



**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:

Hanson Professional Services Inc.

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St. Louis, MO 63101

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**

STRUCTURES WORK CATEGORY

2026 - 2029 ON-CALL LOCAL PUBLIC AGENCY (LPA) LIST

MISSOURI'S LOCAL PROGRAM FOR COMMUNITY DEVELOPMENT

PRIMARY CONTACT


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GENERAL EXPERIENCE OF FIRM

Structural on-call projects often require innovative solutions and quick turnaround times. Hanson has repeatedly demonstrated our ability to be responsive in on-time completion, while bringing creative solutions to our previous projects, including our on-call and other larger designs, such as the **City of Columbia's Conley Road over Hinkson Creek Bridge Replacement**. Geometric restraints required a portion of the superelevation transition to be located on the Conley Road Bridge, and the construction of skewed substructure units, resulting in each substructure unit having a varying and unique skew angle. The variety of our bridge design assignments provides us with know-how in the design of many different structural element types:

Superstructure Types

- Steel Plate Girders, Tub Girders, Wide Flange Beams
- Curved Steel Wide Flange Beams
- Curved Steel Plate Girders, Tub Girders
- Cast-In-Place Concrete Void Slabs
- Post-Tensioned Cast-In-Place Concrete Box Beams
- Post-Tensioned Prestressed Precast Concrete Beams
- Steel Tied Arch
- Steel Truss
- Prestressed Precast Concrete
 - » NU Girders
 - » Bulb-Tees
 - » Deck Bulb-Tees
 - » I-Beams
 - » Double Tee Girders
 - » Box Beams
 - » Spread Box Beams

Substructure Foundation Types

- Steel H-Piles
- Concrete Spread Footings
- Concrete Drilled Shafts
- Micropiles
- Steel Pipe Piles
- Concrete Auger-Cast Piles
- Prestressed Concrete Piles

Retaining Walls

- Standard & Custom MSE Walls
- Concrete Cantilever Retaining Walls
- Secant & Tangent Pile Walls
- Soldier Pile Walls

QUALITY. Maintaining quality in the design and preparation of construction plans under expedited design schedules is a key component of making an on-call project successful. Bridge work completed by Hanson typically **receives minimal review comments**. Reasonable bids from contractors were received and accepted on each of Hanson's past on-call design projects, and the work was completed by the contractor in a timely manner, indicating the quality of plans provided.

CREATIVITY. For the **East 245 over I-35 Girder Repair on-call project**, we provided **alternate repair details in the plans to repair a damaged plate girder** by either cutting out the damaged portions of the web and bottom flange and welding a replacement section in the void, or by using bolted bent plates to both the web and flange in the areas where the web/bottom flange were separated after heat straightening to provide strength/continuity between the web and bottom flange.

FAMILIARITY / CAPABILITY

Hanson has extensive experience in delivering design projects that are in compliance with federal laws. Most of our past Missouri and Illinois structural design projects have involved federal funding. Through the completion of our past projects, Hanson's bridge design team has demonstrated the qualities that lead to successful "on-call" projects. The project matrix below highlights some of the recent structural engineering contracts that involve federal funding compliance or funding, and the staff matrix on Page 3 summarizes proposed personnel's experience in delivering projects compliant with federal law.

PROJECT QUALIFICATIONS Structural Design Services

(1) F - Federal; L - Local; S - State

	Years' Experience with Client	Funding Source (1)	Plan Development	Cost Comparisons	Hydraulic Studies	Geotechnical	Surveying	Environmental	Right-of-Way	Load Ratings
MoDOT Route 59 Slide Repair/Tie Wall	25	F	●	●		●				
MoDOT Compton over I-44	25	F	●	●						
Boone County Poplar Grove Bridge	12	F	●	●	●	●	●	●		
Peoria County Truitt Road Bridge	54	F	●		●		●	●	●	
MoDOT I-170 over Natural Bridge/Route 141	25	S	●	●						
MoDOT MO-64 Bridge Replacement	25	F	●	●	●	●	●	●	●	●
MoDOT I-64 over Vandeventer Avenue	25	F	●	●		●	●		●	●
MoDOT Route 61 over Joachim Creek	25	F	●	●	●	●	●	●	●	
Peoria County Evans Mill Road Bridge	54	L	●	●	●	●	●	●	●	
St. Louis Loughborough Avenue Overpass	3	L	●	●		●	●		●	●
MoDOT East 245 Avenue over I-35	25	S	●	●						
Columbia (MO) Conley Road over Hinkson	3	L	●	●	●	●	●			

PROJECT INNOVATION. Our on-call experience includes **adding exterior stirrups to existing pier caps deficient in shear, allowing reuse using shotcrete for substructure repairs on I-170 over Route 180** and **using hydro-demolition to remove a portion of bridge deck** to replace a section of girder on **I-70 over Route 141**.

