

Missouri Department of Transportation
Kevin Keith, Director

573.751.2551
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1.888.ASK MODOT (275.6636)

January 27, 2012

Dear Consultant:

The Missouri Department of Transportation, in partnership with Union Pacific Railroad, has received a grant from the Federal Railroad Administration for the construction of a second railroad bridge over the Osage River near Osage City, MO. Union Pacific Railroad is requesting the services of consulting engineering firms to perform the described professional services for the two attached solicitations. The DBE goal for both solicitations has been set at 0%.

If your firm would like to be considered for these consulting services, you may contact the Union Pacific Railroad. The contact person for these solicitations is:

Jay McAndrew
Director Strategic Sourcing - Engineering
Union Pacific Railroad
1400 Douglas St Stop 0750
Omaha, NE 68179
Phone: (402) 544-7267
Email: JJMCANDR@up.com

The solicitation process will be conducted by the Union Pacific Railroad using their approved process. The due date for proposals is February 10, 2012. This information should be considered informational only.

I can be contacted at (573) 751-7690 or by email at troy.hughes@modot.mo.gov.

Sincerely,

Troy Hughes
High Speed Rail Project Manager

Attachments



OSAGE BRIDGE SECOND MAINLINE CONSTRUCTION MANAGEMENT RFP

PROJECT DESCRIPTION:

Generally, the project consists of the following: Bridge construction, Track Construction, Track roadbed, and Drainage for a UPRR second main line over the Osage River. Funding for the Project comes from a combination of federal and Union Pacific funds. The public funding includes American Recovery and Reinvestment Act (ARRA) stimulus funds.

QUALIFICATIONS:

- 1. Qualifications of the Firm** – This section of the Proposal should explain the ability of Consultant to satisfactorily perform the required work as a result of experience in performing Construction Management (CM) services on heavy civil construction type projects, experience and knowledge working on federally funded projects including ARRA funding, any previous experience working with Missouri Department of Transportation (MoDOT), and knowledge of UPRR Design & Construction Standards.

- 2. Proposed Staffing** – This section should identify key personnel to be assigned and their qualifications and experience. At a minimum the CM Project manager shall be qualified to provide bridge inspection services as well as project management duties. This should include: education, experience, and professional credentials of “key” project staff including all projected full-time project employees. Acknowledgement that no person designated as ‘key’ personnel shall be removed or replaced without the prior written concurrence of UP.
 - a. Identify “key” personnel proposed to perform the work in the specified tasks. Include the person's name, current location, and proposed position for this project, current assignment, level of commitment to that assignment, and availability for this assignment. This shall include any work that is to be performed by a sub-consultant and their qualifications.

- 3. Work Approach** - The Consultant shall provide a narrative with sufficient detail that addresses the Scope of Services for this Project and that demonstrates complete understanding of UP's needs and requirements. This should include a general approach for completing the activities specified in the Scope of Services. Provide a Staffing Plan showing proposed staffing levels for the duration of the construction and by task.

- 4. Cost Proposal** – The cost proposal shall include the following:
 - a. Provide a Schedule of Hourly Billing Rates for any and all positions in your construction management plan by title. Rate should be inclusive of

overhead and profit mark-up including the use of small SUV type vehicle or Pick-up Truck.

- b. Reimbursable expenses shall be paid at actual cost with no mark-up. Reimbursable cost to include, but not limited to the following: printing, mailings, and miscellaneous project related items.

5. SELECTION CRITERIA

The basis for selection includes, but is not limited to: price, experience of the Project Manager and other key personnel to be assigned, proposed staffing plan, knowledge of ARRA reporting requirements, experience working with Union Pacific, and demonstrated competence in the services to be provided.

Scope of Services

Engineering field verification functions on the Osage Bridge Project include, but are not limited to, the following:

1. Field Verification of Supplies and Services

Full Time field verification of all material, labor, and subcontracting services provided.

- Verify Material Utilized on a Daily Basis. All material used on the project will be documented on a daily basis to include the following:
 - Ballast used on project including tracking car numbers
 - Rail and OTM delivered to site
 - Concrete ties delivered to site
 - Concrete crossing pads
 - All Subcontractor provided material i.e. bridge spans, asphalt, pipe, culverts, rebar, sub-ballast
- Verify Subcontractor Activities on a Daily Basis. All subcontractor activities will be documented on a daily basis to include the following:
 - Review of contractors Daily Work Reports (DWRs)
 - Collect Contractors' daily headcounts and man-hours
 - Collect, document, and maintain in the project file all employee and DBE information to comply with ARRA reporting requirements
 - Submit certified payrolls to MoDOT on a weekly basis and maintain copies in the project files
 - Submit ARRA documentation to MoDOT on a monthly basis and maintain copies in the project files
- Collect and Verify UPRR forces Utilized on a Daily Basis – All UPRR force account labor will be documented on a daily basis to provide the information required by ARRA reporting to include:
 - Number of UPRR employees on site each day
 - Number of hours worked and payroll information to comply with ARRA reporting

