



**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:

Quad Knopf, Inc. dba VSM, a QK Company

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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**

Missouri's Local Program
105 West Capitol Avenue, P.O. Box 270
Jefferson City, Missouri 65102

Trail and sidewalk projects delivered through Missouri's Local Program play a vital role in helping communities improve accessibility, expand multimodal options, and comply with federal standards. These projects require consultants who can integrate engineering, accessibility, drainage, utility considerations, and landscape architecture to deliver safe, durable pedestrian facilities.

Prequalified

VSM, a QK Company (VSM/QK) is fully prequalified for the Trails & Sidewalks category and is eligible to provide these services statewide under the 2026–2029 LPA On-Call program.

General Experience of Firm

VSM/QK delivers trail and sidewalk projects that incorporate the Americans with Disabilities Act (ADA) and Public Rights-of-Way Accessibility Guidelines (PROWAG) compliance, shared-use path design, pedestrian bridges, drainage integration, hydraulic and hydrologic (H&H) analysis, culvert sizing, and utility coordination. Our approach balances technical requirements with community connectivity and constructability.

Our engineering team works collaboratively with QK's landscape architects to integrate aesthetics, safety, site grading, and user experience into trail and sidewalk projects. This multidisciplinary capability strengthens our ability to support Local Public Agencies (LPA)s across Missouri.

Qualifications of Personnel

Our pedestrian and trail design team includes:

- **Sarah Schultz, PE (MO)** – Experienced in culvert design, H&H analysis, ADA/PROWAG implementation, and federal documentation.
- **Matthew Combs, PE (MO)** – Experienced in culvert design, H&H analysis, ADA/PROWAG implementation, and federal documentation.
- **John McGee, LLA** – Landscape Architect with extensive experience designing community-focused outdoor spaces and multimodal corridors, integrating aesthetics, functionality, and stakeholder collaboration.
- **Tony Ignacio, LLA** – Landscape Architect skilled in sustainable, community-centered design for parks, civic spaces, and multimodal environments, blending environmental stewardship with practical, accessible solutions.

Past Performance

Our team has delivered trail, sidewalk, and roadway projects throughout Missouri, including:

- **Nashua Elementary Sidewalks:** 10,750 linear feet of sidewalk with ADA-compliant upgrades and neighborhood access.
- **Liberty Drive Sidewalks:** Three miles of sidewalk improvements supporting safe pedestrian travel and school access.
- **North Troost Trail:** 6,600 linear feet of ADA-compliant trail, culvert sizing, a pedestrian bridge, and Federal Emergency Management Agency (FEMA) No-Rise coordination.

- **Blue River Trail- Martha Truman Connector:** 3,325 linear feet and 10-foot-wide concrete trail runs along the east side of the Blue River.

Familiarity/Capability

VSM/QK is well-versed in requirements central to LPA trail and sidewalk projects, including:

- Federal Highway Administration (FHWA) pedestrian facility guidance
- ADA and PROWAG standards
- Federal-aid documentation and coordination
- Floodplain considerations, H&H analysis, and drainage design
- Utility coordination for pedestrian corridors

We understand the realities local agencies face: tight review timelines, federal compliance requirements, aging infrastructure, and the need to balance technical precision with practical, buildable solutions. Our team provides accuracy, clarity, and responsiveness at every project stage—qualities consistently valued by LPA sponsors and MoDOT district staff.

To support efficient delivery, our leadership conducts disciplined resource planning across all technical groups. We identify needed skill sets, confirm personnel availability, and reserve team time early. This proactive planning secures the appropriate expertise before your project begins and maintains continuity throughout design and coordination.

Accessibility

We support MoDOT districts and LPA sponsors statewide using cloud-based plan review tools, BIM/3D modeling, remote meeting platforms, and fast internal coordination workflows. These tools enable efficient communication, real-time document access, and timely response to LPA review cycles.

Sincerely,



**John Doyel, PE (CA), PLS,
QSD/QSP**
Principal-In-Charge



Christopher B. Mynk, AICP
Principal Planner & Kansas
City Branch Manager

KEYS TO PROJECT SUCCESS



EXPERIENCED TEAM

VSM/QK personnel and subconsultants have experience working together, funding experience, and MoDOT expertise.