FLEXIBILITY. Hanson regularly **meets compressed schedules** and schedules that are reduced during the design process to **allow projects to be included on an earlier letting** such as **Route 366 over I-44, Route B over Locust Creek**, and the tie-back wall along **Route 76** for JSR0326.

"Hanson has consistently provided effective solutions for challenging projects. They are very responsive to requests and those unexpected issues that tend to surface during construction. Those are among the attributes that make Hanson's St. Louis office a pleasure to work with."
 - Stacy McMillan, Former Structural Liaison Engineer, Missouri Department of Transportation

PAST PERFORMANCE

Hanson staff has made significant and creative contributions to municipal, state, and federal facilities, successfully completing replacement and rehabilitation bridge designs while meeting accelerated schedules, implementing site specific innovative ideas, applying value added design services to reduce project costs, and completing our work in an economical way.



COMPTON AVENUE OVER I-44

City of St. Louis, MO

MoDOT: Bryan Hartnagel, 573-751-0267

- » Structural design services
- » Emergency on-call project involving concrete barrier rotation
- » Bridge deck replacement, replace existing hinged pins, abutment repairs, bearing replacement, new sign supports
- » **Completed work within five-week schedule from NTP to sealed plans**



ROUTE 59 SLIDE REPAIR/TIE WALL

McDonald County, MO

MoDOT: Scott McKee, 573-751-6312

- » Structural, geotechnical, roadway design services
- » Emergency repair for embankment slide
- » Expedited design of tie-back soldier pile and lagging retaining wall
- » Improvements included large precast lagging panels for retaining wall, roadway alignment, drainage, guardrail
- » **Met five-week project schedule**



POPLAR GROVE OVER KISHWAUKEE RIVER, Boone County, IL

Boone County: Justin Krohn, 815-544-2066

- » Structural, roadway, lighting preliminary, final design services
- » Bridge Condition Report, bridge hydraulic analysis, field surveys, environmental studies and reports, analysis of existing substructure
- » Final plans, specifications, estimates
- » **Hanson worked with County to keep stakeholders abreast of project scope and schedule**

- ✓ **Completed under on-call contract**
- ✓ **Federally funded project**



Existing Conditions

TRUITT ROAD BRIDGE

Peoria County, IL

Peoria County: Jeff Gilles, 309-697-6400

- » Structural, roadway design services for bridge rehabilitation
- » Superstructure consists of 21-inch band and 27-inch PPC deck beams, with waterproofing membrane system, HMA wearing surface
- » Substructure involved abutment backwall replacement, concrete repairs to pile bent piers
- » **Completed in six months to meet IDOT letting requirements**



Existing Conditions

MO-64 BRIDGE REPLACEMENT

Dallas & Laclede Counties, MO

MoDOT: Travis Stump, 417-895-7690

- » Structural, roadway, shared use path, sanitary sewer services
- » Five spans on 43-inch NU-girders supported on multi-column piers on drilled shafts
- » 6-inch force main replacement
- » **Selected foundations eliminated cofferdams, least impact on River**



I-64 OVER VANDEVENTER AVENUE

City of St. Louis MO

MoDOT: Heather Copeland, 314-453-5026

- » Structural, geotechnical, roadway conceptual, preliminary, final design
- » Eastbound bridge replacement, westbound rehabilitation
- » Scope includes public involvement, construction support, utility coordination, MOT, traffic analysis
- » **Project involved extensive public outreach and stakeholder coordination**

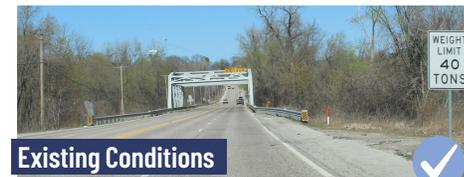


Route 141 Existing Conditions

I-170 OVER NATURAL BRIDGE/I-70 OVER ROUTE 141, St. Louis County, MO

MoDOT: Bryan Hartnagel, 573-751-0267

- » Structural design services for emergency repairs
- » **I-170 over Natural Bridge:** Expansion joints located at the skewed end bents for dual structure were replaced
- » **I-70 over Route 141:** Exterior girder struck by vehicle, damaging web; section of girder removed, replaced
- » **I-70 project – completed plans in 2-week design schedule**



