

**CITY OF DAYTON  
WEBSTER STREET  
BRIDGE REPLACEMENT  
REQUEST FOR PROPOSALS**

**PROJECT IDENTIFICATION:**

Replacement of Bridge # MOT-Webster Bridge (SFN 5760992)  
Webster Street over the Mad River in the City of Dayton,  
Montgomery County, Ohio.  
Constructed in 1916, Rehabilitated in 1960

**PURPOSE AND NEED:**

Replacement of a structurally deficient bridge and the associated roadway work on the Webster Street Bridge over the Mad River.

**PROJECT DESCRIPTION:**

This project involves the design of a replacement structure for the Webster Street Bridge over the Mad River and design of sufficient roadway to accommodate the replacement. Project limits will be from Monument Avenue to Detrick Street. The proposed horizontal and vertical alignment will follow the existing Webster Street alignment.

The scope of work will include a preliminary engineering study which will generate a minimum of three conceptual bridge designs with associated cost. Upon review of the preliminary concepts, the City will select one of the bridge designs to proceed into the environmental and detailed plan development phase of the project.

The consultant will be required to complete the Categorical Exclusion document for the project. The consultant will provide necessary design information and will complete necessary environmental studies/reviews (as authorized) for completion of the environmental document.

The consultant will coordinate all environmental studies and reviews with the ODOT District 7 Environmental. The following environmental studies may be required for this bridge replacement project. The consultant shall be prequalified by ODOT to perform all anticipated tasks requiring prequalification.

1. Environmental Site Assessment – The consultant shall perform an Environmental Site Assessment screening. A Phase I Environmental Site Assessment shall be included in the contract as an “if authorized” item.
2. Cultural Resources – This bridge has been determined eligible for the National Register of Historic Places. In the event rehabilitation of the bridge is determined to not be feasible and prudent, the consultant shall undertake studies and actions necessary for the Section 106 and 4(f) coordination to allow for the replacement of the bridge, including
  - Development of the Purpose & Need Statement and Analysis of Alternatives.
  - Adequate public involvement to identify and inform Section 106 consulting parties.

- Preparation of the Documentation for Consultation.
  - Participation in the consultation meeting with the City of Dayton, OHPO, FHWA, ODOT, and other identified Section 106 Consulting Parties.
  - Preparation of the Section 4 (f) Evaluation as required under the *Programmatic Agreement for Applicability Determination and Programmatic Section 4(f)* and consistent with current ODOT requirements.
  - Preparation of the Historic American Engineering Record (or similar permanent record, based on consultation).
3. The consultant shall prepare a Phase I cultural resources report, consistent with the current ODOT Cultural Resources Manual. A Cultural Resource Phase II shall be included in the contract as an “if authorized” item.
  4. Recreational Section 4(f) coordination package shall be prepared. The Section 4(f) coordination for the affected segments of the Great Miami River Recreation Trail is expected to require development of a detour and coordination materials to allow for a finding of “no use” by ODOT/FHWA. A formal Recreational 4(f) evaluation is not anticipated.
  5. Ecological Resources – The consultant shall prepare Ecological Level One coordination package, consistent with current ODOT Ecological Resource Manual. It is anticipated that the project will be processed under ODOT’s Memorandum of Agreement. This will be included in the contract as an “if authorized” item. If an Ecological Level Two Survey (2010 Guidelines), Mussel Survey, or other survey beyond the initial coordination package is required, the consultant will be required to perform this work. This will also be included in the contract as an “if authorized” item. Note – a mussel survey, if required, must be undertaken by a malacologist permitted through the USFWS.
  6. Floodplain Permit – The project is located within a designated special flood hazard area and the consultant will be required to coordinate the project with the local flood plain administrator to obtain a flood plain permit.
  7. Public Involvement – Coordination with the local historic society and any local interest groups will be required. The consultant will be required to send letters to the adjacent property owners to make them aware of the bridge replacement project. Any maintenance of traffic issues will need to be published in the local media and communicated to local schools and emergency services prior to construction. The City will notify the local media of the project. A public involvement meeting shall be included in the contract.
  8. Asbestos Inspection – An asbestos inspection of the bridge will be performed by a Certified Asbestos Hazard Evaluation Specialist, and an OEPA Notification of Demolition and Renovation form will be prepared.
  9. Nationwide Permit – The project is expected to proceed under the Nationwide Permit Program. The consultant shall undertake all necessary waterway/wetland permitting, including preparation of a Pre-Construction Notification to the Army Corps of Engineers, if required. Note – For local let projects, waterway coordination occurs directly with the agencies, not through ODOT Central Office.
  10. NPDES Permit – If the project causes 1 acre or more of earth-disturbing activities, the consultant will prepare a Notice of Intent and submit it to the OEPA so that an NPDES permit can be obtained. This will also require the preparation of a Storm Water Pollution Prevention Plan.

