



**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:

Hurst-Rosche, Inc.

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Firm Contact Name:

Jeremy Connor, PE, President

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Contact Email  
Address:

jconnor@hurst-rosche.com

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Firm's Mailing Address:

3675 W. Outer Road, Suite 205

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Arnold, Missouri 63010

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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**



Hurst-Rosche, Inc.

Jeremy Connor, PE  
President

December 12, 2025

Missouri's Local Program (LPA)  
MoDOT Central Office  
Ms. Ashley Buechter, PE  
Local Program Administrator

Re: Work Category - Structures

Dear Ms. Buechter:

Hurst-Rosche, Inc. has provided engineering services for more than 88 years and has specialized in transportation and bridge design since its founding. Our firm offers full-service engineering capabilities for structures spanning roadways, waterways, and railroads. With over 57 licensed professionals and support staff, Hurst-Rosche delivers bridge design services in a timely, cost-effective manner consistent with Missouri's Local Public Agencies (LPA) expectations for quality, safety, and innovation.

### GENERAL EXPERIENCE OF FIRM

Hurst-Rosche is experienced in meeting the design and construction standards of Missouri LPA and the U.S. Department of Transportation's Federal Highway Administration (FHWA). We routinely work with the Local Public Agency (LPA) program and are well-versed in requirements for the following funding and program types: BRO | TIP | TAP | STP | CMAQ | EWGCOG | TE | ADAAG | PROWAG.

Our relevant bridge design experience includes:

- Structural Analysis and Design
- Hydraulic studies and FEMA No-Rise certification
- Drainage Permitting
- Roadway and Right-of-Way Design
- Geotechnical Analysis and Design
- Utility Coordination and Survey Work
- Preliminary and Final Design Plans
- Special Job Provisions and Cost Comparisons

We provide complete in-house design services for bridges, streets, sidewalks, curbs, lighting, and stormwater systems. Our staff maintains working knowledge of Missouri's LPA, MoDOT, FHWA, MoDNR, and USACE standards and regulations to ensure compliance throughout all project phases.

### PAST PERFORMANCE

Hurst-Rosche has a strong record of delivering structural engineering projects on time, within budget, and to the highest professional standards. We have successfully completed projects involving retaining walls, bridges, hydraulic structures, and buildings for both public and private sector clients. These projects demonstrate our ability to address complex engineering challenges, maintain clear communication with stakeholders, and adapt to evolving project requirements.

Our past performance reflects consistent client satisfaction, supported by repeat business and long-standing partnerships. We emphasize quality assurance at every stage, from design development to construction oversight, ensuring that final outcomes meet both safety standards and client expectations. The firm's history of performance illustrates our ability to manage diverse project sizes and schedules, including fast-track assignments that required efficient resource allocation and accelerated design processes. This proven track record highlights our capacity to provide reliable structural engineering services and reinforces our reputation for delivering durable, cost-effective, and innovative solutions across a broad range of infrastructure projects.

Justin Goodwin, PE  
Vice President

Michael Emken, PE  
Vice President

3675 West Outer Road,  
Suite 205  
Arnold, MO 63010  
636.333.3351 (Office)  
217.532.3212 (Fax)  
[www.hurst-rosche.com](http://www.hurst-rosche.com)

### **Seven Sisters Avenue over Dry Fork Bridge Replacement, Montgomery County Highway Department, Hillsboro, IL**

This project involves the replacement of an existing structure with a new bridge consisting of multiple Precast Prestressed Concrete (PPC) deck beams. Each beam measures 21" in depth, 3' in width, and 46' in length (from back-to-back of abutments), and the bridge was constructed with a 20-degree skew. This federally funded project includes the removal of the existing structure, construction of the new PPC deck beam bridge, and installation of approximately 360 feet of approach roadway. Additionally, the project encompasses the completion of a Preliminary Bridge Design and Hydraulic Report (PBDHR).



Engineering services includes topographic surveying, geotechnical (soil) investigations, preparation of construction documents and necessary easements, and comprehensive construction management. Environmental coordination involves submitting a Phase I Environmental Survey Request and working in conjunction with the U.S. Army Corps of Engineers (USACE), Illinois Department of Natural Resources (IDNR), and Illinois Environmental Protection Agency (IEPA).

### **TR 371 North 6th Avenue over Coffeen Lake Bridge Replacement, Montgomery County Highway Department, Hillsboro, IL**

This project involved the complete removal and replacement of a deteriorated 5-span PPC deck beam bridge with concrete pile-supported piers and abutments. The replacement structure is a 118-foot, 3-span PPC deck beam bridge, 30 feet out-to-out, with no skew, supported by spill-thru abutments and concrete-encased steel pile bent piers. Located in Seismic Performance Zone 3, the bridge follows a straight horizontal alignment and spans Coffeen Lake, a resource for the adjacent power plant.



