

# Transforming the Way We Travel

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## Transportation

# 60<sup>+</sup> YRS

reputation of delivering  
innovative engineering  
solutions.



GAI designed the new  
**MLK Jr. Parkway /21st Street  
Interchange** in Jacksonville, FL  
to provide improved access to  
the Port of Talleyrand. Our design  
innovations reduced the owner's  
budgeted costs by 50%.





## Transforming the Way We Travel

The Transportation industry faces huge challenges: providing efficient intermodal transportation systems that ensure both safety and quality of life for our communities, while managing rapid travel growth, congestion, aging infrastructure, and the search for alternative funding sources.

With a comprehensive perspective, GAI envisions the big ideas that lead to smart solutions for our clients' biggest transportation challenges. Our approach to project delivery focuses on the entire project lifecycle and the result is efficient and maintainable solutions.

Timely, quality, and award-winning solutions are critical to transportation projects, whether they involve complex roadway design, major bridge design/rehabilitation, construction management, design-build project delivery, airport planning and design, or train control systems. And through public partnerships, trusted stewardships, and smart project management, GAI carefully balances funding resources with transportation programming objectives.

Investing in our people—developing and attracting the best technical professionals and project managers in the industry—demonstrates our firm commitment to understand and meet our transportation clients' needs. Our professionals have the expertise to tackle the most critical, high priority transportation projects.

Because we know clients' needs change, we continuously train our staff in the most effective project management and engineering solutions. In partnership with our clients' staff we become trusted advisors—providing smart, constructible, and sensible ideas.

GAI promises a forward-thinking mentality and the expertise to solve issues before they become problems. That means clients' projects run smoothly, come in on time and on budget, and life just got a little bit easier.

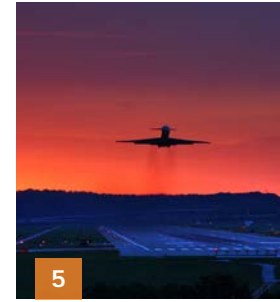
**Smart solutions, big ideas,  
and trusted partnerships...**

*it's all in our people.*



gai consultants®





### **Complex Roadway Engineering**

From major urban interchanges to critical local roadways, GAI's highway expertise helps clients meet tomorrow's transportation infrastructure challenges, while managing today's limited resources.

### **Bridge Design, Rehabilitation, and Management**

GAI's experienced structural staff specializes in the design, rehabilitation, and management of transportation-related structures, including complex bridges and overpasses, retaining walls, and culverts. We provide functional, cost-effective, and maintainable infrastructure solutions.

### **Construction Management**

From construction contract administration to field inspection and testing, GAI provides comprehensive support to help clients manage the project delivery process. We look ahead to resolve the big issues before they become problems.

### **Design-Build Project Delivery**

By selectively partnering with premier construction firms, GAI efficiently moves projects from concept to completion. Through innovation and value engineering, we accelerate delivery and build trust with project stakeholders.

### **Aviation**

GAI brings a comprehensive approach to aviation projects with innovative planning strategies and practical design concepts.

### **Train Control Systems**

With innovative engineering principles applied to sound design concepts, GAI helps clients address a broad range of train control system issues in the transit and railroad industry. Our ability to support clients with a variety of technologies from all major suppliers enables us to meet the needs of installation contractors and agencies.

1 State Road 115 (MLK Parkway) / 21st Street Interchange, FL 2. Rubles Run Bridge, WV  
3. JIA Access Road and Interchange, FL 4. Avenues Walk Flyover, FL 5. Pittsburgh International Airport, PA 6. H Street / Benning Road Street Car, Washington D.C.



We invest in our staff, developing and attracting the best technical professionals and project managers in the industry. They have the expertise to tackle the most critical, high priority transportation projects.



## **AWARD WINNER**

**ERIE BAYFRONT CONNECTOR, ERIE, PA**

- ASCE Civil Engineering Achievement Award
- ESWP Project of the Year - Transportation
- PPHQ Quality Award - Community Support and Customer Focus
- PPHQ Environmental Award
- PPHQ Quality Award - Highway Enhancement



GAI redesigned the **Interstate 295** diamond interchange in Jacksonville, FL into a single-point urban interchange to accommodate higher turning volumes into the University of North Florida entrance. The single span bridge structure is one of the longest post-tensioned Florida Bulb Tee bridges in the state.



# 2,072<sup>FT</sup>

## DUAL TRESTLE BRIDGES

Working with local permitting agencies, GAI adhered to strict environmental guidelines to design and construct I-295 over the pristine wetland habitat known as Sawmill Slough.





### About GAI Consultants, Inc.

Transforming ideas into reality<sup>®</sup> since 1958, GAI is an engineering, and environmental consulting firm providing local expertise to worldwide clients in the energy, transportation, development, government, and industrial markets.

### What We Do

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

# ARRA

## DESIGN-BUILD

Teaming with the Walsh Group (Archer Western), GAI served as prime consultant for the future I-795 in Jacksonville, FL—a 3.5-mile divided highway designed to Interstate standards with an aggressive FDOT schedule.



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