



**Missouri's
Local
Program**
*for community
development*

COVER SHEET

(This must accompany your firm's letter of interest and does not count in the page limit)

Firm's Full Legal

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St. Louis, MO 63108

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures
- Environmental
- Historic Preservation
- Multimodal Planning / Systems and Facilities Design
- Transportation Planning – **NEW CATEGORY**



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LETTER OF INTEREST FOR LPA ON-CALL SERVICES

November 25, 2022

LPAoncall@modot.mo.gov

Category: Roadway Design

ABNA Engineering, Inc. requests consideration for providing LPA On-Call professional engineering services for MoDOT's Statewide **Roadway Design** Category. We are confident ABNA is the right firm to guide LPA On-Call projects in this category from concept to successful completion while providing all required oversight and guidance. We believe our roadway design experience, highly-qualified staff, and past record of performance—combined with our thorough understanding of MoDOT standards—make us an outstanding candidate for MoDOT's **Roadway Design** LPA On-Call projects. ABNA's enthusiastic interest in providing these services stems from our desire to deliver services within the required timelines and in a manner that delights MoDOT and benefits the people of the state of Missouri.

PREQUALIFICATION: ABNA is a **MoDOT approved Prequalified Consultant** and is prequalified in each of MoDOT's listed categories (E-Verify, Financial Prequal, LPA Basic Training, Bridge Form, and Bridge QC/QA Plan). ABNA is also registered with and in good standing to provide professional **Roadway Design** services to MoDOT for the LPA.

GENERAL EXPERIENCE OF FIRM: ABNA was founded in 1994 by Nicole and Abe Adewale, two enterprising transportation engineers. Since then, the company has grown to more than 70 employees. ABNA is a full-service **Civil, Structural, Transportation, Traffic, Geotechnical, Environmental Engineering, and Surveying** firm that has the capacity to provide all services required for MoDOT LPA On-Call Projects. ABNA is a W/M/DBE firm that embraces workforce diversity. ABNA's staff represents experienced professional engineers, surveyors, and support staff from several parts of the U.S. and more than ten countries.

For the past 30 years, ABNA has provided **Roadway Design** services on numerous projects as both prime consultant and subconsultant for MoDOT, Illinois DOT, Jefferson County, St. Louis County, Metro, and many local municipalities. ABNA also provides **Roadway Design** services to Districts throughout Illinois. (Additionally, 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.)

PAST PERFORMANCE: As part of the \$278M **I-270 North Design-Build project** for MoDOT, the largest in 2022, the intersection at I-270 and Bellefontaine Road was transformed into a **Turbo Roundabout Interchange**. As part of the overall team, ABNA's Transportation professionals led management, coordination, and design efforts. ABNA prepared all design plans in accordance with MoDOT standards. The **I-270 North Design-Build project** required that a **new bonus bridge** be placed over I-270, connecting Dunn and Pershall Roads, between Old Halls Ferry and MO 367. ABNA's Structural professionals provided management, coordination, and design efforts for this project. ABNA prepared all design plans in accordance with MoDOT standards.

ABNA's experience on the ongoing statewide IMPROVE I-70 project include the following:

Columbia to Kingdom City Design Build - ABNA's Transportation engineers performed the following Design tasks for Segment 4 of the project segment: Drainage, Pavement Markings, Alignment Details, Roadway Plan Sheet, Pavement Removal Sheet, Profile, Cross-Sections, and Typical Sections. *Notably, ABNA's Design responsibilities for Segment 4 include replacement of the interchange at Conley Road and US 63 with a*

roundabout. ABNA’s Structural department was responsible for the design of three new bridges in this segment and provided rehabilitation plans for bridges No. 8 and No. 9 on Route 63 over I-70.

Wentzville to Warrenton Design-Build - ABNA’s Transportation department provided the complete design for approximately 2.8 miles of roadway within Segment 1. ABNA’s Structural department designed a new 3-span, pre-stressed concrete girder bridge (NU-35 girders) at Ramp 64W-70W Over Route Z. The design calls for the bridge to be built in a single phase with a full-depth deck with stay-in-place (SIP) metal forms.

To improve the durability of the roadway and enhance driver safety as part of **MoDOT’s Route CC Jefferson County** project along Route CC from US 67 to MO 110, ABNA’s Roadway engineers proposed the following improvements: Class C partial depth repair; 2” BP-1 w/ PG 64-22 overlay; Guardrail upgrade to current MASH standards; Replacement of existing signs and posts. Additionally, ABNA conducted a crash analysis for MoDOT, which revealed that nine of the twenty-one recent reported incidents involved a loss of vehicle control. ABNA’s analysis indicated contributing factors likely included poor roadway conditions, excessive speed, distracted driving, vehicle malfunctions, and adverse weather conditions.