The scope included development of the Engineering System Report (ESR), hydrologic and hydraulic design for the Preliminary Bridge Design and Hydraulic Report (PBDHR), scour analysis, civil and structural design, and preparation of final roadway and bridge construction plans (PS&E). Unique hydraulic evaluations were required due to the lake crossing. Coordination was conducted with IDOT, IDNR, IEPA, and USACOE. Geotechnical work included soil borings, laboratory testing, and analysis to determine substructure support and scour parameters. Deliverables included the PBDHR, Abbreviated Bridge Condition Report, bridge rating, bridge design, shop drawing review, and PS&E submittal. The replacement was necessary due to the original bridge's age, structural deficiencies, and functional obsolescence.

### **IL 94, Henderson, Mercer, and Warren Counties**

The project involves three bridges along IL 94 spanning Fall Creek, Henderson Creek, and Camp Creek, each requiring various maintenance repairs. The scope of work included replacing expansion joints, repairing floor drains and scuppers, and replacing elastomeric bearings to restore the structural integrity and functionality of the bridges. As part of the project, three Bridge Condition Reports completed, two full reports and one abbreviated report covering each of the structures along IL 94. Based on these evaluations, detailed repair plans were prepared and submitted for each bridge, with the construction work conducted under separate contracts.

### **Routine and Special Bridge Inspections, Illinois Department of Transportation / Local Agencies, Montgomery County, IL**

Hurst-Rosche provided routine and special inspection services for over (40) bridge structures across Montgomery County, under the direction of IDOT and local townships. These inspections assessed structural integrity, channel conditions, waterway adequacy, and approach roadway alignment. Inspections include a wide range of structural types and materials such as prestressed concrete box beams, steel multi-B3qm / Girder Systems, Culverts (Concrete and Steel), and Truss Structures. The services also include load posting evaluation, channel and scour assessments and photographic documentation for agency records.

### **QUALIFICATIONS OF PERSONNEL**

Hurst-Rosche's bridge design team has the experience, technical skill, and management capacity to deliver projects efficiently and accurately. We strategically allocate resources based on project scope, maintaining schedule commitments without compromising quality.

We use advanced structural modeling, integrated design platforms, and QA/QC procedures to ensure efficiency and consistency. Our professionals include:

**Chase Connor, PE, SE, Structural Engineer** Mr. Connor has over 22 years of bridge design experience, which includes designing, inspections, preparing special provisions, load ratings and cost estimates for the following types of structures; multi-span steel wide flange bridges, multi-span steel plate girder bridges, steel railroad bridges, multi-span reinforced concrete box culverts, reinforced concrete slab bridges, multi-span precast prestressed concrete bridges and conventional retaining walls.

**John Caterino, PE, Structural Engineer** Mr. Caterino has over 8 years experience with structural inspections, structural design, and rehabilitation of existing structures. He has extensive knowledge of code requirements and design standards for structural design of public amenities such as accessible walkways, pedestrian bridges, and staircases. His work experience includes preparation of design calculations, structural analysis, preparing and reviewing contract drawings for a variety of structures, estimating quantities and costs for various structural projects as well as comparing cost-effective design solutions, QA/QC review of calculations and analysis, review and approval of shop drawings, and administering construction related projects.

**Zachary Thompson, PE, Structural Engineer** Mr. Thompson has over 10 years of experience in structural engineering. His diverse skills in structural analysis, modeling and related engineering software bring value to each project. He has extensive experience in application of physics, mechanics of materials and project management to solve structural challenges.

**Justin Goodwin, PE, Hydraulic Engineer** Mr. Goodwin has over 30 years experience in structural design for bridges, hydraulic analysis, highway engineering, site development, and inspection work. Mr. Goodwin has been involved with all aspects of the design process from initial inspection to final design and construction plan development. His experience has involved design work with steel, masonry, cast-in-place and pre-cast concrete, and timber.

**Mike Emken, PE, Geotechnical Engineer** Mr. Emken has 30 years' experience in geotechnical engineering. He has experience in all aspects of geotechnical and foundation engineering, including field investigations and inspections, laboratory testing and analysis related to bridge foundation recommendations. He is responsible for field boring operations, soil and materials testing, laboratory analyses, development of soils reports, and responsible for making foundation and construction recommendations for DOT structures and other related projects. He has directed numerous subsurface investigations for bridges, retaining walls, and has performed inspections for pile driving operations, and fill placement activities.

### FAMILIARITY/CAPABILITY

Hurst-Rosche has long represented federal and state agencies, counties, and municipalities throughout Missouri and Illinois. Our professionals are familiar with public-sector requirements and maintain close working relationships with regulatory agencies. We emphasize continuing education to ensure that our team stays current on new technologies, codes, and design standards. This dedication enables us to consistently meet project budgets, schedules, and quality expectations. Our personnel will be available immediately upon authorization to proceed and will remain fully committed through project completion.

### ACCESSIBILITY

Hurst-Rosche proposes providing the services requested through our Arnold branch office located at 3675 W. Outer Road, Suite 205, Arnold, Missouri. Our local presence allows us to respond quickly to project needs and maintain close communication with Missouri's Local Program Agencies. We pledge to meet all project deadlines and, whenever possible, submit deliverables in advance of scheduled dates.

It is our privilege to submit this response to your Letter of Interest and Company Brochure. We appreciate your consideration of our professional qualifications and look forward to the opportunity of serving the Missouri's Local Program Agencies. If you have any questions or require additional information, please contact our office.

