

# LGCI

Lahlaf Geotechnical Consulting, Inc.

*...delivers sound, practical, and cost-effective geotechnical solutions.*



## Who We Are

Lahlaf Geotechnical Consulting, Inc. (LGCI) is a geotechnical consulting company based in Billerica, Massachusetts and operating in Massachusetts and Rhode Island.

We apply a fresh approach to old geotechnical problems by utilizing the agility and responsiveness of a small company, while exercising a broad and knowledgeable geotechnical expertise.

## Our Clients

We provide services for clients in both the public and private sectors, including architects, engineers, contractors, developers, state agencies, municipalities, and private owners.

LGCI holds the MBE and DBE certifications in Massachusetts and Rhode Island, and is prequalified for geotechnical services by MassDOT.

# Our Services



## Geotechnical Studies

- Feasibility and site selection studies
- Shallow and deep foundations
- Specialty foundations
- Ground improvements
- Seismic design
- Rock blasting
- Vibration control and mitigation
- Instrumentation
- Peer reviews



## Construction Services

- Preconstruction condition surveys
- Geotechnical construction specifications
- Construction observations
- Underpinning recommendations
- Dewatering
- Vibration monitoring



## Forensic Engineering and Failure Analysis

- Slope failure analysis
- Pavement evaluations – repair and design
- Settlement assessment and control
- Retaining wall failure investigations
- Expert testimony



# Representative Projects



**New Boston Street Bridge Over  
MBTA Track**

**Location:** Woburn, MA

**Owner:** City of Woburn

**Client:** VHB

**Services:**

- Soil borings and probes
- Ground improvement
- MSE walls
- Drilled shafts
- Vertical and lateral load analyses
- Support of excavations



**Newton Highlands MBTA Green  
Line Subway Station**

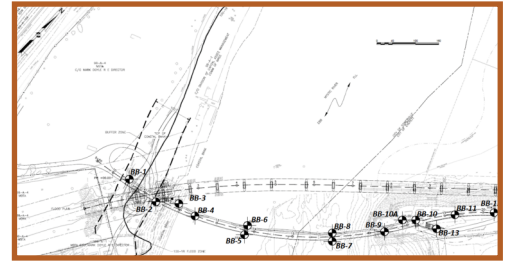
**Location:** Newton, MA

**Owner:** MBTA

**Client:** Nitsch Engineering

**Services:**

- Soil borings, test pits, and probes
- Lateral load analyses
- Micropiles
- Retaining walls
- Slope stability
- Support of excavations



**Mystic River Pedestrian Bridge**

**Location:** Somerville/Everett, MA

**Owner:** Wynn MA, LLC

**Client:** AECOM

**Services:**

- Deep (land and water) borings
- Data report



**Mystic River Boardwalk**

**Location:** Medford, MA

**Owner:** City of Medford

**Client:** Nitsch Engineering

**Services:**

- Deep (land and water) borings
- Helical piles
- Shallow foundations



**Billerica Memorial High School**

**Location:** Billerica, MA

**Owner:** Town of Billerica

**Client:** Perkins + Will

**Services:**

- Soil borings and test pits
- Shallow foundations
- Athletic fields
- Soil nail support of excavation
- Reuse of onsite materials
- Construction monitoring
- Permeability testing in athletic fields



