Centennial Plaza is a historical site which once housed a Veterans Administration facility. It is currently in the process of being converted to a traditional neighborhood development. GSE provided topographic and tree surveying to aid in the design of the site improvements. Civil design for the overall site has included infrastructure improvements. GSE has also provided civil engineering services for the Holiday Inn resort, which is the first anchor tenant for this development. GSE will continue to provide services as new phases are developed.

University of Mobile is a private Baptist university which has seen rapid growth since its inception in 1952. This growth has warranted the addition of new residence halls, additional student parking areas, new baseball field house and main entrance redesign. GSE completed ALTA and subdivision platting of the entire campus property. Performed several topographic surveys on campus which aided in the design of all updates throughout the campus.

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Along with being the engineer of record for Airbus Final Assembly, GSE was the third party certifying surveyor for Brasfield and Gorrie during the construction of the final assembly line and logistics building. GSE survey crews also performed construction layout for several contractors. This included layout for the overhead cranes, baseline and station points in the final assembly line. Additionally, GSE was selected as the layout surveyors of record for the MAAS Aviation paint hangar. Lastly, GSE survey crews performed pile As-Builts on all buildings on-site.

GSE utilizes a Leica P20 Scanstation for a variety of applications and through experience has discovered that even the more complicated projects can be completed with ease when utilizing a 3D scanner. Application of a 3D scanner include, but are not limited to, raw material volume documentation, site as-built, pipe and steel modeling of existing facilities for retrofit, and roadway surveying. Due to the effectiveness and timeliness, 3D scanning has allowed GSE to complete projects for clients that would not traditionally need a surveyor.

GSE performs site design and site layout services to assist clients in planning their developments. We work with our client to understand their needs for the project. Our staff then researches the local, state and federal codes for the project location at hand and combines this information to find the most economical, efficient and permitable layout and design for the project.

GSE provides full design services for paving, grading and drainage projects. We utilize the latest software to model stormwater systems. The sizes of these systems range from small commercial developments to large industrial sites with complex multi-faceted systems. Our engineers and designers are proficient in stormwater design for both water quality treatment and water quantity attenuation.

GSE provides services prior to construction including contractor selection assistance and bid analysis. GSE provides services during construction including construction observation, SWPPP/erosion and sedimentation control monitoring services and full time on-site construction monitoring, if required. Post-construction services include assistance with close out paperwork, as-built drawing review and construction certification, if required.

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GSE has worked hard to gain the respect of state and local regulatory agencies with our professionalism and adherence to quality standards, as well as our vigilance on behalf of our clients. Our in-depth knowledge of the regulations ensures our ability to anticipate the challenges. GSE provides the following permitting services: application preparation, plan submittal, response to review comments and any necessary meetings with permitting agencies. We strive to streamline this procedure to ensure the client receives their documents as quickly as possible.

- Developers
- Private Landowner
- Industrial Facilities
- Commercial Properties

GSE provides survey and civil engineering services for the 216 unit multi-family development. GSE provided civil design and permitting services for the 23 acre gated apartment complex. Scope of work included site plan, paving, site grading, storm water management system, utility design, erosion and sediment control, and construction observation and certification. Previous to commencing design, GSE also performed topographic and boundary survey of the property.

Perform squareness surveys of overhead and container cranes, wheel surveys for cranes to confirm alignment and tilt, as well as, runway straightness, span and elevation as required by the crane manufacturers and national standards. Improper tracking leads to premature wheel and rail wear, resulting in costly repairs and downtime.

- Industrial Facilities
- Ports and Harbors
- Crane Service Companies

GSE provides survey and civil engineering services for Mobile County Pay-As-You-Go roadway projects. Survey services include right of way survey, map and deed preparation, and field monumentation. Civil Engineering design includes roadway centerline alignment, profile, cross sections, drainage facilities, intersection design, pavement sections, erosion and sediment control, traffic control, utility coordination and cost estimate development. Construction services include bid evaluation, full time on-site monitoring, review of geotechnical tests, monthly pay estimate preparation, and As-Built documentation.

