Oklahoma City, OK***
Conducted geotechnical engineering investigation for approximately 2.7 miles of construction for a new 48 inch waterline.
- **Sanitary Sewer Creek Crossing – Edmond, OK***
Conducted geotechnical engineering investigation for two sites where sanitary sewer lines crossed creeks. The recommendations included shallow footings underlain by a geotextile fabric-encapsulated aggregate base.
- **ECU Hallie Brown Ford Fine Arts Center – Ada, OK***
Conducted geotechnical engineering investigation in expansive soils for an approximate 85,000 square foot, 2 story building containing performance theatres, conference rooms and classrooms.
- **Oklahoma City Zoo Asia Exhibit – Oklahoma City, OK***
Conducted a geotechnical engineering investigation for the construction of an Elephant Habitat with theatre, pond and barn. The project also included a pedestrian boardwalk and tunnel, a canal, Habitat Complex, Hoof Stock Barn, Rhino Maternity Barn and all associated fences.
- **Multiple Pavement Evaluations – Various Sites in Oklahoma**
Conducted pavement and subgrade evaluations, including FWD testing, for residential and commercial streets, highways and turnpikes across Oklahoma.

* Project was completed under previous employment

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