Detail plans shall in general be in the Ohio Department of Transportation's standard format (summary and subsummary quantity plan sheets are not required). The design will be governed by ODOT's Construction and Material Specifications latest edition, AASHTO's Standard Specifications for Standard Highway Bridges 17th Edition and the subsequent Interim Specifications, ODOT's Supplemental Specifications, ODOT's Standard Drawings, and City of Dayton Construction and Material Specifications. Project construction documents shall be prepared in English units. The consultant will also provide a design that meets the requirements of the Miami Conservancy District, including any hydraulic surveys necessary to satisfy their requirements. Right-of-way plans to ODOT standards shall be prepared, submitted and approved by ODOT prior to the stage 2 submittal. The proposal shall include a fee per temporary and permanent right-of-way descriptions (assume 10 temporary and 6 permanent). A centerline plat and all warranty deed descriptions will need to be submitted to Montgomery County for approval before final plans are approved by ODOT. A dedication plan shall be completed and recorded with Montgomery County.

The consultant shall meet the following deadlines.

- Environmental Document Approval Date – January 2013
- Stage I plans submitted –October 2012
- ROW Plans Submitted – March 2013
- Stage II Plans Submitted – June 2013
- Stage III Plans Submitted – October 2014
- PS&E Plans Submitted – May 2015

Preliminary and final plans shall be forwarded to all impacted utilities and telecom providers within the project area. The consultant shall coordinate all activities of the utility and telecom providers during plan preparation and prior to construction. The consultant shall prepare standard 4A notes and Exhibit "B" documents as required by the ODOT as part of the PS&E package submittal. Consultant will also participate in a peer review of the plans performed by a separate consultant.

**PROJECT FUNDING:**

Design  
City of Dayton Capital Funds

Construction and Construction Engineering  
Ohio Department of Transportation Federal Surface Transportation Program (80%)  
City of Dayton Capital Funds and/or State Issue 1 funds (20%)

**REVIEW SUBMISSIONS REQUIRED:**

Preliminary Engineering Report (Substructure)  
Environmental  
Stage 1  
Stage 2

R/W Plans  
Stage 3

Review submissions will be made to the City of Dayton, Division of Civil Engineering and ODOT (when necessary). The consultant will coordinate all comments received as a result of each submission. The consultant will submit monthly progress reports to the City of Dayton summarizing the status of the environmental document, including when the next submittal is anticipated and any information or action required by ODOT or the City of Dayton, to both the City of Dayton and ODOT District 7.

**PUBLIC INVOLVEMENT MEETINGS:**

A public involvement meeting is required to complete the environmental clearance process (as detailed above in the Environmental section). The consultant shall prepare exhibits including a perspective rendering of three conceptual bridge designs and associated cost estimates. The consultant shall include the price for this public meeting in the fee proposal.