ESTABLISHED QA/QC PROCESS

VSM/QK's process begins at project kick-off and is a systematic approach with proven results.



THOROUGH REVIEWS

We perform detailed constructability and ADA reviews at various project stages to verify compliance throughout the project.



DETAILED AUDITS

We perform MicroStation and utility audits of every design to deliver a sound, clean, biddable, and constructible document set.



FUNDING

If applicable to the project, our team works to understand the "how" of the funding process.



CLEAR FORESIGHT

We visit the project site during the proposal process to identify critical project considerations and better develop our scope and fee.

FIRM BROCHURE

VSM

Valerie McCaw, PE, established VSM Engineering in 2003. The business began out of Valerie's home, where she leveraged her background as a former government employee, along with her education, to secure two contracts with Platte County, Missouri, as the Interim County Engineer and the Roads Master Plan Engineer. During this time, Valerie McCaw was the Road Master Plan Engineer for a \$50 million program, including management of contracts for roadway and bridge projects, construction management for road and bridge projects, and utility relocations.

QK

Since 1972, QK has successfully partnered with cities, counties, state agencies, and other public agencies to develop efficient solutions that have lasting positive impacts on Central Valley communities. Founded on the idea of providing high-quality engineering and planning services to Central Valley cities, we now offer an array of services that contribute to sustainable communities and elevate the quality of life. Our diverse team of 145+ employees provides civil engineering, land surveying, utility coordination, construction management, labor compliance, urban design, landscape architecture, geographic information systems, land use planning, environmental planning and permitting, and biological resources from seven offices. We take pride in the ability to offer in-house, programmatic professional services to serve our diverse clientele.

SERVICES

 Advanced Unmanned Aerial System Mapping	 Labor Compliance
 Biological Resources	 Land Surveying
 Civil Engineering	 Land Use Planning
 Construction Management	 Landscape Architecture
 Environmental Permitting	 Public Outreach
 Environmental Planning	 Urban Design
 Geographic Information Systems	 Utility Coordination

OFFICES

| Kansas City | Bakersfield | Clovis | Visalia
| Hanford | Porterville | Merced

TEAM

27	Professional Engineers (PE)
9	Professional Land Surveyors (PLS)
2	Licensed Landscape Architects (LLA)
11	Assistant & Associate Engineers
10	CADD Technicians & Designers
4	Construction Managers
15	Land Use & Environmental Planners
16	Environmental Scientists
14	FAA-Certified Drone Pilots
4	Geographic Information System Specialists

FIRM INFO

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QUALIFICATIONS OF PERSONNEL ASSIGNED



SARAH SCHULTZ, PE (MO), QCIS, QPSWPPP, SENIOR ENGINEER 17 years of experience in drainage, culvert, and storm sewer design, SWPPPs under NPDES permits, and FEMA-compliant floodplain permitting, hydraulic analyses, and environmental documentation. Notable projects: Nashua Elementary Sidewalks, Liberty Drive Sidewalks & Waterline, Blue River Trail- Martha Truman Connector, North Troost Trail.



MATTHEW COMBS, PE (MO), QPSWPPP, SENIOR ASSOCIATE ENGINEER Four years supporting municipal infrastructure projects with a focus on trail and sidewalk design, stormwater compliance, and grading for pedestrian corridors. Notable projects: Nashua Elementary Sidewalks, Liberty Drive Sidewalks & Waterline, KCPS Parking Lot.



JOHN MCGEE, LLA, LEED AP (BD+C), SENIOR LANDSCAPE ARCHITECT 30 years of experience in downtown projects, urban infill, and high-rise developments, blending modern and classical aesthetics with functional needs to create welcoming outdoor spaces. Notable projects: Woodward Park Tot Lots Improvements, Porterville College – Parking Lot Landscape Design, Corridor Improvements Along H Street - SR 58 to SR 204.



