

November 15, 2013

Mr. Kenny Voss, PE  
Local Programs Administrator  
Missouri Department of Transportation – Central Office  
105 W. Capitol Avenue  
Jefferson City, MO 65102

**Re: Letter of Interest – Trails & Sidewalks  
LPA On-Call Professional Services  
Grove Design PI3033**

Dear Mr. Voss:

Grove Design Group LLC (Grove Design) is pleased to submit this Letter of Interest to provide local public agencies with professional engineering design services for trail and sidewalk projects throughout the State of Missouri. Grove Design maintains a comprehensive project organization with elements necessary for complete, smooth, and successful trail and sidewalk design projects. Our firm brings the necessary technical skills and experience to provide timely and cost effective design solutions, ongoing communication, and excellent customer service. For these reasons, we request local public agencies (LPA) consider Grove Design when selecting a firm to provide design phase services for trail and sidewalk projects.

### **General Experience of Firm**

Grove Design works with municipalities and other local agencies providing, trail and sidewalk design solutions tailored to constrained budgets and timetables while offering extraordinary service. So that we may meet or exceed project DBE requirements and deliver land survey, traffic, geotechnical, materials testing, landscape architecture, and other specialty project needs, we have long-established relationships with teaming partners with similar firm philosophies. We strive to match the best sub-consultant to each project.

As a firm established in June of 2012, we have completed studies and cost analyses for the cities of Town & Country and Fenton, and are nearing the completion of trail and sidewalk designs for the cities of Creve Coeur and Ferguson. Descriptions and details of these projects and others are listed below and in our firm brochure.

#### ***Graeser Road Resurfacing and ADA Improvements - City of Creve Coeur***



Grove Design is providing engineering design and construction services for the federally funded Graeser Road Resurfacing Project in the City of Creve Coeur. Improvements include mill and overlay of approximately 1.3 miles of two-lane urban collector roadway including modifications to ADA facilities at intersections and cross streets, curb and gutter repair, full depth subgrade repair, and ADA retrofits of existing residential driveway entrances and sidewalks. Design scheduled for completion in February 2014 with construction following in the summer. Contact Creve Coeur City Engineer Matt Wohlberg at (314) 442-2084.

#### ***Hudson Park & Ferguson Community Center Loop Trails – City of Ferguson***

Grove Design is working with the City of Ferguson to provide design phase services for two loop trails at the City of Ferguson's new Community Center (1050 Smith Avenue) and nearby Hudson Park. Improvements include crushed stone and asphalt trail facilities, grading, culvert design, ADA improvements, and signalized midblock crossings. The project is in design and scheduled for completion in 2013. Contact Ferguson Director of Public Works Matt Unrein at (314) 524-4721.

#### ***Topping Road Programming Study - City of Town & Country***

In 2013, Grove Design completed a planning study and federal grant application for improvements to Topping Road in the City of Town and Country. Proposed improvements spanned the 1.5 mile length of Topping Road from Manchester Road (Hwy 100) to Clayton Road. The City desired to preserve the roadway through resurfacing and provide a new, separated 8-foot wide pedestrian path to serve as a link to the popular Clayton Road Trail. The project culminated with an STP-S New Project Application and opinions of probable cost for design, right of way, and construction phases. Contact Town & Country Director of Public Works Craig Wilde at (314) 432-6606.

### **Past Performance**

The table on the following page summarizes Grove Design's past record of performance with respect to schedules and budgets in the design and construction phases for trail and sidewalk projects.

