

Modular Block Retaining Wall Construction Observation and Testing

- Verify bearing soils, leveling pad preparation, block type, and geogrid types, lengths (if used)
- Monitor compaction of wall backfill, installation of geotextile fabric, and drains

Pavements Monitoring and Testing

- Monitor subgrade stabilization
- Verify pavement layer thicknesses, compaction, and temperature, as required

Concrete Masonry Units (CMU) Observations and Testing

- Document horizontal and vertical steel reinforcing installation
- Monitor CMU placement and grout placement
- Cast grout cubes or prisms as needed

Post-Tensioned Slab Installation, Tensioning Monitoring and Testing

- Observe slab construction and sleeve placement for tendons
- Monitor and document tendon tensioning

Special Inspections Reporting

- Review and preparation of Special Inspection reports



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Director of Business Development

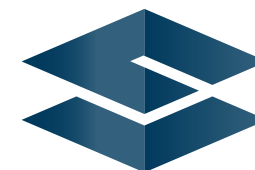
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SCAN ME

Construction Materials Testing & Inspection



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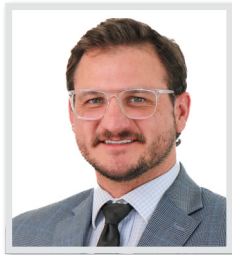


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TEAM & EXPERIENCE

Civil Solutions is a geotechnical and civil engineering firm located in Cincinnati, Ohio, and offers construction materials testing and inspection services to owners and contractors. Our team has vast experience and is supported by an engineering design and construction team that understands the complexities of project management and performance. We ensure that proper materials, methods, and site conditions are present and delivered per specification.



Andrew Lageman, P.E.
President

MS Geotechnical Engineering,
University of Kentucky (2007)
BS Civil Engineering,
University of Kentucky (2006)

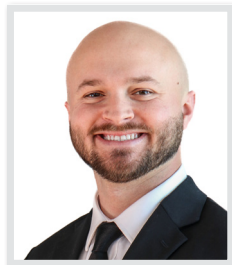


Justin K. Amlung, P.E.
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MS Civil Engineering,
University of Oklahoma (2020)
BS Civil Engineering,
University of Louisville (2013)



Daniel Kennedy
Field Services Manager
BS Geology, Hanover College



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Director of Field Services

Bulk Earthwork and Site Grading Testing and Inspection

- Monitor placement and compaction of earth fill
- Provide compaction testing using nuclear density gauge at industry standard intervals

Site Utility Installation Monitoring

- Monitor site utility excavations and backfilling

Shallow Foundation and Slab on Grade Installation Monitoring and Testing

- Observe foundation excavations and perform testing near the bearing surface to document the approximate shear strength of the soil

Deep Foundation Installation (Including Horizontal Anchors) Monitoring and Testing

- Verify materials, drill depths, and drill diameters for deep foundations including drilled piers, Geopiers, helical piles (installation torque), micropiles, driven piles, and others
- Cast concrete cylinders and grout cubes in the field for compressive strength
- Verify anchor materials and lengths; monitor horizontal anchor installation and tensioning

Cast-In-Place Concrete Observations and Testing

- Sample fresh concrete and perform field tests including slump, air content, and temperature and cast test specimens
- Cast test specimens at a rate of one set of five cylinders for every 100 cubic yards of structural concrete placed
- Perform compressive strength tests of concrete test cylinders cast in the field
- Document steel reinforcement placement (if present) for compliance with project plans.