Sincerely,

HURST-ROSCHE, INC.



Jeremy J. Connor, PE  
President

JJC:vsh

**ABOUT US:** Founded in 1937, Hurst-Rosche, Inc. is a full-service architecture and engineering firm providing planning, design, surveying, and construction management services to federal, state, municipal, and private clients. With over 88 years of experience and multiple regional offices, our team delivers comprehensive solutions from concept through completion with an emphasis on quality, integrity, and value.

## RESOURCES, RESPONSIVENESS, RELIABILITY

### DIFFERENTIATORS

Extensive In-House Services  
Single Firm-Multiple Location Model

### FEDERAL CERTIFICATIONS

Small Business - Self Certified  
SBA HUBZone Certified

### UEI

Arnold, MO - LZZBWKJ1NT77  
East St. Louis, IL - QTXAMSF5QLZ3  
Hillsboro, IL - CL37UFUHCWU5  
Marion, IL - FM15VSSHWBZ5  
Nashville, TN - H8S8W82A8LH3

### CAGE 3XML5

### NAIC CODES

541330 - Engineering Services (Civil, Structural, Electrical, Geotechnical)  
541340 - Drafting Services  
541370 - Surveying and Mapping (Except Geophysical) Services  
541620 - Environmental Consulting Services  
237 - Heavy and Civil Engineering Construction

### CORE COMPETENCES

#### STRUCTURES



#### ROADWAY



#### SURVEYING



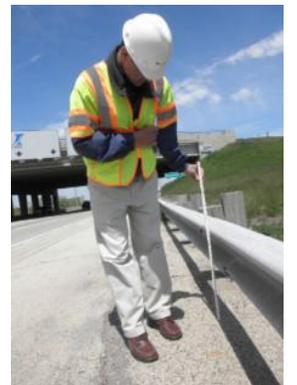
#### TRAFFIC



#### TRAILS and SIDEWALKS



#### CONSTRUCTION



**IDOT - District 8**

**PTB 203/044**

**Various Reviews for Permit Projects**

These tasks include engineering services required for the preparation, issuance, and construction inspection of various permits for all non-utility work in District Eight. These permits may include access permits, oversize and overweight permits, traffic control permits, parade/event permits, landscaping permits, license plate reader permits, and other miscellaneous permits. Researching microfilm for archived plans and right-of-way, review of utility permits, construction plans, and other work as directed by the department. Hurst-Rosche may also be required to develop and/or review documents such as traffic studies, intersection design studies, drainage studies, and prepare construction plans as part of the permit process or other department-led processes.

**IDOT - District 4**

**PTB 206/030**

**IL 9/FAP 685, McDonough County, IL**

**I-155/FAI 155, Tazewell County, IL**

Project consists of Phase II engineering services for the preparation plans, specifications, and estimates (PS&E) for a total of 8 structures across 2 counties.

**IDOT - District 5**

**PTB 198/021**

**FAP 708 (US 51 BUS), Clinton, DeWitt County, IL**

This project consists of Phase I of a drainage study that looks at the effects of roadway improvements to determine if the existing drainage is adequate; subsurface utility engineering; geometrics studies; access management study; traffic signals report; traffic engineering study; preparing for exhibits for public involvement and a project report. This work may include data collection, development of alignment alternatives, cost estimates, traffic management analysis, traffic management plan, accident analysis, quantity computation, and other related work items required to produce a project report.

**IDOT - District 6**

**PTB 212/031**

**Construction Inspections**

These tasks include Phase III construction inspections assisting the Resident Engineer in the construction inspection, supervision, engineering layout, on-site inspection, maintenance of records and documentation, on-site material testing, and/or quality assurance testing for various projects throughout District 6.

**OFFICE LOCATIONS**

- Arnold, MO
- East St. Louis, IL
- Hillsboro, IL
- Marion, IL
- Springfield, IL
- Nashville, TN

**QUALIFIED CATEGORIES**

- Highways** - Freeway, Road, Streets
- Structures** - Highway; Simple and Typical
- Special Studies** - Feasibility, Safety, Traffic Studies, Location Drainage
- Special Plans** - Traffic Signals
- Location Design Studies** - Rehabilitation/ Major/Rehabilitation, New Construction/Major Construction
- Hydraulic Reports** - Pump Stations, Waterways; Typical, Waterways: Complex
- Geotechnical Services** - Subsurface Explorations, General Geotechnical Services, Structure Geotechnical Reports (SGR)
- Special Services** - Surveying, Sanitary, Construction Inspection
- Bridge Inspection**

**STATE PRE-QUALIFICATIONS**

**Department of Transportation**  
Missouri, Illinois, Tennessee (Unlimited)

**State of Missouri, Office of Administration**  
Architecture, MEP, Structural, and Civil Engineering

**KEY CLIENTS**



**POINT OF CONTACT**

Jeremy J. Connor, PE, President  
jconnor@hurst-rosche.com

o: 636.333.3351  
c: 618.407.4497  
www.hurst-rosche.com