



4140 Lindell Boulevard  
St. Louis, MO 63108  
P: [314] 454-0222  
[www.abnacorp.com](http://www.abnacorp.com)

# ABNA

## Engineering Design • Land Surveying • Construction

### AT A GLANCE

**ABNA ENGINEERING, INC.** was founded in 1994 and has since grown to more than 70 employees. ABNA is 100% W/M/DBE certified with the City of St. Louis, St. Louis Airport Authority, METRO-St. Louis, and MoDOT and is consistently ranked among the Top 25 Engineering Firms by the *St. Louis Business Journal* (2001-2022).

### PRINCIPALS

Abe Adewale PE, LSIT  
Nicole Adewale LEED AP®

### OFFICE LOCATIONS

St. Louis  
Burr Ridge (Greater Chicago Area)  
Southern Illinois

### SERVICES

Site/Civil  
Structural  
Environmental  
Testing & Inspection  
Construction Management  
Land Surveying  
Geotech  
GIS/Planning

**ABNA** is a full-service Civil Engineering, Structural, Transportation, Geotechnical, Environmental, and Surveying firm that has the capacity to provide all services required for MoDOT On-Call Projects. Furthermore, ABNA is MoDOT-Prequalified in each of MoDOT's listed categories (EVERify, Financial Prequal, LPA Basic Training, Bridge Form and Bridge QC/QA Plan).

ABNA operates on the premise that communication is the key to successful delivery of any project we undertake. Our client's input is valued and welcomed; likewise, we will be diligent in offering ideas and processes as well as confirming decisions to our clients on a regular basis.

ABNA has a proud history of exceeding client expectations; and it is our goal to position ourselves as a one-stop source for your engineering planning, surveying, design, and construction service needs.



ABNA Engineering, Inc. Headquarters, St. Louis, Missouri



# Roadway Design

ABNA offers many transportation related services from trails and side-walk through interstate highway design. Services provided include:

- Writing grant and TIP applications
- Planning and Studies
- Obtaining Environmental Permits
- Geometric & Roadway Design
- Drainage Design including Linear Rain Gardens
- Traffic Signal Design
- Lighting Design
- Estimating
- Completing Bid Documents
- Surveying\*

## Project Experience

In the last several years, ABNA has had the opportunity to work on numerous federally funded roadway projects including the following: I-270 North Design/Build Bellefontaine Roundabout, Jefferson National Expansion Memorial’s Park over the Highway, Missouri’s Rte. 115 (Natural Bridge Road) Great Streets Project, The City of St. Louis’ Washington Ave., Phase 3 Streetscape Project and their Central Business District Streetscape Project, MoDOT New I-64 Design/Build, the New Mississippi River Bridge, MetroLink, Illinois Route 3, the Lindbergh Tunnel, and reconstruction of the I-90/Lee Street Interchange for the Illinois Tollway. Non-roadway projects include the Delmar Loop Trolley, several projects associated with the Chicago to St. Louis High-Speed Rail, and pedestrian and cycling trail projects.

\*Should **Surveying** services be required in this category, ABNA supports large and small projects alike by providing route surveys, topographic surveys, cross-sections and profiles, right-of-way monuments, land use determination, complex construction staking, layout, as-builts, and more.



Project: I-270 North Design Build Bellefontaine Roundabout Design

# Structures

ABNA Structural Engineering department designs all types of roadway structures, buildings, parking facilities, specialty foundations, pump stations, flood walls, retaining walls, gates, box culverts, dams, walled channels, drop structures, and energy dissipaters. In addition to design, ABNA provides structural inspections of bridges and tunnels as well as load ratings.\*

## Project Experience

ABNA’s recent projects include the I-270 North Design/Build Bonus Bridge, Lee Street Bridge over I-90 for the Illinois Tollway, subconsultant support for MoDOT’s Poplar Street Bridge Slide, Poplar Street Approach Ramps, Walnut Street Bridge over I-44, Land Bridge over I-44, and the Pine Street Bridge over I-44, Route 141 Bridge over Creve Coeur Creek, and the I-70 Blanchette Memorial Bridge over the Missouri River.

ABNA was also selected for 4 bridge replacement projects as part of MoDOT’s Safe & Sound 800 bridge program: Rte. TT Bridge over Slough Creek in Saline County, Rte. M over Bridge Creek in Carroll County, Rte. W over Moniteau Creel in Howard County, and Rte. FE over Edmondson Creek in Saline County. Some of our local agency



Project: I-270 North Design/Build Bonus Bridge

projects include Jefferson Counties Mapaville-Hematite Bridge over Little Creek Tributary, Wilson Hollow Bridge over a Tributary to the Big River and specialty foundation design for the City of St. Louis’ Washington Avenue, Phase 3 Streetscape project, and Kiener Plaza.