**PROPOSED DESIGN DATA:**

The proposed bridge shall be five lanes constructed along the existing alignment with a roadway width of 55'-60' (face of curb to face of curb) with 10' sidewalks on both sides. The bridge shall also include plazas on the four corners with bike path connections on the southwest, northwest and northeast corners of the bridge. The design speed of the proposed bridge shall be 35 mph. The bridge shall include lighting, railing, guardrail, signing, pavement markings, drainage, grading, and other work necessary to complete the bridge construction. The consultant will prepare a maintenance of traffic plan during construction, including a bike path detour.

The consultant shall investigate the presence of any utilities within the project limits and coordinate removals/relocations with the affected utilities during the design phase of the project.

**FINAL PLANS:**

Final plans, specifications and a detailed cost estimate (including quantities) shall be provided to the City of Dayton, Division of Civil Engineering. The plans shall be forwarded to the City on 24"x 36" reproducible sheets and electronic file (Autocad and downloadable ASCII Text File, utilizing the current City of Dayton field code library). The City will provide the successful consultant with the field codes prior to the beginning of work. This will be a Local Public Agency (LPA) project in which the City of Dayton will bid and manage construction of the project. Shop drawing review is to be included as part of the professional services of the consultant under this contract. Consultant shall also provide an hourly fee for value engineering services during construction.

**LOAD RATING:**

Consultant shall supply the load rating for the proposed bridge according to the Load and Resistance Factor (LRF) rating method. The rating shall include the HS Operating Rating, the HS Inventory Rating, and the Ohio % of Legal.

**INSURANCE:**

The successful firm will be required to maintain the following insurance during the performance of the contract:

- 1) General Liability Insurance, with a combined single limit of \$1,000,000 for each occurrence and \$1,000,000 in the aggregate.
- 2) Automobile Liability Insurance, with a combined single limit of \$1,000,000 for each person and \$1,000,000 for each accident.
- 3) Workers' Compensation Insurance in accordance with statutory requirements and Employers' Liability Insurance, with a limit of \$500,000 for each occurrence.
- 4) Professional Liability Insurance, with a limit of \$500,000 annual aggregate.
- 5) Errors and Omissions Insurance in the amount of \$500,000.

**PROPOSAL:**

The proposal shall indicate the firm's statement of qualifications including the firm's history, education, experience of key technical personnel, the firm's experience in designing similar projects, staff to be used on this project including project manager, present workload, and references (consultant shall be on ODOT's prequalified list for bridge design -Level 2, right of way plan development, and environmental services). The information provided shall also include a time frame and fee schedule to complete the plans, specifications, and cost estimate.

The proposals submitted by the responding firms will be evaluated based on personnel assigned to the project, experience, fee, and schedule (see attached "Firm Rating Form"). The proposals should specifically address the firm's experience in design of similar bridge projects. The evaluation committee will closely review each firm's qualifications to determine if projects have been completed on time and within budget.

Four copies of the proposal must be received by 5:00 PM, Friday, September 30, 2011 at the following location:

Stephen Finke  
Assistant Director  
Department of Public Works  
Division of Civil Engineering  
101 West Third Street  
Dayton, Ohio 45402

## Engineering Firm Rating Form

### **Project: Webster Street Bridge Replacement**

Selection Committee: Stephen Finke, Keith Steeber, Joe Weinel, Ben Botkin

### **Evaluation Criteria**

I. Team Proposed for this Project (Weight- 10 Points)

Key personnel, Sub-Consultant, Background of each

II. Proposed Management Plan (Weight- 10 Points)

III. Previous Experience of Team Proposed for this Project (Weight- 20 Points)

Team organization for design

IV. Design Approach for Project (Weight-20 Points)

A. What problems do you anticipate and how do you propose solving them?

B. Describe innovative approaches to be used to address problems.

V. Perform Within Time Limits (Weight- 10 Points)

Techniques to assure schedule will be met.

VI. Affirmative Action Practices (Weight- 5 Points)

VII. Fee (Lump Sum) (Weight- 25 Points)