

R-2583 Project Synopsis

Project Description and Purpose

- The Design-Build Project R-2583 extends from the Murfreesboro Bypass to US 13, west of Winton, in Hertford County. The proposed improvements consist of widening approximately eight miles of US 158 to a four-lane divided facility with partial control of access. Directional crossovers with median U-Turns are included in the proposed improvements.
- The project's primary purpose is to provide system linkage, support economic development and ensure future safety within the project limits.

Planning

- The R-2583 State Environmental Assessment (SEA) was approved on April 27, 2006, and the State Finding of No Significant Impact (SFONSI) was approved on June 3, 2008. The Design-Build Team shall adhere to all environmental document commitments. A copy of the SEA and SFONSI will be made available to the short-listed Design-Build Teams and / or posted on the Design-Build website.
- TIP Project R-2583 is following the Merger 01 Process. The Department has obtained the necessary concurrence up to Concurrence Point 4A. The Design-Build Team shall be responsible for obtaining all remaining Merger 01 Concurrence Points.

Public Involvement Scope of Work

- During the project's construction, the Design-Build Team shall coordinate with the Division 1 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 construct US 158 as a four-lane divided facility with a 46-foot median. The partial control of access facility shall be designed and constructed to meet a 60-mph design speed for a level rural principal arterial.
- At-grade intersections with directional crossovers and median U-Turns shall be designed and constructed along the mainline.

Structure Scope of Work

- The Design-Build Team shall be responsible for the design and construction of all structures necessary to complete the project.
- The Design-Build Team shall design and construct dual bridges on US 158 over Potecasi Creek that adhere to the AASHTO LRFD Bridge Design Specifications. The

Design-Build Team shall be responsible for the removal and disposal of the existing bridge on US 158 over Potecasi Creek.

- The Design-Build Team shall be responsible for the replacement and / or extension of approximately six reinforced concrete box culverts.

Hydraulic Scope of Work

- The Design-Build Team shall be responsible for all storm drainage design and construction.
- The Design-Build Team shall obtain FEMA compliance for regulated stream crossings.
- The Design-Build Team shall be responsible for all Bridge Survey Reports and Culvert Survey Reports.
- The Design-Build Team shall develop a State Stormwater Management Plan.

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.
- The Design-Build Team shall be responsible for the design and construction of all foundations, embankments, slopes, retaining walls and temporary structures.

Environmental Scope of Work

- The Design-Build Team shall be responsible for preparing all documents necessary for the Department to obtain the environmental permits. The anticipated required 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; State Stormwater Permit and a NC Division of Coastal Management (DCM) Major Development Permit.
- The Design-Build Team shall be responsible for completing the Merger 01 Process, including but not limited to obtaining Concurrence Points 4B and 4C.

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 Management Scope of Work

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

Pavement Marking Scope of Work

- The Design-Build Team shall be responsible for developing Pavement Marking Plans and installing all required temporary and permanent pavement markings and markers.

Traffic Signals Scope of Work

- The Design-Build Team shall be responsible for the design and construction of all temporary traffic signals.
- The Design-Build Team shall be responsible for upgrading existing traffic signals.

Pavement Design Scope of Work

- Final asphalt mainline and –Y- Line pavement designs will be provided in the Request for Proposals.
- The Design-Build Team shall be responsible for all temporary pavement designs and the evaluation of existing shoulders and roadways regarding their suitability for carrying traffic during construction. 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, fabrication and installation of all roadway signs.

Location and Surveys Scope of Work

- Electronic surveys will be provided to the short-listed teams. The Design-Build Team shall be responsible for all 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 Scope of Work

- The Design-Build Team shall be responsible for the design and construction of water and sewer facilities in conflict with the project.

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.
- The Design-Build Team shall be responsible for coordinating the construction / relocation of private utilities with the appropriate owners. Coordination shall include, but not be limited to, preparing and / or obtaining all necessary utility agreements.

Right of Way Scope of Work

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

Construction Engineering Inspection (CEI) Scope of Work

- The Department will be responsible for CEI work.