GSE has supported SSAB with full engineering design, survey, and 3D scanning for over a decade. Civil projects include roadway design and modifications, drainage studies which led to numerous improvements, site grading, rail spur modifications, and utility coordination. GSE’s 3D scanning capabilities have been utilized at the lime injection, solids handling, vacuum tank degasser, and QL5 facilities. Crane rail surveys were performed in QL6 and Blastech areas. GSE’s survey teams have established horizontal and vertical controls for most of the improvements throughout the site.

GSE provided full engineering services for Bilstein’s first mill constructed outside of Germany. Strategically located to serve the region’s growing automotive industry, the facility is constructed on a 61 acre Greenfield site. GSE provided site layout, paving and grading design, stormwater modeling, water and sanitary sewer service design, coordination of utilities, rail spur design, and permitting with local and state agencies for this project. Phase I included the main steel processing facility with adjacent driveways and access, separate access points for truck/employee/visitor traffic, stormwater collection and detention facilities, and planning for future rail spur.

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CIVIL
- Site Plan Development/Master Planning
- Paving, Grading & Drainage Design
- Stormwater Modeling
- Site Utilities
- Erosion Control/SWPPP
- SWPPP Compliance Inspections
- Roads/Transportation

SURVEY
- Boundary
- Construction Staking
- Elevation Certificate
- Roadway Layout
- Topographic
- Utilities
- Crane Alignment
- Control Surveying
- As-Builts
- Easements
- ALTA Survey
- 3D Scanning

CONSTRUCTION SERVICES
- Permitting
- Construction Inspections
- Cost Estimating
- Program Management
- Construction Management
- Procurement

ELECTRICAL
- Medium Voltage
- Transformers
- Switch Gears
- Ductbank/Distribution
- Substation Layout
- Motors
- Grounding
- Low Voltage
- Panel boards
- MCC/Switch Boards
- Lighting
- Lighting Protection
- Data/Telecom
- Security
- Access Control
- PA Systems
- Wireless Access Points
- Fiberoptics
- Photovoltaics
- Power Studies
- Arc Flash
- Short Circuit
- OCPD Coordination

MECHANICAL
- HVAC Systems
- Plumbing
- Ventilation Systems
- Dust Collection
- Medical Gas
- Hazardous Exhaust Systems
- Paint Booths
- Fume Hoods
- Smoke Evacuation
- Stairwell Pressurization
- Clean Room Design
- Boiler System Design
- Conveyors/Material Handling
- Building Automation
- Energy Modeling

BUILDING
- General Arrangement
- Interior Design
- Life Safety

PROCESS/CHEMICAL
- Piping
- Instrumentation
- PFD
- P&ID
- Equipment Specification
- Pressure Vessels
- Fire Protection
- Stress Analysis

FIRE PROTECTION
- Active System
- Sprinkler/Stand Pipe
- Fire Alarm
- Clean Agent
- Foam
- Passive System
- Life Safety
- Fire Ratings
- Performance Based Solutions
- Insurance/Underwriter Consultation
- Fire and Egress Modeling
- Smoke Management
- Fire Pumps/Water Supply
- Failure Analysis

ABOUT US

Responsible for over $6B in capital investments, GSE is a full-discipline engineering firm licensed in over 25 states. Founded in 1998, GSE has a wide variety of experience in industrial, commercial and government projects. Industrial clients include Airbus Final Assembly line, SSAB Steel Mill, and Mobile Container Terminal. GSE has also completed upgrades to NASA’s rocket assembly facility which is driving America’s new space launch system. Hundreds of commercial designs range from high rise condominiums to restaurants, academic and medical facilities. Founded on the principle of sustainable design, GSE has implemented a controlled growth model to maintain the highest level of quality and personal service.

Licensed States

ALABAMA
- ARIZONA
- ARKANSAS
- COLORADO
- CONNECTICUT
- FLORIDA
- GEORGIA
- INDIANA
- IOWA
- KANSAS
- KENTUCKY
- LOUISIANA
- MARYLAND
- MASSACHUSETTS
- MICHIGAN
- MISSISSIPPI
- MISSOURI
- NEW YORK
- NORTH CAROLINA
- OHIO
- OKLAHOMA
- PENNSYLVANIA
- SOUTH CAROLINA
- TENNESSEE
- TEXAS
- VIRGINIA
- WYOMING