Project & Owner	Design/ Construction Completion	Type & Length	Estimated/Actual Costs		Estimated/ Actual Design Schedule	Project Elements
			Design	Construction		
<b>Topping Road Programming Study</b> Town & Country MO	March 2013 N/A	<b>Trail</b> ~1.5 mi	\$25,000 \$25,000	N/A	6 months 6 months	<b>Pedestrian Enhancements</b> <b>ADA Facility Upgrades</b> Stormwater
<b>Pertinent Staff &amp; Roles:</b> Aaron R. Terry, Project Manager <b>Contact Information:</b> City of Town & Country, Craig Wilde, Director of Public Works, (314) 432-6606						
<b>Graeser Road Resurfacing and ADA Improvements</b> Creve Coeur, MO	Feb 2014 (est) 2014 (est)	Roadway Resurfacing 1.3 mi	\$50,667 In Progress	\$725,000 In Design	5 months 10 months (est) <sup>1</sup>	<b>STP/Federally Funded</b> Roadway Resurfacing <b>Pedestrian Enhancements</b> Stormwater
<b>Pertinent Staff &amp; Roles:</b> David A. Ellermann, Project Manager <b>Contact Information:</b> City of Creve Coeur, Matt Wohlberg, City Engineer, (314) 442-2084						
<b>Hudson Park and Community Center Loop Trails</b> City of Ferguson, MO	June 2013 June 2014 (est)	<b>Trails</b> ~0.75 mi	\$19,500 \$19,500	\$190,000 Not Yet Constructed	6 months 5 months	Locally Funded <b>Pedestrian Facilities</b> <b>Mid-block Cross Walk</b>
<b>Pertinent Staff &amp; Roles:</b> Benjamin M. Niesen, Project Manager <b>Contact Information:</b> City of Ferguson, Matthew Unrein, Director of Public Works, (314) 524-4721						

I. Schedule extended due to unplanned right of way acquisition.

## Qualifications of Personnel

Our group consists of municipal engineers successfully employing creative solutions to fit the hard-to-solve problems local agencies face on an ongoing basis. We are experienced individuals having produced and managed municipal design and construction projects for roadway, pedestrian, and stormwater improvements throughout our careers. Our comprehensive familiarity with the intricacies of municipal engineering allows us to meet clients' needs and the needs of project stakeholders, ranging from residents and business owners to elected officials and service providers. Our team brings qualified engineering professionals to provide excellent design products at each submittal throughout the life of the project.

### **Aaron R. Terry, PE, CFM, PMP, Principal & Project Manager**

Aaron entered into municipal engineering during a public works internship in his hometown of Elizabethtown, Kentucky and has been involved with the planning, design, and construction of infrastructure improvements since that time. His trail experience began after his arrival in St. Louis in 2003 and includes the planning, design, and management of trail projects for the Great Rivers Greenway District (GRG) and the cities of Hazelwood, Wildwood, and Town & Country. As the need for stricter compliance with the ADA has arisen, Aaron has worked with the cities of O'Fallon, Clayton, Brentwood, Sunset Hills, and Creve Coeur to improve sidewalks, curb ramps, and pedestrian access routes. Several of these projects were funded through the surface transportation program. *In addition to providing project management, Aaron offers technical support, oversees Grove Design's Quality Management Plan for deliverables, and provides assurance that the Client receives the best possible customer service.*

### **David A. Ellermann, PE, Project Manager**

David's experience in engineering began with the Illinois Department of Transportation as a Co-op Engineer Technician serving three, nine-month tours in the construction division with District 8. He gained valuable field experience that has translated to better design and engineering decisions during plan production that result in construction efficiencies and savings for the client. After graduating from university, David has spent the last 20 years designing and managing projects that include roadways with sidewalks, multi-use trails, and municipal park development. Projects include asphalt and aggregate multi-use trails, roadway resurfacing with upgrades to accessible facilities, complete roadway and sidewalk reconstructions, a 10.7 mile trail alignment study, and a new park development with trails and accessible RV facilities. *David provides project management and leadership to ensure projects remain on schedule and budget.*

### **Benjamin M. Niesen, PE, ENV SP, Principal & Design Engineer**

Ben began his career working as a seasonal construction inspector for the Missouri Department of Transportation District 9, influencing his decision to become a civil engineer. He then worked for two private consulting firms managing design projects for private development and linear projects. Ben spent three years managing capital improvement projects for the City of Chesterfield, including the Monarch-Chesterfield Levee Trail and Misc. ADA Accessible Ramp Improvement projects providing engineering design and construction phase services. At Chesterfield, Ben developed a strong understanding of the municipal public works project process from conception to completion. *Ben serves as a Design Engineer and Technical Lead, assisting David and Aaron with project design and ensuring technically sound deliverables.*

## Familiarity/Capability

In the last five years, our staff - while at Grove Design and previous firms - have successfully completed over twenty federally funded projects for various cities and local governments including Chesterfield, Clayton, Creve Coeur, Fenton, Maryland Heights, and Wildwood. With projects funded through FHWA, all plans, specifications and construction cost estimates must be submitted to MoDOT for review through the Local Roads Division. This includes right-of-way plans, preliminary design plans, and final design plans. MoDOT must approve all plans at multiple points throughout the project life span for the project to progress on schedule. Grove Design personnel have extensive knowledge of the LPA process, including ongoing revisions to the LPA manual. Grove Design typically begins STP projects by meeting with the MoDOT liaison engineer to discuss MoDOT's view of the project and to ensure the project goals for the regional planning organization, the Local Agency, and MoDOT are in alignment. This typically reduces review comments and project delays.

