



**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  
Name:

Oates Associates, Inc.

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Firm Contact Name:

Michael Busch, PE, PTOE

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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**



#### Collinsville

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#### St. Louis

720 Olive, Suite 700  
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December 12, 2025

Ashley Buechter, PE  
Local Program Administrator  
Re: Missouri's Local Program | Roadway Design

Dear Ms. Buechter:

At Oates Associates, we have a 45-year history of creating specific transportation solutions and have extensive knowledge working with federal, state, and local agencies on roadway projects. Being highly familiar with this landscape, we have built a highly qualified staff with experience in design and construction who are equipped with the expertise and flexibility that local agency projects require. Oates successfully connects people and places by offering creative yet realistic solutions on a variety of scales, from local street reconstructions to full development of interstate highway systems.

#### Prequalification

Oates Associates is listed on MoDOT's Approved Consultant Prequalification List.

#### General Experience of Firm

Oates Associates is a full service, multi-disciplinary transportation design and planning firm. Our staff includes 31 licensed professional engineers, Professional Traffic Operations Engineers and certified ADA Coordinators to assist with any ADA design and planning needs. For 45 years, developing and implementing specific transportation solutions for local agencies has been the core of our services. We work closely with municipalities including public works, planning and zoning, parks, city councils and economic development departments. We understand that early coordination with the local agency, as well as residents and businesses who will be impacted by the project, opens the lines of communication to deliver a successful project that meets goals and exceeds expectations. Each project is treated with the same level of attention with coordination and communication beginning at the scoping meeting.

Typical roadway related services that we routinely provide for our clients include project planning, survey, hydraulics, storm water mitigation, floodplain management, ADA accessibility, streetscape amenities, pedestrian and bicycle facilities, parking lot design, aesthetic guidelines, clear zone and safety assessments, public coordination, utility and railroad coordination, intersection design and traffic analysis, general environmental clearance permitting, right-of-way and the development of construction documents and estimates. More specialized services we provide include structural design, the development of ADA Transition Plans and asset inventory and assessments, and city-wide long-range transportation plans.

We have an experienced team that is qualified to perform the engineering services required for a roadway project, including planning and design, plan production, providing estimates, and assisting with bidding and construction. From resurfacing and reconstructions to extensions and new corridors, Oates Associates brings transportation experience that will be utilized to complete a successful project.

To enhance our design services and help convey the improvements and potential impacts to the stakeholders and the public, we also develop computer generated renderings. Rendered street level images and 3D models are effective tools to illustrate the proposed improvements to the property owners individually or to everyone at a public meeting. For complex intersections and roundabouts, we have also used video simulations to successfully illustrate how the traffic flow is improved to ease public concerns.

### Past Performance

We have performed work throughout Missouri and Illinois for MoDOT, IDOT and other state agencies; the counties of St. Louis, St. Charles, Jefferson and Franklin; and over 50 municipalities. Within the last five years, we have completed over 60 federally funded projects, including over 30 through MoDOT and the LPA program. The brief experience below is intended to highlight the breadth of projects we have completed as the prime consultant.

