

# Matthew Lehmenkuler, P.E.

## PROJECT MANAGER

### PROFESSIONAL EXPERIENCE

Mr. Lehmenkuler is a Project Manager in Terracon's Cincinnati office and is familiar with multiple aspects of construction materials testing and inspection including soil, concrete, asphalt, and steel. His skills include coordinating and managing quality control, testing, and inspection projects. His project experience involves private commercial projects and public transportation experience, including highways and airfields.

### PROJECT EXPERIENCE

As a materials engineer, Mr. Lehmenkuler is responsible for field inspection, testing of soil and concrete, soil identification, review of project specifications, engineering analyses soil, concrete, asphalt and steel, and preparation of engineering reports.

#### **Commercial Cargo Air Hub at CVG International Airport, Boone County, KY 2019-current**

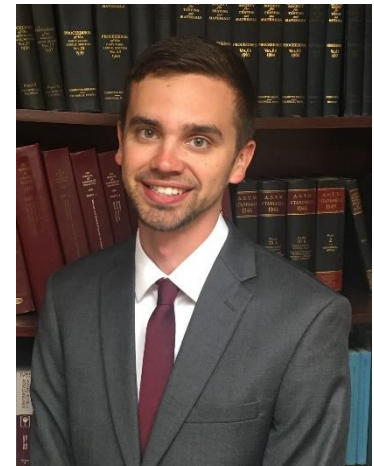
This project consists of the development of 500+ acres of partially-wooded terrain into a large-scale commercial cargo air hub, estimated construction cost of \$1.5 billion. The project includes the extension and improvement of airport infrastructure, a parking garage, and employee support structures. Services include a geotechnical exploration with 400+ test borings and complete geotechnical analyses of the findings to develop recommendations for pavement, foundation, retaining wall and utility design. QC and QA testing and inspection, earthwork density and observation, concrete, reinforcing steel, structural steel, deep and shallow foundations, and laboratory soils testing. Management of a technician staff of over 30 certified inspectors during the peak of construction including subconsultants.

#### **Southern Ohio Veterans Memorial Highway (Portsmouth Bypass), SCI-823-0.00, Scioto County, OH 2016-2018**

Project Manager for the \$634M Portsmouth Bypass which is a 16-mile, four-lane, divided, limited-access highway around the City of Portsmouth in Scioto County, Ohio. Construction began in June of 2015 and was completed in November of 2018. Construction activities included the placement of over 20 million cubic yards of embankment, new construction of 21 bridges, and the installation of 2 precast tunnels. Inspections performed on embankment, proof rolls, and during culvert installations. Other quality control inspections performed included MSE wall inspection, driven piles, reinforcing steel inspections, concrete placement monitoring inspections. During the construction of the project, he was involved in the construction inspection of 21 bridges including multiple steel girder bridge. He managed the safety inspection of completed bridges according to DOT requirements. Inspections are reported daily in IDR's. Matt attended Quality Checkpoints (QCP's) as Terracon representative and attended regular quality meetings and progress meetings at the site and was responsible for reviewing and submitting IDR's and test results into the Electronic Document Management System (EDMS) within 24-hours of an inspection/test. Managed a technician staff of over 22 certified inspectors during the peak of construction on the project in 2016, as well as a DBE subconsultant. Set up and maintained AASHTO/AMRL accredited laboratory on the site for concrete compressive strength testing. Managed the geohazard inventory for the completed alignment in accordance with applicable DOT manuals.

#### **Rock and Soil Slope Inventory, Portsmouth Bypass Project, SCI-823, Scioto County, OH 2017-2018**

Field Team member involved in the completion of the rock slope and landslide inventories for this project. The methodologies utilized for performing the inventories were dictated by the ODOT Manual for Rockfall Inventory and the ODOT Manual for Landslide Inventory. These two inventory methodologies are similar in that they are both "tiered" such that low risk sites receive minimal attention while higher risk sites are rated in significantly more detail. The ODOT Scope of Services requires all rock slopes to be rated as Tier 1 (lowest risk) sites and all landslide sites to be categorized as Non-Rated at end of construction. Terracon completed site reconnaissance for the evaluation of rockfall and landslide sites utilizing survey-grade GPS equipment and compiled field data utilizing ODOT's custom software utilized for data collection and management. Received rope access certification training as well as required ODOT training from Office of Geotechnical Engineering, Roadways and Geohazards Division. Rappelled down numerous rock cuts on SCI-823 during the rockfall inventory. Completed rating of all rock cut slopes and landslide sites on the project.



### EDUCATION

Bachelor of Science, Civil Engineering,  
University of Cincinnati; 2015

### CERTIFICATIONS

Licensed Professional Engineer – Ohio

National Institute for Certification in  
Engineering Technologies (NICET)

FHWA-NHI Safety Inspection of In-  
Service Bridges

Ohio Department of Transportation  
Prequalified Project Inspector

OSHA 10-HR Construction Safety

### AFFILIATIONS

American Society of Civil Engineers  
(ASCE)

Structural Engineering Association of  
Ohio (SEAO)

### WORK HISTORY

Terracon Consultant, Inc.  
2015-Present  
Project Manager  
2014-2015  
Co-op

Walsh Construction  
2012-2013  
Co-op

Ohio Department of Transportation  
2010-2011  
Co-op

### **Charlotte Douglas International Airport, Charlotte, NC**

Contributed to projects at the Charlotte Douglas International Airport including demolition, renovation, and/or construction of Parking and Rental Car Facility, West Terminal, Checked Baggage, and Jet Fuel Vault. Contributed to a 3-D scanning for modeling, column layout and identification, quantity estimates and take-offs, change order creation and cost tracking, and pre-existing condition surveys. Acquired training in safety, project management software, and human resources (business ethics).

### **Meldahl Hydroelectric Power Plant, Foster, KY**

Contributed to a quality control team tasked with verification of rip-rap gradation. A total of 8 rip rap gradation tests were performed on Types A, B and C rip rap, to meet project specifications for size and weight grading. Over 125,000lbs. of stone was moved and measured to prove compliance with the project plans and specs. Analyzed size and weight data to prepare client reports of results. Also, was part of a drilling crew that grouted monitoring wells to meet environmental standards.

### **Louisville-Southern Indiana Ohio River Bridges Project – East End Crossing, Prospect, KY**

The \$763M Ohio River Bridges East End Crossing project includes financing, design, construction, and operation and maintenance for 35 years of a 2,510-foot main span, twin-tower cable-stayed bridge across the Ohio River that will link Prospect, KY and Utica, IN; a 1,800-foot twin-bore tunnel; and 19 additional bridges, along with associated roadway improvements and other related infrastructure work. Contributed to joint venture project between Walsh Construction and Vinci Construction Grands Projects outside of Louisville, KY, including a cable-stay bridge over the Ohio River, tunnel under historical landmark, and new highway connecting existing to new construction. Managed material approval, estimates and takeoffs, material ordering, and daily project scheduling. Acquired safety training.

### **ADDITIONAL PROJECT EXPERIENCE**

- 5<sup>th</sup> and Race - Dunnhumby Office Building – Cincinnati, OH, quality control testing of reinforced concrete
- IDI Warehouses – Crestview, KY, quality control testing of reinforced concrete
- Various Kroger Projects – Cincinnati, OH
- SR 73 Bypass – Wilmington, OH
- US 35 Bike Path Tunnel – Xenia, OH