



Professional Services Procurement Bulletin 2010-11

Statewide Design of Culvert and Bridge Structures

COUNTY	Statewide
DISTRICT	Statewide
PROJECT DESCRIPTION	Structural Design of Culverts and Bridges under 500 ft. span.
PROJECT MANAGER	William McKinney, PE
USER DIVISION	Structure Design
APPROXIMATE FEE	<ul style="list-style-type: none"> • \$750,000 upset limit (per consultant) • Projects to be assigned by letters of agreement not to exceed \$250,000 each • Three consultants to be selected. • 2-year contract term.
PURPOSE AND NEED	To assist the Department of Highways Division of Structural Design with structural engineering and design.
METHOD OF DESIGN	Design shall be by American Association of State Highway and Transportation Officials (AASHTO) Load Resistance Factor Design (LRFD) Specifications, unless otherwise stipulated by the Project Manager. The selected consultant shall utilize the Computer Aided Design & Drafting (CADD) Standards for Bridge Design. All submittals shall be in the form of a CADD deliverable. The CADD deliverable shall be in Microstation V8, dgn format, using Division of Bridge Design File Format, Seed Files, Cell Files and Resource File. Iplot organizer will be required for plotting final mylars. Eight person-hours will be allocated for this task. Design by AASHTO LRFD Specifications will be required on new projects. No additional hours will be allowed for LRFD designs.

DBE REQUIREMENT	None
PROJECT FUNDING	State and/or Federal Funds
SCOPE OF WORK	
<p>Structural design services for structures that have not otherwise been assigned to consultants and/or cannot be designed in-house.</p> <p>The required consulting services will include all final structural design engineering and plan preparation necessary for letting a project to construction.</p>	
SPECIAL INSTRUCTIONS	
<p>Three (3) firms will be selected to provide these services. The contract period is each firm receiving a two (2) year contract. Contracts will have an upset limit of \$750,000. Once the upset limit is reached or the two year term has expired, services will be re-advertised and no additional work assignments will be made under the contract. Contracts will not be modified to increase upset limit or extended for time to assign new work. No letter of agreement shall exceed \$250,000.</p> <p>The Selection committee will randomly draw from the pool and list in consecutive order to determine the initial order for which a project will be offered. Projects will be offered to firms on a rotating basis. A firm will not be offered an additional project until the remaining firms on the list have been offered a project. If a firm declines to accept a project or does not respond to an invitation to perform services for a project within fourteen days, documentation shall be placed in the project files and the next firm on the rotating list shall be offered the project.</p>	
STANDARD PERSON-HOURS	
<p>The person-hours allowed for each "standard" bridge or component as shown below:</p> <p>Substructures:</p> <ul style="list-style-type: none"> • Breastwall Abutments—90 hours • Single Row Pile Bents—30 hours • Integral End Bents—40 hours • Single or Wall Piers—80 hours • Two Column Piers— 95 hours • Three Column Piers—110 hours • Intermediate Pile Bent—60 hours 	

STANDARD PERSON-HOURS - CONTINUED

Superstructure: (One, two or three spans)

- Non-Composite Std Prestressed, Precast, Concrete Deck Units (PPCDU) (Standard Drawings) —0 hours
- Composite PPCDU (Slab Details per Span) — 25 hours
- Beam Details (Spread Boxes per span) — 48 hours
- Beam Details (Spread 1-beam per span) — 32 hours
- Slab Details Single Span — 40 hours
- Slab Multiple two or three Spans — 80 hours
- Construction Elevations — 32 hours

MISCELLANEOUS:

- Title Sheet — 16 hours
- General Note Sheet — 8 hours
- Layout Sheet — 32 hours
- Foundation Layout-Pile Layout Sheet — 15 hours
- Approach Slab (each) — 4 hours
- Check Shop Plans (12 hours)

Note: The above hours are based on a structure having a Zero (0) degree skew. (Add 10% to the total hours for a skewed structure.)

Culverts:

- One Barrel — 160 hours
- Two Barrel —200 hours
- Triple Barrel — 240 hours

Culvert Extensions:

- One Barrel — 160 hours
- Two Barrel — 200 hours
- Triple Barrel — 240 hours

Person-hours for non-standard structures will be negotiated on a case by case basis.

No additional hours will be allowed for skewed culverts.

PREQUALIFICATION REQUIREMENTS

STRUCTURES

- Spans under 500 feet

PROJECT SCHEDULE & MILESTONES

RESPONSE DATE	Wednesday, June 9, 2010 4:30 p.m. (Frankfort Time)
SELECTION COMMITTEE MEETING	June 23, 2010
SCOPING CONFERENCE	July 7, 2010
NOTICE TO PROCEED	August 1, 2010
COMPLETION OF ALL SERVICES	June 30, 2012

Individual project schedules will be by letter agreement on a project by project basis.

The selected consultant is expected to meet the scheduled milestone dates.

EVALUATION FACTORS

1. Relative experience of consultant personnel assigned to project team with highway projects for KYTC. (22 points)
2. Past record of performance on project of similar type and complexity. Including three prestressed concrete, one welded steel plate girder and one culvert extension (18 points)
3. Project approach and proposed procedures to accomplish services for project. (5 points)
4. Capacity to comply with project schedule (3 points)
5. Consultant's offices where work is to be performed. (2 points)

For state-funded projects, if a Selection Committee vote results in a tie between two (2) firms, one (1) of which will perform more of the work tasks in Kentucky than the other, then the former firm shall be ranked one (1) place ahead of the latter.

SELECTION COMMITTEE MEMBERS

1. William McKinney, PE, User Division
2. Kevin Sandefur, PE, User Division
3. Phil Mauney, PE, Secretary's Pool
4. Gary Valentine, PE, Secretary's Pool
5. David Atwell, PE, Governor's Pool