Project	Client	Funds	Description
Lake Saint Louis Boulevard	City of Lake St. Louis	STP & STBG	\$8.5M - Study addressing traffic growth and safety concerns and phased improvements including road reconstruction, sidewalks, stormwater facilities and retaining walls
Weldon Spring Road, Phase I	City of O'Fallon	CMAQ	\$3.5M - Roadway widening, intersection reconstruction to roundabout, pedestrian facilities
Interstate Drive Phase I	St. Charles County	STP	\$5.4M - Reconstruction and design of a roundabout, extension to a multi-use path, drainage improvements
Manchester Road Resurfacing	City of Maplewood	STP	\$1.7M - 3,400 FT resurfacing, sidewalk, curb ramps improvements, crossings
Hawk Ridge Trail & Ronald Reagan Drive	City of Lake St. Louis	STP	\$1.6M - 5,800 FT resurfacing, ADA improvements, curb ramp, signals
Pomme Road	City of Arnold	STP	\$3.2M - 2,950 FT reconstruction, new sidewalk and curb ramp connections, stormwater facilities and retaining walls
Ferguson / Midland Resurfacing	St. Louis County	STP	\$2.7M - Resurfacing roadways, ADA improvements, and signals
Hunning Road Safety Improvement	Jefferson County	STP	\$1.2M - 1,100 FT resurfacing and widening, reconstruction of a curved section of roadway, a new precast box culvert
First Capitol Drive	City of St. Charles	STBG	\$6.6M - Road diet, ADA sidewalks/crosswalks, 6' bike lanes, lighting and utility relocation
Mexico Road	City of Wentzville	STP	\$4M - Repairs, resurfacing, shoulder additions, intersection realignment, left turn lane addition, new sidewalks
ADA Self Evaluation & Transition Plan / Missouri State Road Shared-use Path	City of Arnold	TAP	\$800K - Assessment of sidewalks / pedestrian and bicycle routes, ADA compliance, and prioritized improvements and subsequent design of the Missouri State Road Shared Use Path

### Qualifications of Personnel

Key personnel who will be involved in roadway assignments are highlighted on the next page. They will be supported by our 80-person staff including civil and structural engineers, surveyors, CADD technicians and graphic/visualization designers.

Personnel	Yrs	Title	Planning	Road Design	Hydraulics	Utilities	Pedestrian	Visualization
Mike Busch, PE, PTOE	28	PP	●	●	●	●	●	
Bentley Gedris, PE	12	PM	●	●		●	●	●
Phil Murphy, PE	40	PM	●	●	●	●	●	
Stephanie Parrish, PE	10	PM	●	●	●	●	●	●
Travis Helmkamp, PE, ADAC	19	PM	●	●	●	●	●	●
Jason Dreyer, PE	18	PM	●		●			
Roshan Pokhrel, PE, PTOE	4	PE	●	●			●	●
Ryne Wirtjes, PE	6	PE	●	●	●	●	●	
Julian Chastain, PE	9	PE	●		●	●		
Adam Hark, EI	3	PD		●		●	●	
Zach Aud, EI	2	PD		●			●	
Garima Shrestha, EI	2	PD		●			●	●

Key: PP- project principal, PM- project manager, PE- project engineer, PD- project designer

### Familiarity / Capability

Oates' primary engineering focus is transportation. The majority of our transportation projects are federally funded. Funding for our state and municipal projects has ranged from general funds to federal transportation funds, so we are familiar with a variety of design and documentation requirements by outside funding agencies. We have a thorough understanding of MoDOT and FHWA guidelines from the funding application stage through the construction / implementation process and 10 staff members have completed the LPA certification for local agency projects.

We have provided roadway design and engineering services for many federally funded projects and we understand the process from start to finish. When a project arises, guidelines set forth by MoDOT and FHWA will be followed closely and coordinated with the state. Through our experience in developing federally funded roadway improvement plans for many governmental agencies, we understand the importance of this coordination. We are very familiar with the guidelines established by MoDOT, including the Engineering Policy Guide, the AASHTO Policy on the Geometric Design of Highways and Streets, the Highway Capacity Manual, the ADA Public Right-of-Way Access Guidelines (PROWAG), the Manual of Uniform Traffic Control Devices, the Manual for Assessing Safety Hardware and other relevant standards as they relate to the anticipated projects.

### Accessibility

Oates Associates is ready to begin work immediately and fully committed to meeting schedule requirements while delivering a quality project. We are flexible and responsive, consistently allocating the necessary resources to stay on time and within budget. Each project is assigned a QA/QC manager who works closely with the project manager to ensure successful delivery. Our proven track record includes multiple roadway design and engineering contracts, with many repeat clients. We believe these continual relationships with our clients speak to the level of their satisfaction. We understand that your willingness to engage us on your next effort is solely based on our ability to provide quality products and great service.

