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November 15, 2013

MaryAnn Jacobs
Missouri Department of Transportation
Re: Missouri's Local Program | Trails & Sidewalks

Dear Ms. Jacobs:

With so many areas developing networks of trails, it is important to find a firm that offers complete engineering services. Having planned and designed numerous pedestrian facilities for communities of every size, Oates Associates is uniquely qualified to develop new trail and sidewalk designs, reconstructions, plan rail route conversions and coordinate trail construction, with a special emphasis on both environmental and local traffic impacts.

General Experience of Firm

For over 30 years, Oates Associates has provided municipal engineering services for a range of projects throughout local communities. We have worked 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.

A transportation system should be all encompassing and would not be complete without creating safe passages for all users. The inclusion of pedestrian and bicycle accommodations along existing vehicular corridors can create some unique challenges that can affect both vehicular capacity and safety. The design of these facilities goes beyond simply providing a dedicated surface - it must be developed by experienced design professionals to provide balance and ensure safety for all users. 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. Typical pedestrian and bicycle services that we provide include ADA compliance assessments and planning, streetscape planning and design, bicycle trail planning and design, survey, general environmental clearance permitting, public coordination, storm water design, pedestrian bridge and tunnel design, intersection and traffic signal design, utility coordination, right-of-way, aesthetic and architectural enhancements, landscaping, development of construction documents and project estimates.

We have an experienced team that is qualified to perform the engineering services required for a sidewalk or trail project, including developing plans, providing estimates, and assisting with bidding and construction. Our staff includes 33 employees, 18 of which are licensed professional engineers. From sidewalks, curb ramps, bike trails and multi-use paths, Oates Associates brings the needed transportation experience that will be utilized to complete a successful project.

Past Performance

We have successfully completed all aspects of trail and sidewalk projects from planning through construction, including:

[Salisbury Street Enhancements, Phases I & II | St. Louis, MO](#) - 10 blocks of federally funded streetscape improvements including ADA compliant sidewalks and ramps, landscaped parkways, decorative street lights, benches and bike racks.

[Curb Ramp Upgrades | University City, MO](#) - Upgrades to 143 curb ramps to meet ADA standards. Work included evaluating 4.5 miles of sidewalks for ADA compliance and spot upgrades. 74 of the curb ramps are on a federally funded project and Oates is currently providing construction observation.

[Laclede Station Road | Maplewood, MO](#) - Pavement reconstruction, ADA compliant curb ramps, and replacement of sidewalks. The project improves traffic flow, vehicular and pedestrian safety and drainage in the area.

[McKelvey Woods Court | Maryland Heights, MO](#) - Roadway improvements to improve access and safety for motorists and pedestrians, including wider lanes, sidewalks with ADA compliant curb ramps and storm sewers and bioretention features.

[Eagle Crest Bridge | City of Chesterfield, MO](#) - Replacement of the deteriorating decorative bridge pedestrian rail and repair of the damaged concrete retaining walls.

[Mississippi River Greenway | Great Rivers Greenway](#) - Consulting services for the Mississippi River Greenway Planning Study for Great Rivers Greenway (GRG). Both off-street trail and on-street connections were identified along the corridor. As a result of the study, Oates is again working with GRG to develop a trail along the Mississippi River Greenway that connects Bellerive Park to Sister Marie Charles Park with a connection along the UP Railroad and along Broadway to Ohio Street.

[Sidewalk Inventory and Transition Plan | City of St. Charles, MO](#) - Inventory of over 400 miles of sidewalks to identify needs and deficiencies in the sidewalk system. An ADA Sidewalk Transition Plan was developed to identify, prioritize and correct these issues.

[Iberg Road | City of Highland, IL](#) - 6,100 feet of new road on new alignment, including a new fully-actuated traffic signal system, a new bridge as well as bike lanes and a shared-use path in compliance with the "Complete Streets" state law.

[Sportsman Road Trail | City of Highland, IL](#) - A 10 foot wide, 1,300 foot, asphalt multi-use path that provides a link between the Korte Recreation Center, the Peripheral Route Trail and the Northwest Peripheral Route Trail.

