

## **I-4744 Project Synopsis**

### **Project Description and Purpose**

- I-4744 widens I-40 from west of Wade Avenue to east of Jones Franklin Road, a distance of approximately 6.2 miles. The proposed improvements include the addition of one 12-foot lane and one 12-foot shoulder in each direction within the existing variable width median.
- The signing work along I-40 / I-440 / US 64 from Wade Avenue eastward to Sunnybrook Road, previously designated as TIP Project I-4902, is included in this project.
- The primary purpose of this project is to provide operational improvements to I-40.

### **Planning**

- The I-4744 Categorical Exclusion (CE) was approved on January 29, 2009. The Design-Build Team shall adhere to all environmental documents commitments. A copy of the CE will be made available to the short-listed Design-Build Teams.
- TIP Project I-4744 is not following the Merger 01 Process.

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

- During the project's construction, the Design-Build Team shall coordinate with the Division 5 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

### **Roadway Scope of Work**

- The Design-Build Team shall design and widen I-40 from a four-lane divided roadway to a six-lane divided facility that adheres to a rolling urban freeway 70-mph design speed.

### **Structure Scope of Work**

- The Design-Build Team shall be responsible for the design and construction of all structures necessary to complete the project, including but not limited to bridge widening at Wade Avenue and US 1 / 64, as well as 2-3 sound barrier walls.

### **Hydraulic Scope of Work**

- The Design-Build Team shall be responsible for all storm drainage design and construction.

## **Geotechnical Scope of Work**

- Roadway and structure 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 and structural investigations.

## **Environmental Scope of Work**

- The Project Study Area lies entirely within the North Carolina Division of Water Quality (DWQ) sub-basin 03-04-02 (NCDWQ 2002) of the Neuse River Basin. Consequently, the proposed project is subject to Neuse Buffer Regulations.
- Based on the Department's design, the NCDOT will obtain the required permits prior to Award. The Design-Build Team shall be responsible for preparing all documents necessary for a permit modification resulting from design revisions and / or construction methods.

## **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 and Pavement Marking Scope of Work**

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

## **Pavement Design Scope of Work**

- Final asphalt 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 roadway signs as defined in the Request for Proposals.

## **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.
- The Design-Build Team shall be responsible for all structure surveys.

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

- The Design-Build Team shall be responsible for all utility conflicts / relocations and utility construction plans. Coordination shall include, but not be limited to, preparations and / or obtaining all necessary utility agreements.

## **Lighting Scope of Work**

- The Department will provide interchange lighting designs. The Design-Build Team shall provide all lighting construction materials and be responsible for installation.

## **ITS Scope of Work**

- The Design-Build Team shall be responsible for the design and installation of ITS components, including but not limited to one DMS, CCTVs and fiber optic cable.

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

- The Department will be responsible for CEI work.