Sincerely,

**OATES ASSOCIATES, INC.**



Michael D. Busch, PE, PTOE  
Principal



### Firm Overview

Since we opened our doors 45 years ago, we have worked on projects large and small. Because of our dedication to building a capable team of engineers and technicians who are passionate about serving our community, we have built a reputation for doing great work and completing assignments on time and on budget.

From transportation to building infrastructure, Oates Associates has you covered. Our professionals are experts in their field, and are immersed in every project they take on, no matter the size. We build trusted partnerships with our clients that is based on integrity and responsiveness.

### Contact Information

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**45 years**  
OPERATING IN THE MIDWEST

**80 employees**  
WHO ARE PART OF THE OATES FAMILY

**31 engineers**  
WHO ARE LICENSED PROFESSIONALS

**400+ bridges**  
DESIGNED BY OATES

**1,000s of miles**  
OF ROADWAY & SIDEWALK IMPROVEMENTS

**150+ miles**  
OF TRAILS

## Services

### Transportation Engineering

At Oates, our team of transportation engineers works with agencies, municipalities, neighborhoods and developers to creatively craft solutions and genuinely build consensus. We offer creative yet realistic solutions on a variety of scales from local street reconstructions to full development of interstate highway systems. Further, Oates is fluent in the design requirements of federally funded transportation projects, having completed over 60 federally funded roadway projects in the last five years.

- Local Streets
- Interstates and Interchanges
- Corridor / Alignment Studies
- Transportation Planning
- Intersection Design
- ADA Compliance Assessments & Design
- Storm Water Drainage Analysis & Design
- Hydraulic Studies
- Utility Coordination
- Public Coordination

### Pedestrian Facilities / ADA Compliance

At Oates, we have the depth of pedestrian and bicycle facility experience to create an amenity that enhances the vehicular corridor. Our experience extends from ADA Transition Plans and bicycle master planning to facility design to construction. Many of our roadway projects involve upgrading pedestrian facilities to meet the current ADA requirements. Oates Associates understands that accessible design is a dynamic process that must be followed closely to comply with the most current design and construction guidelines and recommendations.

- ADA Transition Plans
- ADA Compliance Assessments & Design
- Streetscapes
- ADA Construction Inspection
- Pedestrian Signals
- Parking Lots



*The Route Z and Interstate Drive intersection was upgraded for the City of Wentzville, Missouri by Oates, featuring dual left turn lanes, a dedicated right turn lane and two through lanes to improve traffic flow.*

### Trails

Our transportation services are all encompassing to create a safe passage for all users - motorists, cyclists, and pedestrians. Our staff has developed considerable experience in the design of bicycle / multi-use trails in a variety of settings, from roadway facilities to state parks to college campuses to cross-county trails on abandoned rail lines or river levees. We have designed over 150 miles of bike trails and greenways, including on-street and off-street connections.

- Bicycle Master Plans
- ADA Compliance Assessments & Design
- Multi-use Paths
- On-Road Facilities
- Recreational Trails

## Traffic Engineering

We help communities develop and implement specific solutions that solve today's traffic challenges. Our staff includes 4 Professional Traffic Operations Engineers with the technical expertise in evaluating current and projected traffic conditions and executing improvements. For traffic studies, we work with the various interest groups to gather data on event-driven peaks and enlist their cooperation in developing operational solutions to meet these challenges. To complete traffic studies, our engineers are proficient in using Highway Capacity software, Synchro, VISUM, and Nu-Metrics traffic counters. We also routinely perform manual traffic counts to supplement automated counts and help evaluate turning movement patterns.