The **Hanley Road Resurfacing (F) project**, for owner St. Louis County Highways and Traffic, provided pavement resurfacing, base repairs, mill and overlay, and ADA improvements (including installation of ADA compliant landing pads at bus stops) for North Hanley Road, as well as traffic signal replacement at University Place. The specific area of improvement is approximately 0.65 miles of North Hanley Road from Interstate 70 to Natural Bridge Road. ABNA engineers designed the following improvements to the area: pavement resurfacing, concrete replacement, joint repair, curb repair, ADA Pedestrian Access Route (PAR) with curb ramp replacement, commercial and residential approaches and tie-ins, traffic signal replacement at University Place Drive, traffic signal pedestrian upgrades, traffic signal interconnect, stormwater, and grading.

QUALIFICATIONS OF PERSONNEL: David Diestelkamp PE will lead the team of engineers and professionals to bring MoDOT’s **Roadway Design** projects to successful completion. Dave has 47 years of experience specializing in transportation projects, site development, flood protection, lock and dam design and construction, airside airport development, and mass transit projects. His infrastructure project experience is from across the U.S. and includes alternative delivery methods such as D-B and CM At-Risk Projects.

Key Project Staff	Project Role	Years of Experience
David Diestelkamp PE	Project Manager	47
Hamid Hadjri PE, PTOE	Lead Design Engineer	31
Muhammad Saif Uddin EI	Roadway Designer	4

Dave will be assisted with design by the following ABNA staff members:

Hamid Hadjri PE, PTOE (Lead Design Engineer & ADA Designer) brings more than 31 years of experience to local projects. He served as St. Louis County Department of Transportation project manager for 10 years. During this time he was responsible for providing detailed construction plans for roadway improvement projects. Examples of these projects include the Right Turn Lane at Big Bend Boulevard and Manchester Road, and Baxter Road Federal Project No. STP-4901(625), from Clarkson Road to Wild Horse Creek Road, among others. He will serve as the lead design engineer, using his knowledge of **Roadway Design** standards and practices to ensure designs are completed to MoDOT’s satisfaction.

Muhammad Saif Uddin (El Roadway Designer), who holds a Master's in Civil Engineering, is ABNA's Transportation Engineer. His background includes experience in highway and transportation engineering, urban transportation planning, traffic operational analysis, highway safety manual analysis and procedures, and the AASHTO Greenbook. He has taken on tasks involving roadway resurfacing and traffic signal design, which positions him to handle transportation related projects. Saif is also proficient in various design software including AutoCAD, Civil 3D, VISSIM, HCS, Synchro, ArcGIS, and MicroStation.

These key staff members have been selected for their respective expertise and availability to commit priority attention to MoDOT On-Call projects. In the event additional team members are required, especially for multiple simultaneous On-Call assignments, ABNA's **Roadway Design** bench strength includes a total of eight (8) staff members. Each member of our team is committed to achieving a high standard of excellence to ensure all project needs are met.

FAMILIARITY/CAPABILITY: ABNA has worked on federally funded MoDOT and LPA projects since 1998, and our engineers are thoroughly familiar with the **Roadway Design**-relevant sections of the Engineering Policy Guide (EPG) and MoDOT's survey, GEOPAK SS4, OpenRoads Designer, and MicroStation requirements. ABNA has demonstrated this by our completed work on the I-270 Design Build project, and the Central District Bridge Bundle.

To ensure capability for each project it undertakes, ABNA tracks current project backlog and uses this backlog to make personnel availability forecasts and implement necessary adjustments to assigned personnel. A review of current backlog confirms ABNA is adequately staffed and has the capacity to aggressively pursue MoDOT **Roadway Design LPA On-Call** services and is prepared to give each assignment the appropriate attention to fulfill MoDOT's expectations.

ACCESSIBILITY: Please be assured ABNA will provide MoDOT comprehensive and professional **Roadway Design** engineering services based on our specialized portfolio of expertise and experience. ABNA's goal is to "Delight Clients." We do so by providing quality work and utilizing innovative methods for effective project management and responsiveness. Specifically, our hands-on approach utilizes both onsite fulfillment of services and communication with clients in-person and via digital and virtual platforms. Thereby, our clients receive transparent and immediate responsiveness which reflects our commitment to efficiency and exemplary service.

Thank you for considering our interest in providing LPA On-Call services to MoDOT. We greatly appreciate the opportunity to provide information about ABNA's qualifications. We are eager to continue to work with MoDOT. Please contact me at (314) 454-0222, for more information about our **Roadway Design** services, expertise, and experience.

Sincerely,



David Diestelkamp PE
Chief Operations Officer



ABNA

Engineering Design • Land Surveying • Construction

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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* (2001-2025).

PRINCIPALS

Abe Adewale PE, LSIT
Nicole Adewale Ed.D., 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 clients input is valued and welcomed; likewise, we are diligent in offering ideas and processes as well as confirming decisions to our clients on a regular basis.