Quality and Schedule are paramount to Grove Design's core philosophies on federally funded projects. To that end, we have developed a quality manual focused heavily on planning, document control, and plan review. Our quality control and project management plans are centered around and reference the Recommendations and Checklists for Ensuring Quality Infrastructure Projects authored by the American Public Works Association (APWA) Kansas City Metropolitan Chapter, the American Council of Engineering Companies (ACEC) of Missouri, and ACEC of Kansas. Prior to all plan submittals, a thorough review of the agreed upon design criteria, the improvement plan checklist, and the overall consistency of the submittal package will be completed by the Quality Lead. This process is designed to minimize plan ambiguities, increase customer satisfaction, and reduce plan review time.

## Accessibility

Grove Design employs the use of a web-based project management information system to facilitate communication, file sharing, and schedule management with the City, other team members, and the Public (on a project-by-project basis). Use of such collaboration software allows us to store crucial project information in a central location, ensuring easy access for all project team members and increasing productivity and understanding.

Clients have come to expect Grove Design's skillful management of trail and sidewalk projects, ongoing communication, responsiveness, attention to detail, and exceptional service. This record of responsiveness to our clients' needs is exemplified through our clients' desire to choose Grove Design personnel to assist them repeatedly with multiple projects. The following testimonials from municipal clients that have chosen to work with David, Aaron, and Ben on several projects affirms our firm's accessibility and we encourage you to contact them as their words may prove more valuable than ours.

*I had the pleasure of working with Mr. Terry on a federally-funded sidewalk project for the City of O'Fallon. Mr. Terry's extensive knowledge of all aspects of a project and his ability to apply sound engineering practice with common sense is beyond impressive. I look forward to working on the next project with Mr. Terry and Grove Design.*

**Dan Buesse, PE, PTOE, Project Manager, City of O'Fallon Missouri - (636) 379-5492**

*"It was my pleasure to work alongside Ben Niesen at the City of Chesterfield. Working with a municipal government, Ben was able to view projects from the owner's perspective and as such, has an appreciation for not only the initial cost, but ongoing operational impacts. I was continuously impressed with Ben's desire to tackle new technologies and identify innovative solutions."*

**Mike Geisel, PE, Director of Public Services, City of Chesterfield, Missouri - (636) 537-4762**

*"Mr. Terry is one of the most effective engineers that I have worked with. Not only is he current on design practices and various jurisdictional requirements, he is able to apply common sense to determine solutions to complex problems. This has been evident on the projects we have worked together on which have ranged from roadway reconstruction to a variety of storm water improvement projects."*

**Anne C. Lamitola, PE, Director of Public Works, City of Ladue, Missouri - (314) 993-5665**

## Why Grove Design

Grove Design understands and embraces the crucial elements necessary to successfully usher local government trail and sidewalk design projects to completion, with the goal of exceeding Clients' expectations. We strive to deliver quality deliverables for every facet of the project and provide continuous and complete communication between involved parties. Founded on the belief that our clients deserve the best customer service, we pride ourselves on our communication and *it is our mission to make each project more important to us than it is to our clients*. If you would like to discuss our representative projects and services further, or have any questions, please contact me at (314) 514-4237 or email [aterry@grovedesigngroup.com](mailto:aterry@grovedesigngroup.com).

Very truly yours,

**Grove Design Group LLC**



Aaron R. Terry, PE  
Principal-in-Charge

## Firm Description

Grove Design Group LLC was established in 2012 and is owned and operated by Aaron R. Terry and Benjamin M. Niesen. The firm is licensed in Missouri (E-2012015272) and located in the City of St. Louis, serving as an infrastructure consultant providing study, design, and construction phase services for roadways, bicycle and pedestrian facilities, storm water, and streetscapes while focusing on the unique needs of local governments. Please visit [grovedesigngroup.com](http://grovedesigngroup.com) for additional information.

