



## PERSONNEL QUALIFICATIONS

### Matthew T. LeBlanc | Senior Associate



#### EDUCATION

- Louisiana Tech University
  - Bachelor of Science, Civil Engineering, 2000
- University of Texas at Austin
  - Master of Science, Geotechnical Engineering, 2007
  - Doctor of Philosophy, Geotechnical Engineering, 2013

#### PRACTICE AREAS

- Foundations
- Earth Retaining Structures
- Transportation
- Distressed Structures
- Failure Analysis

#### REGISTRATIONS

- Professional Engineer in CO and TX

#### PROFESSIONAL AFFILIATIONS

- American Society Civil Engineers
- Society of American Military Engineers

#### CONTACT

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#### EXPERIENCE

Matt LeBlanc joined WJE in 2021 with more than twenty years of experience as a civil engineer in the areas of geotechnical engineering, highway and airfield pavement evaluation and design, construction management, and engineering education.

Prior to joining WJE, Dr. LeBlanc served for more than twenty years as a United States Air Force Civil Engineer Officer, spending over six years of his career teaching undergraduate and professional continuing education at the U.S. Air Force Academy and the Air Force Institute of Technology. He was assigned to multiple worldwide installations, supporting U.S. and coalition forces by managing the planning, design, and construction of airfields, roads, and support facilities. Dr. LeBlanc also led U.S. Air Force engineering public works departments that were responsible for operations, maintenance, and disaster recovery of airbase infrastructure.

#### REPRESENTATIVE PROJECTS

##### Foundations

- Ledyard Wind Turbines - Kossuth County, IA: Third-party review of shallow foundation numerical modeling and design
- Underground Fuel Tank Removal - Nashville, TN: Stability analysis of billboard drilled shaft foundation adjacent to proposed excavation
- San Tomas Square - Santa Clara, CA: Estimation of concrete pile load-deformation curves for litigation consulting services
- Deerbrook Mall - Houston, TX: Design of interior basement perimeter trench drain

##### Earth Retaining Structures

- Water Tank Rock Face Stabilization - Colorado Springs, CO: Construction phase services for rock pins and shotcrete facing installation and testing
- Timber Retaining Wall - Firestone, CO: Evaluation of as-built construction, condition assessment, and repair recommendations

##### Transportation

- I-55/I-70 Bridge - St. Louis, MO: Liquefaction analysis of bridge piers and review of temporary shoring design

- I-635 - Dallas, TX: Piezometer installation and groundwater level monitoring and lab testing
- Airbase 201 - Agadez, Niger: Planning and execution of new airfield construction in remote location of northwest Africa \*
- Special Operations Hangar and Aircraft Parking Ramp - Al Udeid AB, Qatar: Analysis of construction sequencing and design of expedient concrete jet blast deflector \*
- F-16 and C-130 Beddown - Manas AB, Kyrgyzstan: Short-notice assessment of 190,000 square feet of airfield pavement \*
- Taxiway and Parking Apron - Chabelley AB, Djibouti: Layout redesign for cargo and remotely piloted aircraft operations \*

#### Distressed Structures

- Metzler Ranch - Castle Rock, CO: Subsurface exploration, bearing capacity calculation, and safety assessment of tilting clay tile silo
- Gateway Church - North Richland Hills, TX: Subsurface exploration of exterior foundation perimeter drain and identification of potential sources of moisture infiltration into flooring
- Private Residence - Santa Fe, NM: Investigation of differential movement and associated distresses in stucco structure supported on micropiles in expansive clay
- Expansive Soils - Front Range of CO: Evaluation of residential and commercial structures with foundation movement due to expansive soils
- Operations and Support Facilities - Barksdale AFB, LA: Damage assessment of roofs and roadways after Hurricane Rita \*

#### Failure Analysis

- Precast Parking Garage - Schaumburg, IL: Assessment and analysis of excessive foundation settlement during construction
- Water Pumping Station - Arnold AFB, TN: Investigation of pump motor failure and development of remediation measures \*

\* Projects performed while with the U.S. Air Force