2. Invoice Review and Verification

- Monthly consultant will complete review of UPRR invoices to MoDOT to insure accuracy and compliance with the funding agreement to include:
 - Provide quality assurance review of contractors' CAS invoices for accuracy and to verify supporting documentation accompanies invoice
 - Track spending being charged to project work orders/verify accuracy
 - Coordinate with UPRR headquartered employees to ensure accuracy of invoices
 - Review draft invoices prior to submittal to MoDOT to verify accuracy and applicable supporting documentation is provided
 - Investigate/draft responses to charges that are disallowed by MoDOT

3. Assessment of Work Status

- Track Project schedule and budget status to include:
 - Track project schedule compliance
 - Identify critical milestones and work activities
 - Monitor compliance with schedule and prepare status reports as requested
 - Track project budget compliance and provide real-time cost tracking
 - Overall financial project tracking/comparison to estimated budget
 - Participate in monthly meetings as required
 - Track subcontractor and DBE budget compliance and payment status
 - Prepare supportive material for Section 1512 report in compliance with ARRA

4. Project Administrative Activities

- Attend coordination meetings with MoDOT or their representatives
- Monitor subcontractors and others to ensure that employees have proper railroad training and security requirements completed, including E-Rail Safe verification
- Assist with the verification and tracking of project documentation in accordance with the UPRR Quality Management Plan (QMP)
- Coordinate with MoDOT or representative to ensure all information is retrieved to comply with ARRA requirements and 49 U.S.C. 24405
- Verify that subcontractors complete paperwork to comply with ARRA requirements
- Ensure document control through UPRR systems.

5. Quality Management Plan Support

- Support UPRR staff with day to day administration of QMP activities and documentation
- Coordinate with UPRR home office with maintenance of quality records and documentation

6. Quality Assurance Testing

- UPRR contractors and vendors have the primary responsibility for quality control testing for the project
- Consultant will assist UPRR with the review of contractor and vendor compliance with quality control activities and documentation
- Consultant will perform periodic quality assurance testing of various types of work i.e. soil and aggregate densities, concrete and asphalt testing, construction and placement of materials listed above

7. Other Information

- Adjustments to the scope of work may be made as project progresses dependent on UPRR needs
- Consultant will perform duties under the direction of the UPRR project manager

PROPOSED LABOR CLASSIFICATIONS

Please Provide a Rate with vehicle and without vehicle.

Description	UOM	Estimated Contract Qty	Rate
Labor – Project Manager – Standard Professional Labor	HR	4000	
Labor – Field Manager 1 – Administrative	HR	4000	
Labor – Grading Inspector – Standard Professional Labor	HR	2000*	
Reimbursable Expenses – Contractor’s Actual Cost – No Markup	RLS	-	
Per Diem – Allowance Per Person For Meals Only	DA	-	
Lodging	RLS	-	
Subcontract Work – Contractor’s Actual Cost – No Markup	RLS	-	

*Determination will be made if grading inspector is needed. Likely will be on an on-call or “as needed” type basis.

Request for Proposal for Professional Engineering Services

UPRR Second Mainline Bridge 116.89 over the Osage River Jefferson City Subdivision Near Osage City, MO Adjacent to Bridge 117.00

Project Description:

In 2012, UPRR will begin construction on a second mainline bridge adjacent to existing Bridge 117.00 on the Jefferson City Subdivision. The existing bridge is approximately 1163' in length and is a multiple span through plate girder bridge with one through truss span and a deck plate girder span at each end. The bridge crosses the Osage River near its mouth where it converges with the Missouri River.

The proposed parallel bridge will be approximately 1232' in length and will consist of four 156-foot deck plate girder ballast deck (DGPBD) spans, two 158.5-foot DPGBD spans, one 81.5-foot DPGBD span, one 105-foot through plate girder span, and two steel beam spans, 68-foot and 35-foot in length. Two steel beam spans will also be added to the west end of the existing mainline bridge in order to meet a "no-rise" hydraulic condition. The proposed work also includes new track construction to provide a second mainline track from MP 116.13 to 117.38.

UPRR has received federal funding (ARRA) and will be completing this project according to federal funding requirements as stated in UPRR's Construction Agreement with Missouri Department of Transportation (MoDOT) dated August 29, 2011.

Qualifications:

- 6. Qualifications of the Firm** – This section of the Proposal should explain the ability of Consultant to satisfactorily perform the required work as a result of experience in performing large river projects including the construction of drilled shafts, the erection of large steel spans, and coordination with regulatory agencies such as the Coast Guard and Corps of Engineers. Consultants should also demonstrate knowledge of UPRR Design & Construction Standards.
- 7. Proposed Staffing** – This section should identify key personnel to be assigned and their qualifications and experience. This should include: education, experience, and professional credentials of "key" project staff including all projected full-time project employees. Acknowledgement that no person designated as "key" personnel shall be removed or replaced without the prior written concurrence of UP.
- 8. Identify "key" personnel** proposed to perform the work in the specified tasks. Include the person's name, current location, and proposed position for this project, current

assignment, level of commitment to that assignment, and availability for this assignment.