Our group consists of municipal engineers successfully employing creative solutions to fit the hard-to-solve problems local agencies face on an ongoing basis. We are experienced individuals having produced and managed municipal design and construction projects for roadway, pedestrian, and stormwater improvements throughout our careers. Our comprehensive familiarity with the intricacies of municipal engineering allows us to meet your needs and the needs of project stakeholders, ranging from residents and business owners to elected officials and service providers. Grove Design builds relationships with clients and review agencies to facilitate project understanding and regulations. Our knowledge of these needs and requirements improves delivery time and project efficiency while reducing resubmittals.

## Types of Trail & Sidewalk Design Services Offered

- Multi-Use Trails/Paths
- Sidewalks, Streetscapes, & Lighting
- Bicycle Facilities
- Pavement Rehabilitation
- Retaining Walls
- ADA Compliant Infrastructure
- Pedestrian Access Routes
- Pedestrian Bridges
- Pervious Pavements
- Stormwater & Water Quality



Appalachian Trail, Chesterfield, December 2012  
(Designed by Grove team members while at other firms)

- Railroad Coordination
- Railroad Grade Crossings
- Alignment Studies
- Park Infrastructure Design
- Grant Applications
- Permitting
- Construction Plans & Specifications
- Contract Administration
- Construction Management
- Federally Funded Projects

## Grove Design Team

### Aaron R. Terry, PE, CFM, PMP, Principal & Project Manager

Registrations: Professional Engineer, Missouri (License #2009019954), Illinois, Montana, and Nevada

Technical Interests: Aaron's experience and technical interests lie in the following areas: road design, bridges, culverts, stormwater, water quality best management practices, sanitary sewers, trails, ADA, construction management, flood studies, and surveying.

Aaron has over fourteen years' experience in the design and management of civil engineering projects with additional expertise in construction inspection and materials testing. Throughout his career, he has worked closely with local public agencies and MoDOT's LPA staff to ensure the success of a multitude of federally and locally funded projects. *In addition to providing project management, Aaron offers technical support, oversees Grove Design's Quality Management Plan for technical deliverables, and provides assurance that the Client receives the best possible customer service.*

### David A. Ellermann, PE, Project Manager

Registrations: Professional Engineer, Missouri (License #29440), Illinois, Washington, and Indiana

Technical Interests: David's experience and technical interests lie in the following areas: roadway design, conceptual studies, multi-use trails, ADA compliance, stormwater, water quality best management practices, sanitary sewers, and surveying.

David is a skilled senior design engineer with over twenty years of civil engineering design and project management experience, including storm water; channel restoration; sanitary; and all aspects of municipal, rural, and major urban road and interstate design. He has successfully completed projects from the conceptual phase through final design including: surveys, utility coordination, public involvement, right of way, permitting, preliminary and final construction plans, bid documents, cost estimating, and field inspection. *David provides project management and leadership to ensure projects remain on schedule and budget.*

### Benjamin M. Niesen, PE, ENV SP, Principal & Design Engineer

Registrations: Professional Engineer, Missouri (License #2010000851)

Technical Interests: Ben's experience and technical interests lie in the following areas: bicycle infrastructure, pedestrian facilities, road design, planning studies, capital improvement project management, and ADA compliance.

Ben has eleven years of civil engineering design, construction inspection & materials testing, and public sector project management experience. He managed capital improvement projects for the City of Chesterfield, including roadway concept design and project planning. At Chesterfield, Ben developed a strong understanding of the municipal public works project process from conception to completion. Before his time in the public sector, Ben managed the design of private developments, roadways, and stormwater projects in the private sector. *Ben serves as a Design Engineer and Technical Lead, assisting David and Aaron with project design and ensuring technically sound deliverables.*

## Representative Projects – Trails & Sidewalks

### Graeser Road Resurfacing and ADA Improvements - City of Creve Coeur



Grove Design is providing engineering design and construction services for the federally funded Graeser Road Resurfacing Project in the City of Creve Coeur. Improvements include mill and overlay of approximately 1.3 miles of two-lane urban collector roadway including modifications to ADA facilities at intersections and cross streets, curb and gutter repair, full depth subgrade repair, and ADA retrofits of existing residential driveway entrances and sidewalks. Design scheduled for completion in February 2014 with construction following in the summer. Contact Creve Coeur City Engineer Matt Wohlberg at (314) 442-2084.