[SIUE Trails | Southern Illinois University Edwardsville](#) - This 3-mile long project consists of constructing new bicycle paths and upgrading existing trails on the property of SIU Edwardsville. Improvements consist of work on two separate trails, the Vadalabene Nature Trail and the Delyte Morris Trail.

[Confluence Trail Bikeway | Madison County Transit](#) - The 25-mile long trail follows the Mississippi River levee from the Melvin Price Support Center in Granite City to the Clark Bridge in Alton, Illinois. The project was funded with federal transportation enhancement funds.

[Schoolhouse Trail Bikeway | Madison County Transit](#) - This 32-mile long bike trail was constructed on an abandoned railroad alignment. The project was funded with federal transportation enhancement funds.

[Schoolhouse Trail Connector | Madison County Transit](#) - This 7-mile long trail follows an abandoned railroad line, features a new bridge carrying the trail over IL 162, and included modifications to two existing bridges, box culvert grade separation structures and a connection to the Ronald Foster Trail in Glen Carbon.

Qualifications of Personnel

Phil Murphy, PE, a Missouri licensed Professional Engineer, has provided planning and design services for local agency road projects with a specialty in transportation enhancement, including bike trail and streetscape improvements. He is a seasoned professional and has successfully implemented more than 50 miles of trails throughout the region, both off-street and on-street. His expertise includes roadway design, hydraulic analysis and the design of drainage and detention facilities. Since joining the firm in 1995, Phil has managed or been involved in several federal aid urban reconstructions. He is familiar with a variety of funding sources and has prepared grant applications for many projects.

Mike Busch, PE, PTOE has been with Oates for over 15 years. He is a Missouri licensed Professional Engineer and a Professional Traffic Operations Engineer. His experience includes federal aid transportation, pedestrian accommodations, local streets, drainage, DOT experience, and utility coordination. His traffic related experience includes traffic signal design, intersection design studies, interchange design and traffic studies. He has managed or had significant involvement in over 100 local agency and DOT assignments. He is familiar with Federal, State, and Local permitting, the LPA process and plan review by the Missouri Department of Transportation (MoDOT).

Travis Helmkamp, PE is a Missouri licensed Professional Engineer with over seven years of experience. He brings a strong understanding of local infrastructure that has been developed through his professional experience at Oates Associates. Within the last five years he has had significant involvement with 20 local roadway projects, most of which were federally funded, that involved sidewalk extensions or reconstructions. Mr. Helmkamp served as the project engineer for the Salisbury Street Enhancement project for the City of St. Louis and Curb Ramp and Sidewalk Improvement projects for the City of University City, where are described in the Company Reference Forms. He was also the project engineer for the Sidewalk Inventory and Transition Plan for the City of St. Charles, which involved the inventory of over 400 miles of sidewalks to identify needs and deficiencies in the sidewalk system. An ADA Sidewalk Transition Plan was developed to identify, prioritize and correct these issues.

Steve Keil, PE, PLS manages all survey services for the firm and serves as Project Manager on several of the firm's larger transportation projects. He is a Missouri licensed Professional Engineering and Professional Land Surveyor. He has been practicing as a licensed Professional Land Surveyor for over 15 years, and has extensive experience and knowledge in a wide variety of land surveys. He has a great deal of experience in boundary and right of way surveys along with overseeing the preparation of numerous right of way plats and ALTA/ACSM Land Title Surveys. His expertise also includes extensive route surveys as part of transportation engineering projects. Mr. Keil also manages right-of-way survey, property research and document preparation for local agency projects.

Familiarity / Capability

Oates Associates' primary engineering focus is transportation. About 90% of these projects are federally funded. Funding for our 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.

Most of our bicycle / hiking trail projects have involved federal funding, which necessitated significant public and environmental coordination and report preparation, all to the standards of federal guidelines. Although our scope has varied for each project, we generally have provided property and topographical survey, design and plan preparation and construction engineering services. Construction phase services include staking, materials testing, observation and documentation.