9. Work Approach - The Consultant shall provide a narrative with sufficient detail that addresses the Scope of Services for this Project and that demonstrates complete understanding of UPRR's needs and requirements. This should include a general approach for completing the activities specified in the Scope of Services. Provide a Staffing Plan showing proposed staffing levels for the duration of the construction and by task.

10. Cost Proposal – The cost proposal shall include the following:

- c. Provide a Schedule of Hourly Billing Rates for any and all positions in your construction management plan by title. Rate should be inclusive of overhead and profit mark-up including the use of small SUV type vehicle or Pick-up Truck.
- d. Reimbursable expenses shall be paid at actual cost with no mark-up. Reimbursable cost to include, but not limited to the following: printing, mailings, and miscellaneous project related items.

11. SELECTION CRITERIA

The basis for selection includes, but is not limited to: price, experience of the Project Manager and other key personnel to be assigned, proposed staffing plan, experience working with Union Pacific, and demonstrated competence in the services to be provided.

Scope of Work:

The scope of work for this project shall include:

I. Project Management

Plan, organize, control, and monitor project team activities. Manage service activities and deliverables to UPRR. Implement a work plan specifically developed for the completion of this Project. Control of project records, report, calculations, technical data and project documentation, including telephone memoranda, correspondence and photo documentation, should be detailed in the project specific project guide. All materials will be maintained by consultant in a central location.

II. Complete Contractor Submittal Reviews including the following:

- 1. Review material submittals.
- 2. Review shop drawings.
- 3. Review temporary shoring.
- 4. Review construction procedures.
- 5. Review contractor qualifications.

6. Provide UPRR review comments for each submittal.
7. Provide recommendations to UPRR to approve, approve as redlined or require re--submittal of each submittal.

Please assume that the following efforts will be required to complete the Contractor Submittal Review tasks noted above:

- Four shop drawing reviews are required:
 - Deck Plate Girder spans.
 - Through Plate Girder spans.
 - Steel Beam spans.
 - Precast concrete caps and wings
- Material specification submittal reviews are anticipated for the following:
 - Concrete Mix designs
 - Drilled Shafts
 - Cast-in-Place
 - Precast
 - Culverts
 - Track and OTM
 - Ties
 - Subballast
 - Seeding
 - Rebar
 - Structural Steel
 - Misc. Steel
 - Drilled Shaft Casing
- Qualification submittal reviews are anticipated for the following:
 - Drilled Shafts
 - Steel Fabricator
 - Steel Erector
 - Concrete Precaster
 - Welders
- Procedure submittals are anticipated for the following:
 - Drilled Shafts
 - USCG Erection Plan
- Two temporary shoring design reviews are included; one for each end of the existing bridge.

Task Deliverables include:

- Reviewed all Contractor submittals.
- Recommendations to UPRR for response back to Contractor.

UPRR will:

- Provide consultant with contractor submittals.
- Formally respond to the contractor for each submittal.

III. Construction Site Visits:

- Visit construction site monthly throughout the duration of the project.
- Coordinate time of visit and meet with UPRR's Construction Management team to review any questions and outstanding RFI's regarding the design of the project and environmental requirements.
- Follow all of UPRR's Safety requirements while on site.
- Photo document construction activities as they relate to the design and environmental aspects of the project.
- Report to UPRR's Project Manager any concerns observed during the site visit.
- Prepare and submit site visit report for each site visit.

Please assume that the following efforts will be required to complete the Construction Site Visit tasks noted above:

- Consultant Project manager or designee will be doing the site visits.
- Consultant role is to observe only; no inspection or testing is included.
- Consultant will only provide recommended direction or actions to UPRR's Project Manager or his designee.
- The site visits will include a full working day on site.
- The site visits will start March, 2012 and continue through December of 2013 for a total of 22 site visits.
- Site visit reports will be submitted within one week of the site visit.

Task Deliverables include:

- Field notes
- Photo log
- Site visit report
 - Report will include:
 - Activities observed
 - Any deficiencies observed

UPRR will:

- Provide access to construction site
- Provide on track safety.

IV. Fabrication Site Visits:

- Visit fabrication shops prior to shipment of items to construction site.
- Follow fabricator's, UPRR's and Consultant's safety requirements during site visits.
- Observe fabricated material to verify fabrication was done in conformance with the construction documents and approved shop drawings.
- Photo document fabricated material.

- Review material certification, testing documentation and inspection documentation to verify fabrication has been in conformance to the construction documents and approved shop drawings.
- Develop fabrication shop visit report.

Project Deliverables:

- Consultant's project manager or designee will perform site visits.
- An average of one day at the fabrication site has been included.
- Consultant will only provide recommended direction or actions to UPRR's Project Manager or his designee.
- Prepare and submit site visit report for each site visit.
- Five steel fabrication visits will be done.
- Two precast concrete fabrication visits will be done for the precast concrete units.
- Site visit reports will be submitted within one week of the site visit.

Information Provided by UPRR:

- Provide contact information for fabricators.
- Notify fabricators of Consultant's role in the fabrication observation and inspection.

Schedule

The project schedule requires the project to start in early March, 2012 so that all construction can be completed by the end of 2013.