

## **R-3601 Project Synopsis**

**Revised June 10, 2013**

### **Stipend**

- A stipulated fee of \$45,000 will be awarded to each short-listed Design-Build Team that provides a responsive, but unsuccessful, Design-Build Proposal in response to the final RFP and all associated addenda. If a contract award is not made, all short-listed Design-Build Teams that provide a responsive Design-Build Proposal shall receive the stipulated fee.

### **Project Description and Purpose**

- Project R-3601 consists of widening existing US 17/US 74/US 76 from four lanes to six lanes, from the NC 133 (River Road) / SR 1472 (Village Road) Interchange to the US 421/NC 133 Interchange West of Wilmington in Brunswick and New Hanover Counties. The project is approximately 1.7 miles in length. An additional inside lane is to be added in each direction and will be constructed within existing right of way.
- The project also includes construction of a Diverging Diamond Interchange (DDI) at the NC 133 (River Road) / SR 1472 (Village Road) Interchange, and improvements at the intersection of US 17/US 74/US 421/NC 133 and SR 1352 (USS North Carolina Road).
- The project's primary purpose is to improve the weaving and merge area between the interchanges and to reduce congestion.

### **Planning**

- The R-3601 Categorical Exclusion (CE) was approved on September 22, 2010 and the R-3601 Categorical Exclusion Addendum (CE Addendum) was approved on August 18, 2011.
- The R-3601 Right of Way Consultation was completed on November 27, 2012.
- The Design-Build Team shall adhere to all environmental documents commitments. A copy of the CE, CE Addendum, and Right of Way Consultation will be made available to the short-listed Design-Build Teams.

### **Public Involvement Scope of Work**

- During the project's construction, the Design-Build Team shall coordinate with the Division 3 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

## Roadway Scope of Work

- The Department will provide Right of Way Roadway Plans to the Design-Build Team. The Design-Build Team shall design and construct widening on US 17/US 74/US 76, consisting of one lane in each direction, to make US 17/US 74/ US 76 a six-lane divided facility. Existing lanes will be resurfaced.
- The project also includes the design and construction of a Diverging Diamond Interchange (DDI) at the NC 133 (River Road) / SR 1472 (Village Road) Interchange, and the construction of a dedicated right turn lane and revising the concrete island to accommodate truck traffic at the intersection of US 17/US 74/US 421/NC 133 and SR 1352 (USS North Carolina Road).

## Structure Scope of Work

- The Department will provide signed and sealed Structure Plans. The Design-Build Team shall be responsible for all required modifications based on the Design-Build Team's design and / or construction methods.
- The Design-Build Team shall be responsible for the construction of all structures necessary to complete the project, including but not limited to the bridge replacements at the following locations:
  - Bridge Nos. 103 & 105 on US 17-74-76 over Brunswick River  
(Department's Structure Plans developed with 54" Prestressed Concrete Girders and 4'-0" Diameter Drilled Piers)
  - Bridge No. 107 on US 17-74-76 over Alligator Creek  
(Department's Structure Plans developed with AASHTO Type II Prestressed Concrete Girders and 4'-0" Diameter Drilled Piers)
- The Design-Build Team shall be responsible for the construction of the widening of Bridge No. 108 on US 17-74-76 over Alligator Creek. (Department's Structure Plans developed with AASHTO Type II Prestressed Concrete Girders and 4'-0" Diameter Drilled Piers)

## Hydraulic Scope of Work

- The Design-Build Team shall be responsible for all storm drainage design and construction.
- The Department will provide signed and sealed Bridge Survey Reports and Culvert Survey Reports. If required by the Design-Build Team's design and / or construction methods, the Design-Build Team shall be responsible for all required report modifications.

## **Geotechnical Scope of Work**

- Roadway subsurface investigations will be provided to the short-listed Design-Build Teams. The Design-Build Team shall be responsible for all recommendations, as well as supplemental roadway investigations.
- The Department will provide the structure subsurface investigations and recommendations to the short-listed Design-Build Teams. The Design-Build Team shall be responsible for all report modifications or supplemental structural investigations.
- The Design-Build Team shall be responsible for the design and construction of all foundations, embankments, slopes, retaining walls and temporary structures.

## **Geoenvironmental Scope of Work**

- The Design-Build Team and NCDOT responsibilities for geoenvironmental remediation will be outlined in the RFP.

## **Environmental Scope of Work**

- The Department will be responsible for preparing all documents necessary to obtain the environmental permits for this project based on the Department's Right of Way Roadway plans and sealed Structure Plans. The anticipated project permits include a US Army Corps of Engineers Section 404 Individual Permit; a NC Department of Environment and Natural Resources, Division of Water Quality (DWQ) Section 401 Water Quality Certification; Coastal Area Management Act (CAMA) Major Development Permit; and a United State Coast Guard (USCG) permit.

## **Erosion Control Scope of Work**

- The Design-Build Team shall be responsible for all erosion control designs and implementation. The Design-Build Team shall have a certified erosion control inspector on the project at all times during construction.

## **Traffic Control Scope of Work**

- The Design-Build Team shall be responsible for developing the Traffic Control Plans. A list of parameters, such as lane closures, time restrictions, moratoriums, and general guidelines will be provided in the Request for Proposals.

## **Pavement Marking Scope of Work**

- The Design-Build Team shall be responsible for the design and installation of all Pavement Marking Plans.

## **Traffic Signals Scope of Work**

- The Design-Build Team shall be responsible for the design and installation of all traffic signals.

## **Pavement Design Scope of Work**

- Final pavement designs will be provided in the Request for Proposals.
- The Design-Build Team shall be responsible for the design of all temporary pavements and the evaluation of existing shoulders and roadways regarding their suitability for carrying traffic during construction, if necessary. If required, the Design-Build Team shall be responsible for strengthening existing facilities prior to routing traffic on them.

## **Signing Scope of Work**

- The Design-Build Team shall be responsible for the design and installation of all roadway signs.

## **Location and Surveys Scope of Work**

- Electronic surveys are completed and will be provided to the short-listed teams. The Design-Build Team shall be responsible for supplemental surveys.
- Known existing utilities have been located and will be included with the survey data provided to the short-listed teams. The Design-Build Team shall be responsible for all supplemental SUE work.

## **R/W Utilities, Conflicts and / or Construction Scope of Work**

- The Department will provide Utility by Others and Utility Construction plans to the short-listed teams. The Design-Build Team shall be responsible for all utility conflicts / relocations and utility construction plans modifications based on the team's design. Coordination shall include, but not be limited to, preparations and / or obtaining all necessary utility agreements.
- The Design-Build Team shall be responsible for coordinating the construction / relocation of private utilities with the appropriate owners.

## **Right of Way Scope of Work**

- The Department has begun the right of way acquisition process. The Design-Build Team shall be responsible for all right of way and easement acquisitions not finalized upon award of the contract.

- The Design-Build Team shall be responsible for any additional right of way and easement acquisitions required by the proposed design and / or construction for those parcels that the Department completed the right of way acquisition process.

### **Lighting Scope of Work**

- The Design-Build Team shall be responsible for the installation of all lighting.

### **Construction Engineering Inspection (CEI) Scope of Work**

- The Department will be responsible for CEI work.