### Hudson Park & Community Center Loop Trails – City of Ferguson

Grove Design is working with the City of Ferguson to provide design phase services for two loop trails at the City of Ferguson's new Community Center (1050 Smith Avenue) and nearby Hudson Park. Improvements include crushed stone and asphalt trail facilities, grading, culvert design, ADA improvements, and signalized midblock crossings. The project is in design and scheduled for completion in 2013. Contact Ferguson Director of Public Works Matt Unrein at (314) 524-4721.

### Topping Road Programming Study - City of Town & Country

In 2013, Grove Design completed a planning study and federal grant application for improvements to Topping Road in the City of Town and Country. Proposed improvements spanned the 1.5 mile length of Topping Road from Manchester Road (Hwy 100) to Clayton Road. The City desired to preserve the roadway through resurfacing and provide a new 8-foot wide pedestrian path to serve as a link to the popular Clayton Road Trail. The project included coordination with a citizen task force and culminated with an STP-S New Project Application and opinions of probable cost for design, right of way, and construction phases. Contact Town & Country Director of Public Works Craig Wilde at (314) 432-6606.

### Clayton Road Resurfacing & Pedestrian Enhancements, Phases I & II - City of Town & Country

While at another firm, Aaron was project manager for Phase I of the federally funded improvements along Clayton Road, which included structural roadway resurfacing and new multi-use path separate from the roadway. Aaron was also project manager for Phase II until his departure from that firm to establish Grove Design. The projects began just east of Old Woods Mill Road and traversed east to the eastern City limits. Phase I was approximately 1.2 miles long and Phase II approximately 1.5 miles long. The range of improvements included a resurfaced roadway, pedestrian bridge, solar powered rapid flashing beacons at pedestrian crossings, improved intersection crossings, improved bus stops, water quality swales, and decorative concrete walls. Aaron managed the development of traffic studies, prepared design plans, and acquired design approval from MSD and MoDOT LPA. Construction was completed in 2013. Contact Town and Country Director of Public Works, Craig Wilde at (314) 432-6606.

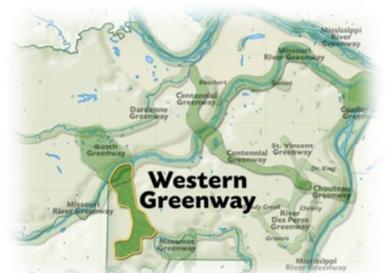


### Legion Park to Route 66 Trail - City of Eureka

While at a previous firm, David was project manager and lead designer for approximately one mile of new multi-use and ADA accessible asphalt trail. The trail connects Legion Park to Kircher Park via off-road trails and through other projects to the Meramec Greenway. David was responsible for overall project design, production, budget, and schedule. Federal Aid was secured during the design, and plans and specifications were modified to ensure compliance with MoDOT and FHWA rules regarding federally funded projects. Project completed in 2012. Contact Eureka Parks and Recreation Coordinator Missy Rathmann at (636) 938-6775.

### Wildwood Greenway Phase VII - City of Wildwood

While at another firm, Aaron was project manager for the Wildwood Greenway Phase VII, a 1.25 mile trail project in the City of Wildwood. The trail begins at the northeast quadrant of Clayton Road and Highway 109 intersection, traverses north past Babler Elementary School, and terminates at the intersection of Garden Valley Court and Garden Ridge Circle. Alignment was first determined in the field, allowing for a reduced survey corridor, thereby saving time and money. Portions of the trail were designed and constructed of pervious pavement while others utilized credits (swales, disconnects, etc.) to meet Phase II water quality requirements. Steep grades along a slope at Bent Ridge Drive drove the need for a switchback to maintain reasonable accessibility. Multiple stream crossings were addressed with modified box culverts. The project was completed in 2010. Contact Wildwood Director of Public Works Ryan Thomas or Assistant City Engineer Mike Hartwig at (636) 458-0440.