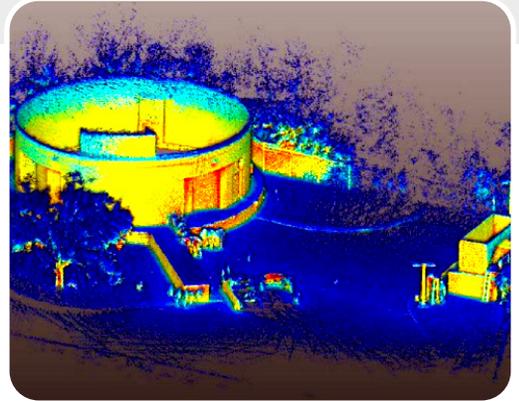
ABNA has a proud history of exceeding client expectations; and it is our goal to position ourselves as a one-stop source for your engineering planning, surveying, design, and construction service needs.



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

Surveying/Lidar

ABNA supports large and small projects alike by providing survey services such as route surveys, topographic surveys, cross-sections and profiles, and establishing existing, proposed centerline alignments, record research, boundary surveys and adjustments; plotting collected field information; establishing 1st and 2nd order controls, right-of-way monuments, land use determination, complex construction staking, layout, and as-builts. ABNA's survey department consists of five survey crews, a field manager, a survey research technician, the survey manager and additional licensed surveyors. ABNA employs a wide array of survey equipment, which enables efficient completion of projects. These instruments include five full Trimble GPS units, five Nikon Total Station Units equipped with the latest TDS data Collectors, digital levels, and a variety of other conventional survey equipment. Additionally, ABNA's survey staff have extensive experience in the use of state-of-the-art software such as MicroStation, AutoCAD, GEOPAK, MapInfo, Manifold, STAR*NET TDS Survey Link, TopoDOT, and Trimble Geomatics Office. With 5 survey crews, ABNA can rapidly mobilize once work orders are received.



Project: MSD Pump Station (Vance Road)

Project Experience

Sample ABNA experience includes MoDOT's Route I-44 Meramec River Bridges, the Illinois Tollway's I-90/Lee Street Interchange, MoDOT Rte. 115 (Natural Bridge Road) Great Streets Project, City of St. Louis' North & South Broadway Streetscaping, several St. Louis Ward Improvement Projects, Metro's St. Clair County MetroLink Extension, IDOT's I-270 over Chain of Rocks Canal Bridge replacement project, and the MetroLink Cross County Extension.

Roadway Engineering

We offer many transportation related services from trails and sidewalk 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



Project: I-270 North Design Build Bellefontaine Roundabout Design

Project Experience

In the last several years, ABNA has had the opportunity to work on numerous federally funded roadway projects including the 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.

Bridge Engineering

ABNA's 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 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.



Project: I-270 North Design/Build Bonus Bridge

Construction Management

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



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

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 completed 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.

Geotechnical

ABNA has provided Geotechnical services to clients including BJC Healthcare, Bayer (formerly Monsanto), and St. Louis Metropolitan Sewer District. ABNA's Geotechnical Department provides the following services:

- Subsurface Investigation
- Boring Studies
- Slope Stability Assessments
- Foundation Design
- Atterberg Limits Moisture Determination
- Soil Classification
- Moisture Density (Proctor)
- Sieve and Hydrometer Analysis
- Data Collection
- Report Preparation
- Evaluation of Historic Soil Resources



Project: I-64 Daniel Boone Bridge over Missouri River

MoDOT & ABNA Project List

- Route CC Jefferson County for MoDOT
- IMPROVE I-70: Columbia to Kingdom City Design-Build
- IMPROVE I-70: Wentzville to Warrenton Design-Build
- I-270 North Design/Build Southbound I-170 Widening Design M-6073B/Client: Parsons Inc.
- I-270 North Design/Build Bellefontaine Roundabout Design M-6073A / Client: Parsons Inc.
- I-270 North Design/Build Bonus Bridge / Client: Parsons Inc.
- Stan Musial/Veterans' Memorial Tollway, Roadway, and Bridge Rehabilitation (see image in Construction Management section)
- 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
- On-Call Services (Asphalt Plant Inspection) Cape Girardeau MO
- ROW Permits Network Extensions & Service Installations – Independent MoDOT Inspections / Client: ADB
- Ackerman Toyota – Boundary Survey / Client: AEDIS
- LPA On-Call Roadway Design – Master Agreement
- On-Call Surveying for Central District – Master Agreement
- Bridge Inspection MOU No. 9 Clay County 068003 NB19(770)
- Excess ROW
- I-70 LID Design of City Arch River / Client: Crawford, Murphy & Tilly, Inc.
- St. Louis City I-64 Bridges 2011-216 / Client: Horner & Shifrin, Inc.
- Sign Inspection Service Agreement / Client: Kwame Building Group, Inc.
- Sub-Surface Utility Engineering Service