TONY IGNACIO, LLA, LEED AP (BD+C), SENIOR LANDSCAPE ARCHITECT 22 years of experience shaping creative, functional, and sustainable environments across residential, parks and recreation, transit, education, and civic projects. Notable projects: Roeding Park Tot Lots, Al Radka Park Small Dog Park, Vinland Park Futsal & Pickleball Courts.

MISSOURI MUNICIPAL SERVICES

VSM/QK has provided services for the following Missouri government agencies:

- City of Camden, MO
- City of Gladstone, MO
- City of Grandview, MO (sub-contractor)
- City of Henrietta, MO
- City of Kansas City, MO
- City of Liberty, MO
- City of Parkville, MO
- City of Riverside, MO
- Platte County, MO
- Jackson County Sports Authority
- KC Streetcar Authority

ON-CALL EXPERIENCE

- City of Independence, MO
- City of Liberty, MO
- City of Parkville, MO
- City of Riverside, MO
- City of Smithville, MO
- City of Kansas City, MO (sub-contractor)
- City of Kansas City, MO 2015-2025 SLBE Open-End Stormwater Projects
- Kansas City Public Schools (sub-contractor)
- MoDOT
- Unified Government of Wyandotte County
- City of Atwater, CA
- City of Chowchilla, CA
- City of Delano, CA
- City of Exeter, CA
- City of Lemoore, CA
- City of Lindsay, CA
- City of Woodlake, CA



TRANSPORTATION ENGINEERING

VSM/QK is a trusted engineering partner with decades of combined experience delivering transportation and trail projects for cities, counties, and agencies. VSM brings over 15 years of trail design expertise, with strong relationships in the parks and recreation community, alongside deep capabilities in municipal infrastructure, utility coordination, and construction management. QK contributes more than 50 years of traffic engineering leadership across California and beyond, serving agencies such as Caltrans and local governments. Together, our multidisciplinary team provides innovative, reliable, and cost-effective solutions that enhance mobility, safety, and community connectivity.

MAJOR TRAIL AND SIDEWALK PROJECTS

- Blue River Trail – Martha Truman Connector, Kansas City, MO
3,325 linear feet and 10-foot-wide concrete trail.
- North Troost Trail, KC, MO
6,600 liner feet, 10-foot-wide ADA-compliant trail with culverts, a 40-foot pedestrian bridge, hydraulic analysis, and cost-saving alternatives.
- Rock Island Corridor Shared-Use Path, Jackson County, MO
Utility coordination for a 17.7-mile regional trail corridor stretching from Arrowhead/Kauffman Stadiums through Raytown into Lee’s Summit.
- Winn Road & Antioch Road Sidewalk & Intersection Improvements, Kansas City, MO
Two-phase project including new sidewalks, intersection upgrades, and floodplain permitting.
- NE 53rd Street Improvements, Kansas City, MO
Added new sidewalks, curb & gutter, storm sewer, and 70-linear-foot retaining wall with improved pedestrian access.

ADDITIONAL TRAILS AND SIDEWALK EXPERIENCE

- Highway 9 Connector Trail, Riverside, MO
- Line Creek Trail Pedestrian Bridge, Kansas City, MO
- Little Blue River Trail, Kansas City, MO (Culvert Design)
- Kansas City, MO Trails: Amity Trail, Second Creek Trail, Triangle Trail (Culvert Design)
- Blue River Pedestrian Bridge Trail, Kansas City, MO (Culvert Design)
- Platte City Trail, Platte City, MO
- Jackson County Trail Design, MO

TRANSPORTATION SERVICES

- Street Rehabilitation
- Streets and Roadways
- Culvert Design
- Trails and Sidewalks Design
- Stormwater and Drainage Design
- Utility Coordination
- Transportation Studies
- Specifications
- SWPPP and Erosion Control
- Construction Inspection/Management
- Signing, Striping, and Pavement Delineation
- Roundabout Design
- Safe Routes to School
- Traffic Engineering Design
- Bicycle & Pedestrian Facilities
- Quality Control Reviews



K-7 AND 75TH STREET MEDIAN IMPROVEMENTS
Permanent Concrete Median

PAST PERFORMANCE

K-7 HIGHWAY IMPROVEMENTS AT 43RD AND 75TH STREETS, SHAWNEE, KS

VSM/QK was the project manager for signal improvements at the intersection of K-7 Highway and 43rd Street. Improvements included adding a left-turn signal and signal timing, and replacing the existing mast arm with a longer arm of 60 feet. VSM/QK hired a structural engineer to design a new, non-standard pole base for the long mast arm. The project also included the installation of a permanent concrete median at the intersection of 75th and K-7 Highway and the addition of northbound and southbound left-turn arrows at 43rd and K-7.