Graphic Courtesy Great Rivers Greenway District

### **Central Business District Pedestrian Enhancements - City of Clayton**

While working at another firm, Aaron was project manager for design of sidewalk reconstruction with streetscape improvements in the Central Business District (CBD) of Clayton, Missouri. The project began with the 200 Block of S. Central Avenue in 2007 and expanded in final design to include improvements in five additional city blocks. The project added street trees, enhanced sidewalks with decorative tooling patterns, added irrigation systems, modified storm sewers, and retrofitted curb ramps. Federal Aid was secured during the design, and plans and specifications were modified to ensure compliance with MoDOT and FHWA rules regarding federally funded projects. Prior to leaving the previous firm to start Grove Design Group, Aaron ushered plans and specifications through 90% design. Project completed in 2013. Contact City of Clayton Civil Engineer Steve Meyer at (314) 290-8547.

### **Sappington Barracks - City of Sunset Hills**



While with a previous firm, Aaron was the project manager responsible for this design project stretching approximately 2,000 feet from Gravois Road to Oleander Drive. Project scope included roadway reconstruction and widening, sidewalk and curb ramp construction, intersection adjustments and warping, stormwater swales as water quality devices, storm sewer, and driveway approaches. Aaron was responsible for project production, budget, and schedule during the design phase which was completed in 2010. Contact Ladue Director of Public Works, formerly Sunset Hills Public Works Director, Anne Lamitola at (314) 993-5665.

### **St. Stanislaus Trail Extension - City of Hazelwood**

Aaron was the final design and construction project manager for a 1,100-foot long multi-use trail while at another firm. The St. Stanislaus Trail Extension ties into the existing St. Stanislaus Trail which runs along Hazelwood's western bluff of the Missouri River. The project was funded by the Missouri Department of Natural Resources on land owned by St. Louis County and maintained by the Missouri Department of Conservation. Aaron took over the project from preliminary design and delivered a biddable and buildable set of construction documents, obtained necessary permitting through the US Army Corps of Engineers, St. Louis County Highways & Traffic, and MSD. Project completed 2010. Contact Hazelwood Superintendent Doug Littlefield at (314) 731-0980.



### **Earth City Levee Trail - Great Rivers Greenway District**

While at a previous firm, Aaron was project manager for the Earth City Levee Trail, a three-mile long trail stretching from I-70 to just north of Highway 370, generally following the Earth City Levee. The northern terminus of the trail ends at a new trailhead facility just north of 370 made of pervious pavement. The project also included modifications to an existing trailhead at St. Charles Rock Road. Both trailhead facilities were designed to maximize treatment of stormwater runoff. New ramps were designed on both the north and south sides of Hwy 370 to facilitate safe bicycle access from the Levee Trail to the Highway. The north ramp required resurfacing while accessibility and safety concerns were addressed on the south ramp. Coordination was maintained between GRG, Earth City Levee District, MoDOT, MoDNR, City of Bridgeton, St. Louis County, and the USACE. Aaron was responsible for design phase construction documents and permitting through final design. Design completed 2011. Contact GRG Project Manager Patrick Owens at (314) 436-7009.

### **Sunset Park Trail Phase II - Great Rivers Greenway District**



While with another firm, Aaron was the project manager for the 2,000 linear foot Sunset Park Trail which runs along Coldwater Creek beginning at St. Ferdinand Park and ending at Old St. Ferdinand Shrine. Amenities such as enlarged vertical curbing and decorative fencing for separation were included in the project to accommodate both trail users and adjacent property owners. At Lindbergh Boulevard an aerial gas main bridges Coldwater Creek and tunnels into the side slope embankment. An ADA compliant switchback was designed and retaining walls were configured such that the high pressure gas main could remain in place. Other trail improvements included an ADA compliant pedestrian crossing, pedestrian signal, gazebo, and paver walkway accessing a historical structure. Aaron was responsible for preparing design plans, management of design staff, and utility coordination. Project completed in 2008.

### **Feise Road Sidewalk Improvements Project - City of O'Fallon**

While at a previous firm, Aaron was project manager for the design phase of 2.1 miles of sidewalk along Feise Road. Project design elements included eight foot wide sidewalks adjacent to the back of curb, accessible ramps at public intersections, driveway approaches and aprons, and aesthetic improvements. Aaron was responsible for overall project design, production, budget, and schedule. Design completed in early 2012.

