

# Construction Engineering and Inspection

GAI Consultants monitors the daily activities and building materials that are critical to Construction Engineering and Inspection (CEI) projects with the following in mind—client service, construction integrity, and a successfully completed project. Whether GAI provides transportation construction monitoring, construction engineering and inspection for development, or construction management services for massive energy facility projects, our pool of resident engineers and construction specialists skillfully address the distinct construction challenges of clients in all industries.

Fully understanding the importance of project team communication and public information processes means project impacts are avoided and goals are met.

GAI's engineering and inspection services cover all elements of the building process. We start by evaluating each construction project before

it begins, tailoring staff and resources to fit the need, and setting a tone of cooperation and close communication. GAI uses pre-construction meetings with client, owner, contractors, and subcontractors to outline communication methods, detail change order and pay request processes, and emphasize milestone completion dates. We believe successful pre-construction conferences are the basis for superior project performance.

GAI's construction professionals test construction material quality, inspect workmanship, and monitor on-site construction safety. Our services often include progress and materials reporting, shop drawing review, plan interpretation, pay request administration, claims and disputes resolution, and more. We follow each stage of construction to verify that the work is executed in accordance with the contract documents, and administer concrete, bituminous material, steel, and soil sample testing.

GAI understands the importance of implementing public information processes that keep all project



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## Service Profile



stakeholders well informed. We work with each client to prepare public outreach programs as needed, and when construction is complete, we submit a detailed report to the client. Our final reporting summarizes overall performance and includes a full evaluation of the established goals and objectives.

GAI's project portfolio includes construction services for major highways and bridges, large-scale site developments, wastewater treatment plants, industrial facilities, and power plants. We specialize in complex, multiphase construction projects for state agencies, municipalities, institutions, private developers, and power providers. Our repeat success is based on building trusted relationships with clients and contractors, and helping them meet their project goals.

As a client's eyes and ears, GAI provides quality control and cost protection throughout the building process so the work meets or exceeds quality standards. Clients' projects are professionally delivered with minimal or no construction delays, cost overruns, or safety violations.

### Construction Engineering and Inspection Services

- Pre-construction project evaluation and conference
- Post-construction inspection and evaluation
- Value engineering
- Biddability and constructability reviews
- Cost estimating
- Scheduling
- Permit approval
- Construction inspection and monitoring
- Project management
- Contract administration
- Progress reporting
- Change order review and processing
- Supplier/construction deliveries
- Shop drawing review and plan interpretation
- Contractor quality control program monitoring
- Project closeout
- Public outreach

### GAI Services Summary

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| ■ Airport Planning and Design                        | ■ Impoundment and Landfill Permitting and Design |
| ■ Bridge and Structure Inspection and Design         | ■ Land Development Engineering                   |
| ■ Coal Combustion Residuals Management               | ■ Landscape Architecture and Design              |
| ■ Construction Inspection and Management             | ■ Master Planning and Urban Design               |
| ■ Cultural Resources Management                      | ■ Mechanical, Electrical, Structural Engineering |
| ■ Economic Analyses and Strategies                   | ■ Natural Gas FERC Certification and Permitting  |
| ■ Electric Transmission Design and Siting            | ■ Nuclear Energy Engineering Support             |
| ■ Environmental Engineering                          | ■ Right of Way and Appraisal Support             |
| ■ Environmental Studies, Species Studies, Permitting | ■ Land Surveying and Mapping                     |
| ■ Gas Pipeline Surveying and Mapping                 | ■ Transportation Planning and Design             |
| ■ Geographic Information Systems (GIS)               | ■ Utility Management Consulting                  |
| ■ Geotechnical Engineering and Geology               | ■ Water, Stormwater, Wastewater Management       |

The scope of professional services that are provided by or offered out of each GAI office including, but not limited to, engineering and surveying services, is governed by the professional and business licensing requirements of each individual State or jurisdiction in which the GAI office is located and whether GAI has the requisite professional and business licenses for that State or jurisdiction. Nothing on GAI's Web Site or marketing materials is intended to be interpreted or construed as offering to perform professional licensed services where prohibited unless the licensing requirements have been met. Engineering services are not offered out of GAI's Northern Kentucky (Florence) office location. Surveying services are not offered out of GAI's Illinois location or by our New York subsidiary.