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# Construction Testing

ABNA offers many construction related services including estimating, value engineering, construction staking, testing for plumbness of steel and forms, concrete, soil & asphalt testing, project inspection and field engineering. We can also provide support for scheduling and QA/QC documentation. ABNA’s Construction Services, Construction Management and Engineering staff includes experienced civil engineers and geologists, NBIS, in addition to technical support personnel. ABNA operates an in-house Corps of Engineers Validated and AASHTO accredited laboratory with state-of-the-art equipment for all testing and inspection tasks. Services provided include:

- Resident Engineering
- Scheduling
- Estimating
- In-place density tests on compacted fill material
- In-place density tests on asphalt
- Field test of concrete and casting
- In-place density tests on asphalt
- Lab compression testing of concrete cylinders in accordance with ASTM Procedures
- Testing and reporting
- Trimming of irregular client cast cylinders to meet ASTM requirements (only if required)
- Atterberg limits determination
- Marshall Stability & Flow (ASTM D 1559)
- Extraction and gradation (ASTM D 2172)
- Bulk specific gravity
- Surveying\*

## Project Experience

ABNA worked on MoDOT’s Daniel Boone Bridge Design/Build, The New Mississippi River Bridge, MoDOT New I-64 Design/Build, IDOT’s I-55/Route 59 Interchange, and several MetroLink projects such as the Eads Bridge Retrofit and the Cross County Extension. ABNA recently complete construction management services for St. Louis’ Washington Avenue Streetscape project and Franklin County’s Herbst Road Bridge replacement project. On these projects ABNA was the prime consultant and performed all LPA construction management duties from Resident Engineer through laboratory material testing.

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Project: Stan Musial/Veterans’ Memorial Tollway, Roadway, and Bridge Rehabilitation I-55 (M.P. 12.3) to Army Trial Road (M.P.29.8) CM

# Trails & Sidewalks

ABNA has a strong record of providing engineering design and surveying services for projects in the area of trails and sidewalks. We provide MoDOT, municipalities, and other clients with quality engineering in the following categories:

- Trail and sidewalk design
- Trail and pedestrian use facilities design
- Right of way
- Signal and lighting
- Utility relocations
- Landscaping
- Surveying\*

Additionally, ABNA brings ADA and PROWAG expertise to every project that requires improvements in these areas. Our experience in this area enables us to devise effective solutions for each unique case and design challenge.

## Project Experience

ABNA's ongoing and recent projects in the area of Trails & Sidewalks include the following: Great Rivers Greenway Carondelet Connector Wall Replacement Design; St. Francois State Park Repair Entrance Road, Network Road & Parking; the Washington Avenue Streetscape; Penrose Park; Great Rivers Greenway North Riverfront Garage Demo-402B; Tower Grove Park Lily Pond Survey; Forest Park Waterways; Tower Grove Eastern Watershed Study Survey; Oakland Avenue Playground; St. Vincent Greenway: 1108 Stephen Jones Avenue.

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Project: Wall Replacement Design for Great Rivers Greenway Carondelet Connector Pedestrian and Cycling Trail Network in South St. Louis

# MoDOT & Other Relevant Projects

- **LPA Subsurface Exploration and Geotechnical Engineering Analysis and LPA Environmental Study for Maries County Bridge**
- **LPA On-Call Roadway Design – Master Agreement**
- **LPA Charter Church Road Bridge Replacement**
- **LPA MoDOT CD 4 Bridge Bundle**
- **LPA Seckman Road Safety Improvements**
- I-270 North Design/Build Southbound I-170 Widening Design M-6073B
- I-270 North Design/Build Bellefontaine Roundabout Design M-6073A
- I-270 North Design/Build Bonus Bridge
- Stan Musial/Veterans' Memorial Tollway, Roadway, and Bridge Rehabilitation
- Fractural Critical FC Inspections MOU 7 Liberty MO
- Fractural Critical FC Inspection MOU 6 Sedalia MO
- MoDOT Fracture Critical Inspection MOU 13 Dixon MO
- Consultant On-Call Services/MOU I-55 Sikeston MO Inspections – I-55
- Consultant On-Call CM Services Sikeston MO
- Ackerman Toyota – Boundary Survey
- On-Call Surveying for Central District – Master Agreement
- ROW Permits Independent MoDOT Inspections
- On-Call Services Cape Girardeau MO
- Bridge Inspection MOU No. 9 Clay County 068003 NB19(770)
- I-70 LID Design of City Arch River
- St. Louis City I-64 Bridges 2011-216
- Sign Inspection Service Agreement
- Sub-Surface Utility Engineering Service
- 800 Bridge 2006-309
- Route 367
- Route 109 Roundabout Wildwood MO
- GRG Carondelet Connector Wall Replacement Design
- St. Francois State Park
- Washington Avenue Streetscape
- Penrose Park
- Great Rivers Greenway North Riverfront Garage Demo-402B
- Tower Grove Park Lily Pond Survey
- Forest Park Waterways
- Tower Grove Eastern Watershed Study Survey
- Oakland Avenue Playground
- St. Vincent Greenway: 1108 Stephen Jones Avenue