## Representative Trail & Sidewalk Projects Managed by Grove Design Staff

Project Name	Client	Project Type	Funding Source
Hudson Park Loop Trail	City of Ferguson	Crushed Stone Walking Trail/Signalized Crosswalks	Local
Ferguson Community Center Loop Trail	City of Ferguson	Asphalt Trail/ADA/Retaining Wall	Local
Topping Road Programming Study	City of Town & Country	Trail Facility/Alternatives Assessment/Grant Application	Local
Graeser Road Resurfacing and ADA Improvements	City of Creve Coeur	Sidewalks/ADA/Roadway Resurfacing	Federal
Appalachian Trail Street Reconstruction - Phase I <sup>1</sup>	City of Chesterfield	Sidewalk Replacement/ADA/Intersection Enhancement	Federal
Chesterfield Parkway East - Pedestrian Bridge <sup>1</sup>	City of Chesterfield	Sidewalk Installation/ADA/Grant Application/Bicycle	Local
I 0 N Central - Streetscape Grant Application Assistance <sup>1</sup>	City of Clayton	Pedestrian/Streetscape/Grant Application/OPC	Local
Central Business District Pedestrian Enhancements <sup>1</sup>	City of Clayton	Pedestrian ADA Improvements/Streetscape	Local
Clayton Rd Resurfacing & Pedestrian Enhancements Phase I <sup>1</sup>	City of Town & Country	Multi-use Trail Parallel to Clayton Road	Federal
Clayton Rd Resurfacing & Pedestrian Enhancements Phase II <sup>1</sup>	City of Town & Country	Multi-use Trail Parallel to Clayton Road	Federal
St. Stanislaus Trail <sup>1</sup>	City of Hazelwood	Multi-use Trail	Federal
Misc. Sidewalk Improvements <sup>1</sup>	City of O'Fallon	8' & 4' Wide Sidewalks	Federal
Wildwood Greenway Ph. 7 <sup>1</sup>	City of Wildwood	Multi-use Trail	Local/Federal
Earth City Levee Trail <sup>1</sup>	Great Rivers Greenway	Trail Adjacent to Levee/Trailhead/Parking Lot	Local
Riverwoods Trail <sup>1</sup>	Great Rivers Greenway	Trail Adjacent to Missouri River/Trailhead/Parking Lot	Local
Sunset Park Trail Phase II <sup>1</sup>	Great Rivers Greenway	Multi-use Trail Adjacent to Creek/Switchback	Local
Sunset Park Trail Phase III <sup>1</sup>	Great Rivers Greenway	Multi-use Trail Adjacent to Missouri River/Rest Area	Local
Western Greenway Alignment Study <sup>1</sup>	Great Rivers Greenway	Trail Alignment Study/ADA/Detailed Estimates	Local
Monarch-Chesterfield Levee Trail <sup>1</sup>	City of Chesterfield	Multi-use Trail on Levee/Trailhead	Local
Cottleville to St. Peters Connector <sup>1</sup>	Great Rivers Greenway	Multi-use Trail/Pedestrian Signal/Pedestrian Bridges	Local
Legion Park to Route 66 Trail <sup>1</sup>	City of Eureka	Multi-use Trail/Pedestrian/Stormwater	Federal
Monarch Levee to Babler State Park Trail <sup>1</sup>	Great Rivers Greenway	Greenway Trail/Park Enhancements/Trailhead	Local
Misc. Accessible Ramp Improvements <sup>1</sup>	City of Chesterfield	Curb Ramps/ADA/Sidewalks	Federal
Spoede Road Resurfacing <sup>1</sup>	City of Creve Coeur	Pedestrian ADA Improvements/Roadway Resurfacing	Federal
Parkwood Lane/Doddridge Ave Reconstruction <sup>1</sup>	City of Maryland Heights	Sidewalks/Water Quality/Stormwater/Reconstruction	Federal
Sappington Barracks Road Improvements <sup>1</sup>	City of Sunset Hills	Sidewalk/ADA Improvements/Roadway	Local
Old Business Highway 61 <sup>1</sup>	City of Wentzville	Sidewalks/Roadway/Roundabout/Signals/Stormwater	Federal
St. Charles Eco-Park <sup>1</sup>	City of St. Charles Parks	Multi-use Trail/Wetland Construction/Pedestrian Bridges	Local

<sup>1</sup> Representative projects managed by Grove Design staff prior to the formation of Grove Design.