Existing Conditions

ROUTE 61 OVER JOACHIM CREEK

Jefferson County, MO

MoDOT: Dennis Heckman, 573-751-4676

- » Structural, roadway, hydraulics, final design
- » Five-90-ft. spans of 35-inch NU-girders supported on large diameter driven pipe piles
- » Included slide repair north of Herky-Horine Road to Joachim Road
- » **Successfully achieved "no-rise" with twice the amount of water flow passing through bridge opening – significant challenge to design**

ACCESSIBILITY OF FIRM & STAFF

Our design team has worked with multiple municipal, county, and state personnel to complete many successful bridge design projects from our **three Missouri offices in St. Louis, St. Charles, and Kansas City.** Hanson's bridge design team is thoroughly trained in Missouri standard design and detailing. We have coordinated with owner design and construction personnel to work through many nonstandard designs, developing special details to address unique structural issues and conditions.

Responsiveness is a core value of our design teams. To us, accessibility means when our client calls, we respond immediately to address your needs. As we have proven in past projects, Hanson will be proactive during each project, identifying potential design issues, and offering solutions and recommendations. Hanson has the depth and breadth of personnel and resources to handle the issues that may arise on your projects and have demonstrated our capacity by successfully completing multiple on-call bridge projects concurrently with a consistently high level of quality.

TOOLS | TECHNOLOGY | STRATEGIES FOR PERFORMING WORK FROM A DISTANCE

- **Virtual monthly meetings**
- Utilizing collaboration software, such as **ProjectWise** and **ShareFile**
- **Online solutions:** Teams and Zoom for collaborative meetings, online polls, individual video calls, and project websites

QUALIFICATIONS OF PERSONNEL ASSIGNED

STAFF QUALIFICATIONS
Bridge Design Services

(1) F - Federal; L - Local

	Years of Experience	Funding (1)	Plan Development	Cost Comparisons	Hydraulic Studies	Geotechnical Work	Surveying	Environmental	Right-of-Way	Load Ratings
Howard Gotschall, PE, SE, Project Manager	26	F, L	●	●		●	●		●	●
Brad Cunningham, PE, Senior Bridge Engr.	27	F, L	●	●		●	●			●
Mike Mendenhall, PE, SE, Senior Bridge Engr.	23	F, L	●	●	●					●
Sam Griefzu, PE, Bridge Engr.	14	F	●	●		●				●
Brian Wozniak, PE, CFM, Hydraulics Engr.	34	F, L	●	●	●					
Kip Chepkoit, PhD, PE, Geotechnical Engr.	31	F, L	●	●		●				
Jennifer Sunley, Environmental Specialist	25	F, L		●				●		
Matt Schrader, PLS, Survey Lead	33	F, L		●			●		●	
Cindy Bushur-Hallam, JD, LLM, Land Acq.	32	F, L							●	
Cade Puzey, PE, Load Ratings	7	F, L	●	●	●					●
Sarah Cavanaugh, EIT, Bridge Designer	3	F	●	●		●			●	●

SOLUTION: RESPONSIVENESS

For the **Route 65 Bridges** in Springfield, Hanson's St. Louis office provided the design of seven bridge structures included in the widening of Route 65. Using complex sequencing, **Hanson's engineers worked around the clock and finished the structural and geotechnical design work in seven weeks and under budget.** The project won an *Engineering Excellence Award from ACEC of Missouri.*

Our senior staff can be utilized as sounding boards for new ideas — or to provide “lessons learned” information for those approaches and products with specific limitations. The key members of our project bridge engineering team include:

Howard Gotschall, PE, SE – Project Manager, brings more than 25 years of experience developing bridge projects in Missouri. He manages all of Hanson's Missouri bridge design contracts and has also led the bridge design of multiple federally and locally funded projects.

Brad Cunningham, PE – Senior Bridge Engineer, has more than 25 years of experience in Missouri bridge design and has been the design lead on all of Hanson's recent on-call bridge projects. Brad also holds the NBIS Team Leader certification.

Michael Mendenhall, PE, SE – Senior Bridge Engineer, has more than 20 years of bridge design experience, plan preparation, bridge inspection/evaluation, and construction administration. His experience includes municipal, county, and state agency work, and completing structural designs for contractors relating to construction of bridges.

Brian Wozniak, PE, CFM – Hydraulics Engineer, has an applicable 34 years of experience, including watershed modeling and master planning; floodplain modeling, sediment control plans, hydrologic and hydraulic modeling of rivers and watersheds, and CLOMR and LOMR analysis and applications.

Kip Chepkoit, PhD, PE – Geotechnical Engineer, offers more than 30 years of geotechnical experience and whose strength encompasses comprehensive capabilities for minimizing structural design costs through his geotechnical input.

