

## **I-5504 Project Synopsis**

**Revised August 3, 2015**

### **Stipend**

- A stipulated fee of **\$50,000** will be awarded to each short-listed Design-Build Team that provides a responsive, but unsuccessful, Design-Build Proposal in response to the Final Request for Proposals 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. In the event that the Department suspends or discontinues the procurement process prior to the Design-Build Proposal submittal date current at the time of the suspension, no stipulated fee will be paid.

### **Project Description and Purpose**

- The Design-Build Project I-5504 will modify the I-26 / NC 191 (Brevard Road) interchange in Buncombe County.
- **Beginning at Pond Road and continuing eastward for approximately 1.2 mile, the Design-Build Project I-5504 will widen I-26, including pavement reconstruction.**
- The primary purpose of this project is to reduce traffic congestion and improve the I-26 / NC 191 (Brevard Road) interchange efficiency.

### **Planning**

- It is anticipated that the I-5504 Categorical Exclusion (CE) will be approved in August 2015.
- The Design-Build Team shall adhere to all environmental document commitments. A copy of the CE will be made available to the short-listed Design-Build Teams.

### **Public Information**

- During the project's construction, the Design-Build Team shall coordinate with the Division 13 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

### **Roadway**

- The Design-Build Team shall design and construct interchange modifications at the I-26 / NC 191 (Brevard Road) interchange.
- **The Design-Build Team shall design and construct approximately 1.2 miles of I-26 to accommodate a future eight-lane facility with a twenty-six foot full depth paved median and Type T concrete median barrier. Throughout the project limits, the I-26 design and construction shall include pavement reconstruction.**

- **The I-26 improvements shall be designed and constructed to meet a 70-mph design speed for a rolling freeway designed to interstate standards. The NC 191 improvements shall be designed and constructed to meet a 50-mph design speed.**

## **Structures**

- The Design-Build Team shall design and construct all structures necessary to complete the project.
- The Design-Build Team shall replace Bridge No. 100171 on NC 191 (Brevard Road) over I-26.
- The Design-Build Team shall replace or extend all reinforced concrete box culverts impacted by the project's design and /or construction
- The Design-Build Team shall design and construct all required noise and retaining walls. The Department will provide the Final Design Noise Report.

## **Hydraulics**

- The Design-Build Team shall design and construct all storm drainage.
- The Design-Build Team shall be responsible for all Culvert Survey Reports.
- The Design-Build Team shall develop a State Stormwater Management Plan.

## **Geotechnical**

- 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.
- The Design-Build Team shall design and construct all foundations, embankments, slopes, retaining walls and temporary structures.

## **Environmental**

- The Design-Build Team shall prepare all documents necessary for the Department to obtain the environmental permits for this project. The anticipated required permits include a US Army Corps of Engineers Section 404 Nationwide Permit; a NC Department of Environment and Natural Resources, Division of Water Resources (DWR) Section 401 Water Quality Certification; a State Stormwater Permit.

## **Erosion Control**

- The Design-Build Team shall be responsible for all erosion control designs and implementation.

## **Transportation Management**

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

## **Pavement Markings**

- The Design-Build Team shall develop Pavement Marking Plans and install all pavement markings / markers.

## **Traffic Signals**

- The Design-Build Team shall design and install all temporary and permanent traffic signals.
- The Design-Build Team shall upgrade one existing traffic signal.

## **Pavement Design**

- A concrete mainline pavement design and asphalt -Y- Line pavement designs will be provided in the Request for Proposals.
- The Design-Build Team shall design all temporary pavements and evaluate existing shoulders and roadways regarding their suitability for carrying traffic during construction, if necessary.

## **Signing**

- The Design-Build Team shall design, fabricate and install all roadway signs.

## **Location and Surveys**

- Electronic surveys 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.

## **Utility Construction**

- The Design-Build Team shall design and construct the relocation of all water and sewer facilities in conflict with the project.

## **R/W Utilities, Conflicts and / or Construction**

- 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.
- The Design-Build Team shall coordinate the construction / relocation of private utilities with the appropriate owners.

## **Right of Way**

- The Design-Build Team shall acquire all right of way, easement and / or control of access required by the proposed design and / or construction.

## **Lighting**

- The Department will provide signed and sealed Lighting Plans.
- The Design-Build Team shall install all lighting.

## **Construction Engineering Inspection (CEI)**

- The Department will be responsible for CEI work.