Accessibility

We have staff available for assignment who can begin work immediately and they will be committed to the individual agency's project for the amount of time required to meet the project schedule. Oates Associates has proven our ability to be responsive on a variety of projects for several clients. Once a schedule is set for a project, 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 local municipalities, 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.

Thank you for the opportunity to submit our qualifications to be included on the LPA On-Call Consultant List. We are hopeful that our trail and sidewalk experience and dedication to quality will be viewed favorably by the selection committee. Please contact us should you have any questions. We look forward to hearing from you.

Sincerely,

OATES ASSOCIATES, INC.



Bruce P. Schopp, PE
President / Chief Operating Officer

Engineering + Architecture



OATES ASSOCIATES
Engineering + Architecture



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 30 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

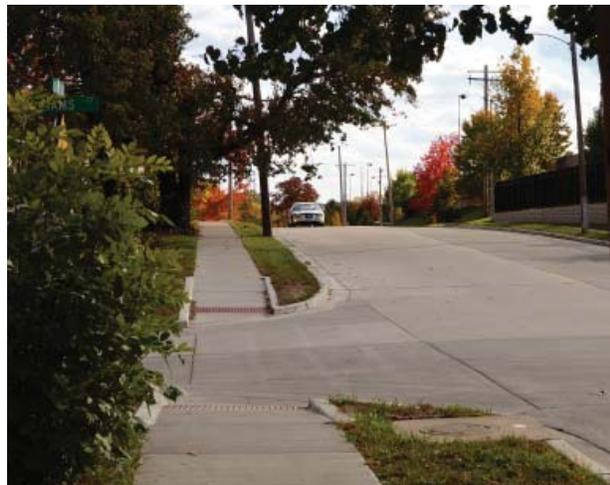
Pedestrian Facilities

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



IL 255 from IL 162 to I-270.



Federally funded roadway and sidewalk improvements along Laclede Station Road for the City of Maplewood, Missouri.



Inventory of sidewalks for the Sidewalk Inventory and ADA Transition Plan for the City of St. Charles, Missouri.

SERVICES

Trails

Our staff has developed considerable experience in the design of bicycle / hiking 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 50 miles of bike trails and greenways, including on-street and off-street connections. Further, we have designed shared-use paths and sidewalks compliance with the “Complete Streets” state law.

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

Traffic Engineering

Oates has completed traffic impact studies for various municipalities and developers. 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 and Traffic Signal Design,
- Roundabouts
- Traffic Calming
- Control Warrants
- Intersection Modifications / Reconstructions

Structural Engineering

Our structural design staff has significant experience in bridge / box culvert design and retaining walls as well as building structures. They have designed over 150 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.

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



Federally funded Cleveland Avenue Bridge in Belleville, Illinois.



Pedestrian walkway over US 67 and UP / NS Railroad in Alton, Illinois.

SERVICES

Architecture

Our team of architects brings extensive knowledge of the built environment due to diverse design backgrounds. From new construction to renovations to repairs, we have designed facilities for municipalities, universities, schools, private clients, and retail and banking sectors. Our staff includes several LEED Accredited Professionals with practical green building experience and knowledge of sustainable site solutions.

- Conceptual Layout / Planning
- Building Design
- Interior Space Planning and Design
- Building Code Compliance
- Sustainable Design
- LEED Consulting

Structural Engineering - Buildings

We provide structural engineering design for a variety of buildings and building types throughout the region, creatively adapting the structural components to the design. From new multi-million dollar facilities to building additions, we have crafted solutions that create great places.

- Building Inspections
- Building Structural Systems
- Foundations

Site Design

Our architects, engineers and landscape architects work together 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 80 locations.

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

Survey Services

Our in-house survey staff assists our engineers by providing the initial topographic and right of way survey, and all required land acquisition documents for our projects. Oates Associates provides a wide range of surveying services to its clients which include:

- Control
- Route
- Topographic
- Right-of-Way
- Hydraulic
- 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 to supplement our client's staff. Our construction engineering services include:

- Shop Drawing Reviews
- Coordination and Progress Meetings
- Construction Observation
- Material Testing
- Utility Coordination
- Federal documentation



Porous pavement parking lot in University City, Missouri. Oates provide civil and construction engineering services.