

An aerial photograph of a road intersection with a large, semi-transparent circular graphic overlaid on the right side. The graphic is a thick, dark blue ring. On the left side of the image, there are three vertical blue bars of varying heights, each containing white text. At the bottom, a wide blue horizontal bar contains white text. The background shows a multi-lane road with traffic lights, a parking lot with several cars, and some greenery.

TRUST

INTEGRITY

QUALITY

TRANSPORTATION · INFRASTRUCTURE



Overview

ZAPATA is a full service architectural / engineering (A/E) firm headquartered in Charlotte, NC, that provides creative design and engineering solutions to clients in the public and private sectors.

ZAPATA's success stands on earning our clients' **Trust** by conducting our business with **Integrity** and providing **Quality** products and services every day. We offer in-house services to fulfill your facility and infrastructure design needs, including architecture, civil, structural, geotechnical and MEP engineering.

We set high standards for ourselves and provide an environment where our talented professionals meet the challenges our clients bring us. Our culture encourages teamwork, sincerity, and mutual support. We value an inclusive culture based on diverse backgrounds, experiences and points of view.



Asset Management

Managing a community's infrastructure requires diligent and detailed management of related assets. Our staff is proficient in all areas of infrastructure asset management, including both field inventories and GIS database creation.

Our experience in asset management led us to develop a Web-based infrastructure management system (WIMS) that allows our clients to access their GIS and infrastructure asset data via an Internet-based application.

Multiple users can access and update the system anywhere, anytime without expensive GIS software licenses on each computer. We can customize a system to collect and manage as little or as much data as desired, based on your needs and budget. You can graphically view asset data, detailed maps, photos and plan sheets, and you can instantly print work orders for maintenance tasks.



Roadway

Increasing populations and the resulting traffic are constantly deteriorating roadways and highways. ZAPATA-LJB has the capacity to tackle roadway projects —large or small—in tight time frames. We understand the importance of “constructable” design and strive to provide innovative and cost-effective solutions that are compatible with the communities they serve.

We have completed both geometric and structural design on roadway projects, including interstates, state highways, rural roads, urban multi-lane streets, service roads and bike paths. Our designs include new alignments, widening, reconstruction, intersection improvements, and resurfacing.

We have unique experience with complex intersection design and new service interchanges. We can provide the solution that meets your demands, while delivering on the required schedule, budget and aesthetics.



Environmental Sciences

Concern over the quality of our environment continues to increase. ZAPATA-LJB has an integrated team of environmental scientists, biologists, geologists, cultural resource specialists, environmental planners, and engineers to effectively address any environmental challenge.

When property is transferred, infrastructure is expanded or a new site is ready to be developed, environmental compliance is necessary and often investigations and cleanup are required. We understand that there are many unknowns in environmental investigations and we have the professionals and experience to handle whatever is uncovered.



Traffic

New development creates additional traffic for local roadways, often increasing congestion and decreasing safety. Traffic operations, traffic safety, and levels-of-service are key components in evaluating roadway networks and identifying areas for improvement, as well as those warranting further study.

Our traffic engineering experience in the last ten years has included more than 70 traffic studies, 100 intersection designs, and 300 traffic signal designs, as well as site impact analysis projects. Our team uses the latest analytical tools to perform technical operations analyses.

From traffic impact studies, signal warrants, and safety studies to coordinated signal systems and fiber optics, we design the best solutions that move traffic safely.

Site Development

While a new business or development project can spur economic development and increase tax revenue, it can also impact the infrastructure of the surrounding community.

Every new facility needs to be reviewed carefully for all infrastructure impacts to ensure adequate capacity is provided without reducing water pressure, flooding yards or congesting traffic to the adjacent stakeholders and general public. Our team works with the owner to make sure new facilities can be properly supported by the surrounding infrastructure of roads, drainage, traffic signals, and other key considerations.

Our key services in this field include: site selection, GIS mapping, major earthwork, utilities design and relocation, water and sanitary sewer design and reconstruction, roadway and pavement design and reconstruction, traffic impact studies, and environmental permitting.



Bridge

Effective bridge design includes managing current capacity and planning for future demands, while providing a safe and durable means of transportation. From major highway and railroad bridges to smaller aesthetically sensitive pedestrian and bikeway bridges, our team can design a solution for your unique needs.

Our structures have ranged in complexity from no skew to a 60-degree skew, and have included curved beams, dog-legged beams, and haunched girders. We have performed joint replacement, railing replacement/upgrade, slab replacement, superstructure/substructure repair or partial replacement, superstructure and/or substructure widening and replacement of superstructure.

Additionally, our company continues to maintain ties with leading fiber composite experts throughout the world, and we are proud to have a national authority in the field of composite technology on staff.



Water Resources

Increasing capacity, expanding service and improving water quality are challenges constantly facing growing communities and businesses. Our team provides water, sanitary, and storm sewer services—from studying small sections of larger systems to modeling entire distribution and collection systems.

Our engineers are recognized for their creativity in providing innovative water and wastewater treatment solutions, and they understand the intricacies of the federal and state permitting process to ensure timely permit authorization.

Our experience includes water and wastewater treatment plant design, environmental permitting and compliance, utility extension, master planning, treatment plant troubleshooting, water storage tank design, wellfield design, rate studies, lift station design, stormwater permitting, drainage studies, detention/retention design, and master planning.



Infrastructure

Infrastructure is the foundation for successful communities, institutions and businesses. We provide infrastructure design solutions to meet your needs without disrupting the daily lives of the citizens we serve.

ZAPATA is partnered with infrastructure design experts from LJB Inc. to form ZAPATA-LJB PLLC, and our team has everything you need to develop and maintain your infrastructure. Together, we deliver the following services:

- Facilities design/renovations
- Asset management
- Bridge
- Construction management
- Construction administration
- Environmental compliance and remediation
- Roadway and Traffic
- Site development
- Survey
- Transportation planning
- Water resources





With offices throughout North and South America, our industry-leading professionals deliver thorough solutions that exceed our clients' expectations.

ZAPATA

- » Charlotte, NC (Headquarters)
- » Golden, CO
- » Omaha, NE
- » San Antonio, TX
- » Kailua, HI
- » Santiago, Chile

LJB

- » Dayton, OH (Headquarters)
- » Cleveland, OH
- » Lansing, MI
- » Saint Louis, MO
- » Houston, TX



PROJECT SUCCESS

"The quality on this project was Exceptional. Your innovative design to retrofit the theater to meet the handicap requirements was a true design accomplishment that will help our wounded soldiers using this facility. Your team does a great job of in-house quality control to insure there are no conflicts between disciplines. The minimum number of design errors and review comments at each on board review is a reflection of your in-house quality control and professionalism."

Dawn Hester, Project Manager
Fort Bragg DPW, November 2014



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