

## **B-3835 Project Synopsis**

### **Purpose and Description of Project:**

- Bridge No. 35 (Kathryn Crosby Bridge) on US 158 (Clemmons Road) over the Yadkin River in Davie-Forsyth Counties has a sufficiency rating of 16.5 out of 100 and is functionally obsolete. TIP Project B-3835 will replace this 2-lane bridge with a 4-lane structure and approaches, a total distance of approximately 0.690 miles.

### **Planning:**

- Planning studies have been completed. A Categorical Exclusion (CE) and Programmatic Section 4(f) Evaluation was approved on January 13, 2004. Revised Programmatic Section 4(f) Evaluations were approved on March 30, 2007. A copy of the CE and revised Programmatic Section 4(f) Evaluations will be made available to the short-listed Design-Build teams.
- Municipal agreements with the Towns of Clemmons and Bermuda Run are currently being procured. Any commitments outlined in that agreement will need to be addressed by the Design-Build team. A copy of the agreements will be provided to the short-listed Design-Build teams.
- The Design-Build Team shall address all commitments contained in the planning/environmental document and the municipal agreements. The commitment to develop and implement a landscape plan for the Win-Mock Farm will be the responsibility of the NCDOT.

### **Public Involvement:**

- During the project's construction, the Design-Build team must coordinate with the Division 9 Office, the Construction Unit, and the Town of Clemmons and the Town of Bermuda Run to inform the public of lane closures, construction progress, and any issues that may arise regarding the Municipal Agreement.

### **Roadway Design Scope of Work:**

- The Design-Build Team shall design and construct a four-lane curb and gutter facility on US 158 from west of the entrance to Bermuda Run to the existing five lane section at the entrance to River Oaks Townhome development.
- The US 158 improvement shall be designed to meet a 50-mph design speed for a rural minor arterial.
- Preliminary roadway design plans will be provided to the short-listed firms. The Design-Build Team will be responsible for determining the use, if any, to be made of these plans and assume all responsibility for the accuracy of the preliminary plans. All revisions to the existing preliminary design to conform to the typical sections described above will be the responsibility of the Design-Build Team.

### **Structure Design:**

- The Design-Build Team shall design and stage construct a new bridge No. 35 on US 158 (Clemmons Road) over the Yadkin River.
- Removal of the existing bridge shall conform to NCDOT's Best Management Practices for Bridge Demolition and Removal.

### **Hydraulics Design:**

- The Design-Build team will be responsible for all storm drainage design.
- Structure deck drainage will not be permitted to directly enter the Yadkin River.
- The Design-Build Team shall be responsible for FEMA compliance.

### **Location & Surveys:**

- Existing project data including electronic surveys of topography, existing and proposed roadway, structure sites, underground and overhead utilities, existing and proposed drainage, right of way, parcel names, deed research and descriptions will be made available to the short-listed firms. All additional surveys required to complete the design work shall be the responsibility of the Design-Build Team.

### **Geotechnical Investigations and Design:**

- Roadway and Structure Subsurface investigations will be provided to the short-listed Design-Build teams. Any additional geotechnical work will be the responsibility of the Design-Build team.
- All foundation designs and recommendations will be the responsibility of the Design-Build team.

### **Environmental Permits**

- The Design-Build Team will be responsible for preparation of all documents required to obtain or modify environmental permits necessary to complete the project. It is anticipated that a US Army Corps of Engineers Nationwide Section 404 permit and a NC Department of Natural Resources, Division of Water Quality General 401 Water Quality Certification will be required.

### **Erosion Control Design:**

- All erosion control designs and implementation shall be the responsibility of the Design-Build team.

- NCDOT's Best Management Practices for Protection of Surface Waters shall be used by the Design-Build Team throughout the life of the project.
- The Design-Build Team shall have an erosion control inspector on the project at all times.

**Traffic Control and Pavement Marking Design:**

- The Design-Build team will be responsible for developing the Traffic Control and Pavement Marking Plans.
- A list of parameters, such as lane closures, time restrictions and general guidelines will be provided to the short-listed teams.

**Pavement Design:**

- Final permanent asphalt pavement designs will be provided to all short-listed Design-Build teams.
- All temporary pavement designs shall be the responsibility of the Design-Build team.

**Signing:**

- The design and installation of signs will be required and shall be the responsibility of the Design-Build team.

**Right of Way Acquisition:**

- The Design-Build team will be responsible for right of way acquisition including all necessary services to perform appraisals, appraisal review, negotiation and relocation. The team will deliver all documents necessary for the settlement of claims and the recordation of deeds or necessary for condemnation to the Department.

**Utilities Coordination:**

- The Design-Build team will be responsible for all utility conflicts/relocations and utility construction plans. Coordination shall include preparations and/or obtaining any and all necessary utility agreements.
- The Design Build Firm shall obtain the services of a firm pre-qualified by NCDOT and knowledgeable in the Utility Coordination Process involved with utility relocation/installation and highway construction. The Design-Build team shall be responsible for coordinating all utility relocations. Coordination shall include any necessary utility agreements when applicable.

**Construction Engineering Inspection (CEI):**

- The Department will be responsible for CEI work on this project.  
**Preliminary Estimate**
- The latest Preliminary Estimate for this project is \$17.0 Million.