

# ROAD COMMISSION FOR IONIA COUNTY

170 E. Riverside Drive • P.O. Box 76 • Ionia, Michigan 48846 • Phone (616) 527-1700 • Fax (616) 527-8848

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Managing Director

WAYNE A. SCHOONOVER, P.E.  
County Highway Engineer

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February 8, 2010

## **REQUEST FOR QUALIFICATIONS FOR DESIGN ENGINEERING, BID & CONSTRUCTION SERVICES**

### **Emergency Repairs of: SN 4039 – Whites Bridge, Whites Bridge Rd over Flat River Section 7, T7N, R8W, Keene Township, Ionia County**

The Ionia County Road Commission (ICRC) is seeking an Architect / Engineer (A/E) team to provide a design, full emergency repair bid documents and construction oversight responsibilities for the emergency repairs of the existing Whites Bridge, a historic timber covered bridge. The A/E team must include: a qualified historic architect under 36 CFR Part 61, on the Michigan State Historic Preservation Office “Technical Preservation Consultant List” and familiar with the Secretary of the Interior’s Standards for Rehabilitation; and a professional structural engineer registered in the State of Michigan with specific experience in historic timber frame construction and engineering. The scope of the project shall include all site, architectural and historical construction documentation including specifications, period of performance and construction cost estimates.

The original timber single span structure, built in 1867 is a Brown through-truss design with a gable roof. The truss members and dimensional lumber are sawed heavy timber secured with timber joinery and bolts at connections on the “X” bracings. Rough pine boards sheet over the trusses and are fastened with hand cut nails. The abutments are made of local fieldstone with repairs made in fall of 1995. The bridge has a structure length of 118’-10” feet (span of 116’-6” feet) and an outside width of 18’ feet (curb to curb width of 14’ feet). Average Daily Traffic in 2009 was 149. The bridge is currently posted at 3 tons.

This bridge is on the Michigan Historic Bridge list.

At a minimum the following items must be considered and included in the scope of work:

1. The consultant will produce a set of design / bid/ construction documents for “Emergency Repairs” and an independent engineer’s estimate for the project that are in compliance with the Secretary of the Interior’s Standards for Rehabilitation. The A/E firm’s services shall include the following:
  - a. Survey of the existing conditions.
  - b. Report of the existing structure and potential solution.
  - c. Complete construction drawings and specifications.
  - d. Complete construction cost estimate.

- e. Complete product cuts, equipment / or material cuts.
- f. Minimum Bridge Emergency Repairs List set: provide design documents that repair the damaged Brown truss, interior damaged bridge components and exterior rough pine board. Project material, workmanship and fabrication shall match existing historic timber systems and traditional methods of construction and repair of timber structures as closely as practical while still meeting code requirements for timber construction and satisfying the load rating of the bridge.
- g. The following shall be submitted as a minimum for Final Design:
  - i. One (1) complete set of PE and RA signed and sealed plans, printed on 4 mil Mylar.
  - ii. Two (2) complete sets of PE and RA signed and sealed specifications, printed double-sided on 20 lb. 8 ½" x 11" white paper. Include cover sheet and table of contents. ) Table of Contents and all sections shall start on front side of paper, with blank pages inserted at end of odd-page-length sections as needed.) One (1) Bound and one (1) unbound set.
  - iii. On CD-ROM: One (1) complete set of original MSWord files (version 2007 or later) used to create specifications.
  - iv. On CD-ROM: One (1) complete set of original AutoCAD files (version 2008 or later) with read-write capabilities used to create the plans. Drawings shall be produced with the intent to remain legible when plotted out at half-size prints.
  - v. On separate CD-ROM than containing MSWord or AutoCAD files: One (1) complete set of printable Adobe PDF files assembled documents. Specifications shall be on one single PDF file that will print complete booklet double-sided, including cover and table of contents. (Table of contents and all sections shall start on front side of paper, with blank pages inserted at end of odd-page-length sections as needed.)
- 2. The consultant will assist in the review of the received Bids for Emergency Repairs.
- 3. The consultant will provide Construction Engineering and Architectural Services and shall include at the minimum the following:
  - a. Construction staking – utilize existing level control to monitor and report both the east side and west side lower chord elevations before, during and after the emergency repairs.
  - b. Inspection, testing, and pay estimates at intervals appropriate to the construction activities taking place, punch list and final inspections.
  - c. Construction Engineering – shop drawing review and additional as-needed services
  - d. As-Built / record drawings
  - e. Submittal of As-Built CAD files in AutoCAD DWG file format on CD-ROM to the ICRC with read-write capabilities for documentation.
  - f. The structure shall be inspected and load rated after repairs are completed to insure continued existing load rating. The bridge inspection will be photographed and digital pictures provided. The inspection shall be by qualified personnel who have completed the NHI Safety Inspection of In-Service Bridges course and meet the qualifications for Team Leader as defined in 23CFR Part 650. Copies of the certification are to be included with the report.

Any proposed cost increases shall be approved by the Road Commission before the costs are incurred.

Sealed qualifications will be received until 2 p.m. on Friday, February 26, 2010 at 170 E. Riverside Drive, P.O. Box 76, Ionia, Michigan, 48846. Telephone: (616) 527-1700. Faxed qualifications will not be accepted.

Professional liability insurance is required.

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Copies of the most recent 1717 A Form and bridge inspection are attached for your reference. For additional information, please contact Wayne A. Schoonover, P.E., County Highway Engineer, by phone at (616) 527-1700, or by email at [wayne@ioniacountyroads.org](mailto:wayne@ioniacountyroads.org).