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)

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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

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December 12, 2025

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

Dear Ms. Buechter:

Oates Associates has routinely worked with federal, state, and local funding sources making federally funded transportation infrastructure a major component of our work. Our range of bridge services include National Bridge Inspection Standards (NBIS) inspections, bridge condition assessments, repair plans, full design plans, and construction observation services. We routinely lead various improvements to transportation structures from rehabilitations to full replacements.

Prequalification

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

General Experience of Firm

Oates Associates is a full service, multi-disciplinary 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 has been the core of our services. Our experience ranges from interstate highways and bridges on new alignment to local streets involving pedestrian facilities and structures in urbanized areas.

Our structural design staff includes 7 professional engineers and 9 design professionals. We have significant experience in bridge / box culvert design and retaining walls. We have designed over 400 structures 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. We have inspected over 1,000 bridges in the last 10 years, from historically problematic box beams to fracture critical thru trusses. Our projects also include structures over railroads and we are familiar with the design requirements and the coordination challenges when dealing with railroad companies. We design pedestrian facilities - including pedestrian structures. Hydraulic design for new bridges and replacements is performed in-house by experienced hydraulic engineers. Oates has significant hydraulic analysis and design experience, having performed over 400 hydraulic studies. Our services typically involve data collection, hydraulic survey, site investigation, hydraulic analysis, scour analysis, and report preparation. Our hydraulic engineers work closely with our structural engineers to determine the optimal structure type.

The structural services we provide extend from the traditional planned projects to forensics to emergency repairs that require an immediate response. As with any project, identifying the project constraints whether it be topography, schedule or budget is essential for developing a proper scope to ensure a successful project and earn public trust. Through our discussions with the client, we customize our services to best meet the project goals and budget. Our structural design experience includes curved girder bridges, steel and pre-stressed concrete beam bridges, concrete slab bridges, seismic design in high risk zones, three-sided precast structures, precast and cast-in-place box culverts and retaining walls. In addition, we are identified as the NBIS program manager for several municipalities and conduct and oversee the routine inspections for over 20 bridges. We conduct NBIS QA Reviews for IDOT, which involves meeting with over 110 local agencies to date, reviewing NBIS procedures and documentation, and completing reports for each agency. Our experience also includes load rating services which involves inspecting and documenting deterioration and damage of bridge members and using that information to determine the safe load capacity of the bridges. While Oates does not provide geotechnical services, we routinely subcontract those services to trusted design partners to provide an all inclusive design package for our clients.

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. A condensed list of our bridge projects is highlighted below.

Project	Client	Funding	Spans	Length	Hydraulics
Heintz Road over Mattese Creek	St. Louis County	STP	1	96’	●
Lovella Avenue over Claytonia Creek	City of Richmond Heights	STP	1	27’	●
Old Chesterfield Road Culvert Replacement	City of Chesterfield	Local	1	14’	●
Bus Rte 63 over Two Mile Creek & BNSF RR	MoDOT SE	Federal	4	323’	●
Rte ZZ over Howell Creek	MoDOT Bridge Division	Federal	3	136’	●
Rte FF over Rings Creek	MoDOT Bridge Division	Federal	3	152’	●
Rte A over North Fork of Cane Creek (2)	MoDOT SE	Federal	3	109’	●
Rte B over Drainage Ditch No. 1	MoDOT SE	Federal	1	86’	●
Rte 53 over Drainage Ditch No. 2	MoDOT SE	Federal	1	107’	●
Rte 53 over Lateral Ditch No. 2	MoDOT SE	Federal	1	99’	●
Convention Center Blvd over Crystal Springs	City of St. Charles	Local	1	104’	●
I-74 over Lincoln Street & BNSF RR (1)	IDOT	Federal	4	324’	
Iberg Road over CSX RR	City of Highland	TARP	2	235’	
IL 13 over Big Muddy River (1)	IDOT	State	5	465’	●
IL 97 over Spoon River (2)	IDOT	State	7	857’	●
North Long Street over Little Canteen Creek	City of Caseyville	STP	1	65’	●
Possum Hollow Road over Little Meramec (2)	Franklin County	STP	1	64’	●
St. Mary’s Road over I-44	MoDOT SL	Federal	2	212’	
Wilson Road over Wilson Creek Tributary (2)	City of Chesterfield	Local	2	28’	●
Spanish Pond Road over BNSF RR	St. Louis County	Local	3	134’	
Route P over Maple Slough Ditch	MoDOT SE	Federal	1	65’	●
Route 137 over Pine Creek	MoDOT SE	Federal	3	160’	●
Route 137 over Big Creek	MoDOT SE	Federal	3	115’	●
Route 137 over South Fork Jack’s Fork Creek	MoDOT SE	Federal	4	210’	●
Route T over Saline Creek	MoDOT SE	Federal	2	224’	●
Route K over Apple Creek	MoDOT SE	Federal	1	123’	●

1 - dual structure, 2 - built under staged construction

Qualifications of Personnel

Key personnel who will be involved in structural 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	Experience
Bruce Schopp, PE	43	PP	President overseeing all structural work
Jeff Rensing, PE	28	PP	Oversees analysis and design of bridge structures
Dan Lutz, PE	24	PM	Bridge structural department lead, inspections, analysis, design
Jason Dreyer, PE	17	PM	Focused on structures, significant involvement in 100+ structures
Phil Murphy, PE	37	PM	Senior hydraulics managers
Stephanie Parrish, PE	10	PM	Hydrologic and hydraulic analysis
Ted Harms, PE*	6	PE	Structural engineering designer and bridge inspector
Blake Wilson, PE	11	PE	Structural engineering support
Julian Chastain, PE	9	PE	Hydrologic and hydraulic analysis
Biraj Budhathoki, EI	4	PD	Structural engineering support
Octavio Ramirez, EI	4	PD	Structural engineering and hydraulic support

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

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 structural 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 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 Bridge Design Specifications, the AASHTO Manual for Bridge Evaluation, and other relevant standards as they relate to the anticipated projects.

Accessibility

Our team at Oates Associates is equipped and prepared to begin work immediately while offering our commitment to the project to meet schedule requirements and deliver a quality job. Oates Associates has proven our ability to be flexible and responsive on a variety of projects for several clients. Once a schedule is set, we commit the necessary resources to complete the project within the specified timeframe. Every project is assigned a Quality Assurance / Quality Control (QA/QC) manager. The QA/QC manager meets with the project manager at intervals throughout the project to ensure successful delivery. This includes making certain that schedules are met and projects are within budget.

Oates Associates has been awarded several contracts with clients requiring roadway design and engineering services, almost all of which are 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

OATES ASSOCIATES

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.

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

Contact Information

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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

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.

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

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