**Public Safety Facility**

**Location:** Dedham, MA

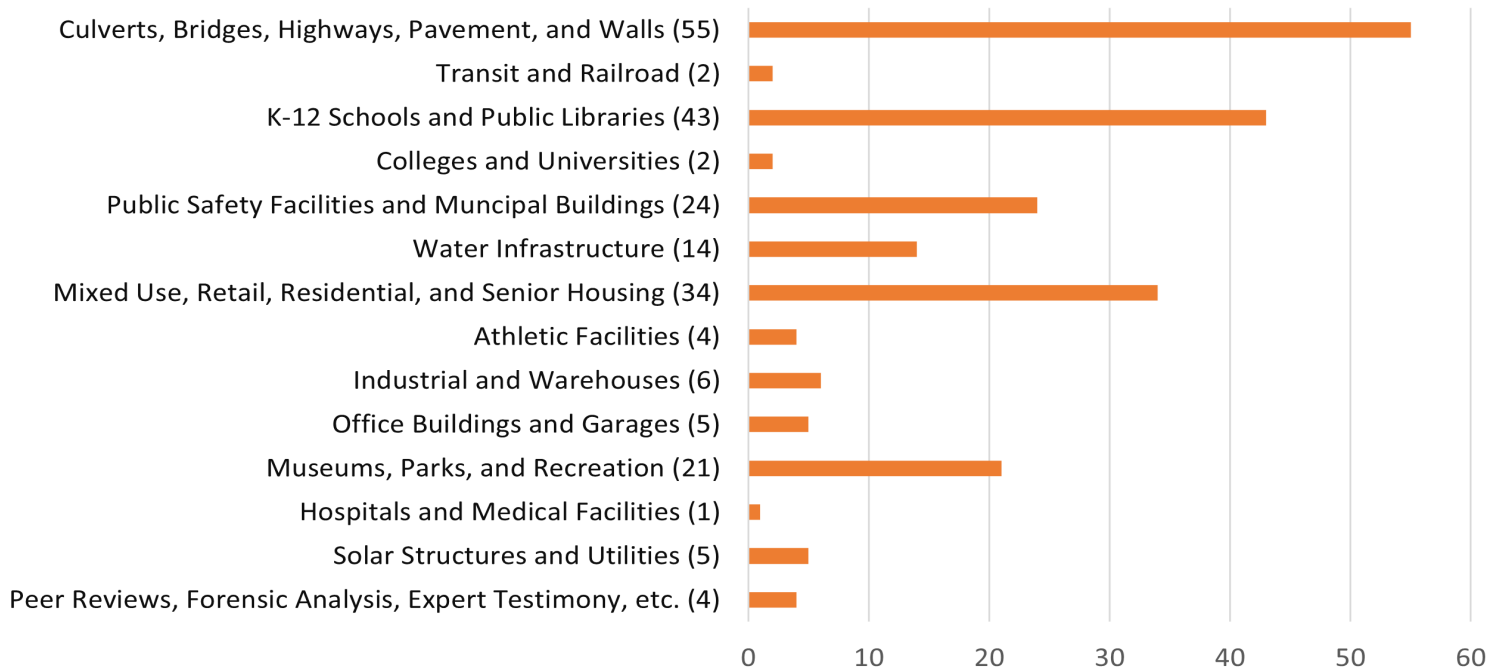
**Owner:** Town of Dedham

**Client:** Dore + Whittier

**Services:**

- Soil borings and test pits
- Soldier pile and lagging SOE
- Soil nail walls
- Deep ground improvements
- Liquefaction mitigation
- Instrumentation monitoring

## LGCI Projects by Category (last 5 years)



## Company Culture

LGCI does not discriminate in employment opportunities or practices because of race, sex, national origin, color, religion, age or disability. We make employment decisions on the basis of merit and strive to hire and retain the most qualified person available for every position. In doing so, we also believe that having a diverse and inclusive team of employees positively impacts our project performance and helps us better serve our clients and the broader community.

We are on a journey to learn and grow, to appreciate cultural differences of all types, and to make room for employees to bring their authentic selves to the workplace.

LGCI is committed to advancing a culture of diversity, inclusion, and belonging because it makes us a stronger and more successful company, and aligns with our values and mission.

## Contact Information

100 Chelmsford Road  
Suite 2  
Billerica, MA 01862

Phone: 978-330-5912  
Fax: 978-330-5056  
[www.lgcinc.net](http://www.lgcinc.net)  
[lgci@lgcinc.net](mailto:lgci@lgcinc.net)