- Trip Generation Studies
- Traffic and Capacity Analysis
- Intersection & Traffic Signal Design
- Roundabouts
- Traffic Calming
- Control Warrants
- Intersection Modifications / Reconstructions



*Oates partnered with the City of O'Fallon, Missouri to reconstruct and widen Weldon Spring Road. Improvements include reconstructing the roadway, improving operations by reconfiguring an intersection into a roundabout - thereby transforming the corridor into a safer and more accessible route for a growing community.*



*Replacement of an existing bridge in Sikeston, Missouri – Oates worked with MoDOT, SE district to replace the existing truss bridge and design a new 3-span prestressed NU girder bridge with pedestrian facilities at Business Route 63 over Two Mile Creek and BNSF Railroad.*

## Structural Engineering - Bridges

Our structural design staff has significant experience in bridge / box culvert design and retaining walls as well as building structures. They have designed over 400 bridges in the last 20 years, from box culverts for small stream crossings to major interstate interchange structures and from rehabilitations and replacements to new structures.

Hydraulic design for new bridges and replacements is performed in-house by experienced hydraulic engineers that are familiar with the permitting requirements outlined by the Corps of Engineers and the Department of Natural Resources. We complete the required permit documentation, such as the 404 / 401 permits as well as the "No-Rise Certification" required by the governing agencies.

- Steel Beam Bridges
- Prestressed Concrete Bridges
- Curved Girder Bridges
- Concrete Slab Bridges
- Pedestrian Bridges
- Box Culverts
- Deep Foundations
- Shallow Foundations
- Hydraulic Modeling

## Stormwater

We have extensive experience in the design of stormwater management systems and NPDES permit compliance. We have successfully completed projects with a wide range of complexity and unique design features. We provide sustainable solutions and develop realistic ideas that work. When designing improvements, our engineers consider initial and long term maintenance costs as well as the impact improvements have on the drainage facilities.

- Storm Sewer Design
- Culvert Analysis
- Ditch Capacity Analysis
- Inventory & Assessment
- Hydraulic Modeling
- Sustainable Solutions



*Oates Associates is working with MSD to alleviate street and yard flooding throughout St. Louis County. The above photo shows improvements for residents along Sappington Road. This is one of over 130 stormwater investigations that we have completed for MSD.*

## Structural Engineering - Buildings

We provide structural engineering design for a variety of buildings and building types, creatively adapting the structural components to the design. From initial grid and column spacing to the final construction drawings, our structural engineering experts assist our clients with engineering support for full facility development. We have provided structural design from new multi-million dollar facilities to building additions.

- Building Inspections
- Building Structural Systems
- Forensic Investigations
- Foundations
- Fall Protection

## Site Design

Our engineers work collaboratively together with architects to create site plans and designs that are as pleasantly interactive as they are efficient. Solutions that create great community places that become part of their surroundings rather than intrude on them. We have completed site design for many buildings, for sites up to 1,500 acres, and for parking lot improvements affecting over 10,000 spaces in over 150 locations.

- Site Layout / Design
- Parking Facility Planning / Design
- Stormwater Management
- Wastewater Management
- Utility Design
- ADA Assessments & Design

## Survey / Drone Operations

Survey is the cornerstone on which all successful projects are built. The surveyor's ability to accurately and efficiently collect the field data and transfer it to the design plans and/or right-of-way documents is instrumental in maintaining a project schedule. Our surveying services complement our design, right-of-way and construction inspection. Our surveyors are experienced, detailed, and provide comprehensive services including traditional survey methods and the use of aerial drones.

- Control
- Route
- Topographic
- Right-of-Way
- Hydraulic
- Aerial Drone Surveys
- ALTA
- Boundary
- Subdivision
- Construction Staking

## Construction Engineering Services

Our construction engineering services are tailored to fit our client's needs on each project. Our roles on construction projects have ranged from resident engineering and full construction observation to part-time inspection and testing.

- Shop Drawing Reviews
- Coordination & Progress Meetings
- Construction Observation
- Material Testing
- Utility Coordination
- Federal Documentation