Jennifer Sunley – Environmental/Natural Resources Manager, offers more than 25 years of experience in state and federal Clean Water Act compliance, National Environmental Policy Act (NEPA), natural resource inventories, coordinating and obtaining Section 404 permits, Section 401 Water Quality Certifications, and Section 402 Land Disturbance Permits.

Matt Schrader, PLS – Surveying Lead, brings more than 30 years of experience, including field surveys, the establishment of land corners, property lines, documentation of new right-of-way, and the writing of deeds and legal descriptions.

Cindy Bushur-Hallam, JD, LLM – Land Acquisition Manager, has successfully negotiated complex multi-million-dollar legal agreements with local, state, and federal government agencies. She is a licensed practicing Real Estate Attorney.

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LPA 2026-2029 On-Call List

Missouri's Local Program for Community Development

Hanson Professional Services Inc. is a national, employee-owned consulting firm that brings clients integrated transportation, civil, structural, geotechnical, hydraulic, and construction-phase engineering grounded in decades of highway and bridge work, including projects across the State of Missouri for every MoDOT district and the municipalities within them, supported by advanced 3D/BIM design, hydraulic and traffic modeling, and asset management tools that help agencies strengthen resilience and keep critical routes operating during extreme events.

Since 1954, our team has advanced complex corridor, bridge, and interchange projects using 3D and BIM-driven design, advanced hydraulic and traffic modeling, and asset management tools that help agencies understand risk, strengthen resilience, and keep critical routes open during extreme events.



Ridge Avenue Intersection - Rockford, IL



Poplar Grove Bridge Approach Intersection - Belvidere, IL

TRAFFIC ENGINEERING & TEAP

Hanson provides efficient, safe, and convenient solutions for the issues that impact transportation systems and those who are affected by the systems. We can also successfully integrate your travel and traffic needs into mixed-use and neotraditional designs. Our services include:

- Corridor Studies
- Intersection/ Interchange Studies
- Microsimulation Modeling
- Parking Studies and Capacity Analysis
- Pedestrian Studies and Facilities Design
- Policy Writing
- Prioritization Studies and Asset Management
- Road Dieting/ Lane Reduction
- Roundabout Analysis and Design
- Safety Studies
- Signal Coordination and Timing Plans
- Traffic Studies
- Traffic Impact, Operation, and Safety Studies
- Traffic Signal Design
- Transportation Planning and Travel Demand Modeling

Howard Gotschall, PE, SE
 Vice President
 314-942-5285
 hgotschall@hanson-inc.com



STRUCTURES

Hanson has built our bridge design reputation with MoDOT on providing quality design on time. Whether we are providing multi-discipline design services for a complete project and reporting to a District Project Manager or providing bridge design services and working closely with a District's roadway design team, we have consistently demonstrated that MoDOT can count on us to be accessible and responsive during both design and construction.

Hanson has the breadth and depth of resources and personnel to address all issues relating to bridge inspection, design, and construction:

- Conceptual Bridge Design
- Bridge Type Studies
- Preliminary Bridge Design
- Final Bridge Design
- Peer Review/Independent Analysis
- Alternate Designs for Bidding
- Bridge Inspections and Reports
- Hydraulic Studies and Scour Evaluation
- Geotechnical Investigations, Foundation, and Design Recommendations
- Retaining Wall Type Selection
- Construction Administration

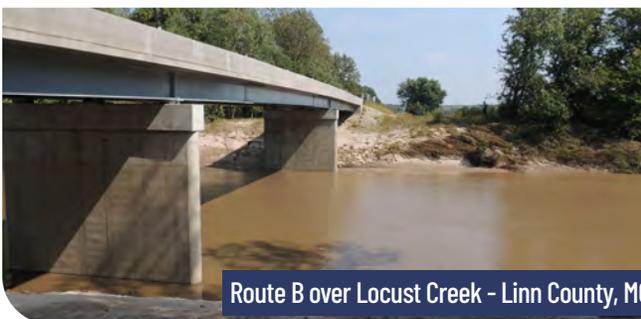
Hanson has completed a wide variety of bridge design assignments through contracts with multiple MoDOT Districts and the Bridge Office. Our bridge design services have included design for grade separations involving interstates, urban and rural roadways, and railroads, in addition to water crossings ranging from minor creeks to the Illinois, Mississippi, and Missouri Rivers. Hanson's bridge design team is focused on providing the very best in consultant design services.