NASHUA ELEMENTARY SIDEWALKS, KANSAS CITY, MO

Prime Time Construction, with VSM/QK as a sub, is providing design and construction services for the Nashua Elementary School sidewalk projects, providing sidewalks for the neighborhood east of the school. The project is a design-build format. There is 10,750 linear feet of new sidewalk that will be designed along the north side of NW. 114th Street between N. Oak and N. Woodland, the east side of N. Virginia Avenue between NE. Cookingham Drive and NE. 112th Terrace, the East side of N. Charlotte Ave between NE. Cookingham Dr and NE. 112th Terrace, and the west side of N. Oak between NE. 113th Street and NE. 114th Street. The project includes the design and construction of four-to-six-foot wide sidewalks, according to ADA compliance. VSM/QK performed the design of sidewalks, curbs, drainage, and ADA ramps and driveways.

LIBERTY DRIVE SIDEWALKS & WATERLINE, LIBERTY, MO

The City of Liberty, in partnership with MoDOT and VSM/QK, designed ADA-compliant sidewalk improvements along Liberty Drive to close a key gap between Midjay Drive and Red Oak Lane. This project completed nearly three miles of continuous sidewalk, connecting neighborhoods, three public schools, and nearby commercial areas with safe, accessible pedestrian routes. Proposed improvements included new ADA-compliant sidewalks on the south side of Liberty Drive and upgraded pedestrian crossings at Red Oak Lane, Oak Leaf Drive, Wilshire Boulevard, and Midjay Drive.

BLUE RIVER TRAIL – MARTHA TRUMAN CONNECTOR KANSAS CITY, MO

This segment starts at Minor Park and continues to Martha Truman Road. The 3325 linear feet and 10-foot-wide concrete trail runs along the east side of the Blue River. This trail provides an opportunity for the adjacent neighborhoods and citizens to access the Plaza, Kansas, and Grandview. This project supports the Clean Air Action Plan by providing a non-motorized option parallel to Blue River Road and Holmes Road, which has no bike/pedestrian facility. This project ties into a larger multi-state system (Blue River Greenway and Indian Creek Trails) which connects over 26 miles of trail, connecting employment and residential areas, neighborhood services and amenities, keeping existing mature trees, and promoting non-motorized transportation. Work is located in a FEMA floodplain.

LINE CREEK PEDESTRIAN BRIDGE HYDRAULIC ANALYSIS & FEMA NO-RISE CERTIFICATION, KANSAS CITY, MO

The Line Creek Pedestrian Bridge is 70 linear feet located south of 64th Street and Waukomis Drive in Kansas City, MO. VSM/QK performed a hydraulic analysis to determine changes in the 100-year flood plain due to bridge construction. Our team modified the Line Creek hydraulic model, various bridge profiles, and abutment configurations.

Documentation for the FEMA No-Rise Certificate was completed.

NORTH TROOST TRAIL, KANSAS CITY, MO

VSM/QK served as the civil design engineer for 6,600 linear feet of trail from North Troost Avenue connecting Englewood Park to the Northeast Vivion Road Trail. The 10-foot-wide trail was designed to meet ADA requirements and included culverts and a prefabricated 40-foot pedestrian bridge. VSM/QK performed a hydraulic analysis to size the culverts. Through the analysis, VSM/QK discovered cost-saving options by discarding one bridge crossing and using a smaller culvert. VSM/QK also created the Stormwater Pollution Prevention Plan (SWPPP) for this project. Five entrance plazas with neighborhood sidewalk connections were included.