Battlefield Road over Route 65 Interchange - Greene County, MO



Route D over Moreau River - Cole County, MO



Route B over Locust Creek - Linn County, MO



Route 100 over I-44 - Franklin County, MO

ROADWAY DESIGN

Hanson offers a wide array of transportation services to assist you in achieving a successful project. Since our company's inception in 1954, Hanson has been working on interstates, state routes, and bridge projects. With this experience, your project benefits from our expertise and knowledge, bringing a team that's prepared with innovative, efficient, and cost-effective solutions.

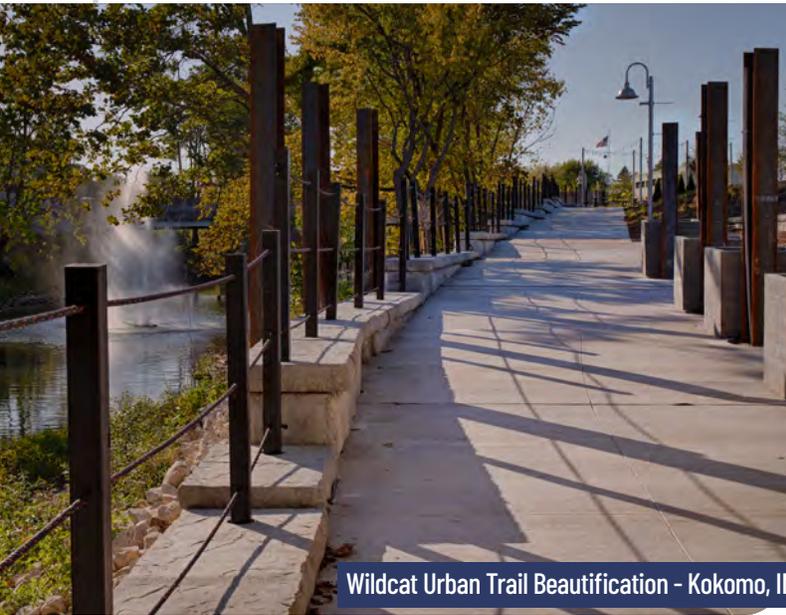
Hanson's DOT work focuses on these project types:

- ADA Sidewalk Improvements
- Bridges
- Interchanges
- Interstates
- Major Arterials
- Pavement Rehabilitation
- Slide Repairs

Your goals are important, and you need a consultant who will put you and your needs first. It's critical. It's necessary. And Hanson will be there to make your goals come to reality and will put the services you need at your fingertips:

- Construction Administration
- Design
- Document Management
- Environmental Services
- Geotechnical Services
- Intelligent Transportation Systems
- Permitting
- Planning
- Program Management
- Quality Programs
- Surveying
- Traffic Analysis
- Value Engineering
- Water Resources





Wildcat Urban Trail Beautification - Kokomo, IN

MULTIMODAL PLANNING/ SYSTEMS AND FACILITIES DESIGN

Leveraging decades of rail, port, industrial, and multimodal transportation experience, deep relationships with MoDOT and agency staff, and over 71 years of engineering and planning experience, Hanson works with port authorities, railroads, industries, and LPA's to plan, design, obtain funding, and construct multimodal projects. Hanson's technical expertise includes:

- Plan Reviews / "Cold eyes" Reviews
- Site Study & Evaluation
- Asset Inventory & Asset Management
- Facility Capacity Analysis / Improvements Feasibility Study
- Market Study
- Master Planning
- Site Planning / Conceptual Design
- Growth and Optimization Planning
- Facility / Rail Design and Optimization
- Engineering and Construction Documents
- Grant Assistance / Administration
- Material Handling / Transloading
- Marine / Dock / Port Design
- Class I, Shortline, and Industrial Rail Planning and Design
- Environmental Permitting / NEPA
- Civil & Structural

TRAILS & SIDEWALKS

Hanson offers a team of professionals with excellent qualifications, experience, and knowledge of the recreational facilities design process for multi-purpose trails, in addition to pedestrian paths and crossings. We have staff with extensive expertise in planning and design that supports safe transportation for pedestrian, bicycle, transit and vehicular travel. Our team available for Missouri local municipality projects includes project planners, public involvement facilitators, transportation and traffic, civil and site, structural, geotechnical, environmental and hydraulic engineers, in addition to land surveyors and construction observation staff. Our services include planning and design for:

- Bicycle/Bus Lanes
- Curb Bump-Outs
- Curb Ramp Reconstruction with Detectable Warning Surfaces
- Greenways
- Off-Road Bicycle and Pedestrian Trails
- On-Road Multi-Use Trails and Paths
- Pavement Striping for Crosswalks, Pedestrian Features and Other Markings
- Pedestrian Structures/Bridges Trail and Pedestrian Crossings (including HAWK Signals)



Multimodal Corridor Enhancement (MCORE) - Champaign, IL