

I-3803B Project Synopsis

Project Description and Purpose

- The Design-Build Project I-3803B consists of providing an eight-lane divided facility from south of Bruton Smith Boulevard / Concord Mills Boulevard (SR 2894) to NC 73 (Davidson Highway) in Cabarrus County. The project will reconstruct and widen approximately 6.8 miles of I-85, including interchange modifications.
- The project's primary purpose is to provide relief from present and future congestion and provide a higher level of efficiency on I-85.

Planning

- The I-3803B Environmental Assessment (EA) was approved on June 24, 2009. It is anticipated that the Finding of No Significant Impact (FONSI) will be approved in February 2010.
- The Design-Build Team shall adhere to all environmental document commitments. A copy of the EA and FONSI will be made available to the short-listed Design-Build Teams.
- TIP Project I-3803B 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 10 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 an eight-lane divided facility with a 22-foot median. The I-85 widening and reconstruction shall be designed and constructed to meet a 70-mph design speed for a rolling urban freeway designed to Interstate standards.
- The Design-Build Team shall design and construct minor interchange modifications at Concord Mills Boulevard / Bruton Smith Boulevard (SR 2894) and George W. Liles Parkway (SR 1430). The Design-Build Team shall design and reconstruct interchanges at Poplar Tent Road and NC 73.
- The Design-Build Team shall design and construct -Y- Lines that provide the same or better access, widening and improvements as those shown on the Design Public Hearing Map and Right of Way Plans provided by the Department.

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 bridges at the following locations that adhere to the AASHTO LRFD Bridge Design Specifications:
 - I-85 over Rocky River
 - Poplar Tent Road over I-85
 - I-85 over Coddle Creek
 - NC 73 over I-85
- The Design-Build Team shall be responsible for the removal and disposal of the following bridges
 - Dual bridges on I-85 over Rocky River
 - Poplar Tent Road over I-85
 - Dual bridges on I-85 over Coddle Creek
 - NC 73 over I-85
- The Design-Build Team shall be responsible for the replacement and / or extension of approximately three reinforced concrete box culverts.
- The Design-Build Team shall be responsible for the design and construction of all required retaining walls and sound barrier walls. The Department will be responsible for the Final Design Noise Report.

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 the 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.

Geoenvironmental Scope of Work

- Sixteen underground storage tanks (UST), a landfill and two other sites have been discovered on the project and have the potential to be contaminated. The NCDOT will complete preliminary environmental studies on these sites and provide the results to the short-listed teams.
- The Design-Build Team shall adhere to all Right of Way Branch procedures regarding the acquisition of contaminated property and the right of way acquisition recommendations provided by the Department.
- The specific Design-Build Team and NCDOT responsibilities for geoenvironmental remediation will be outlined in the Request for Proposals.

Environmental Scope of Work

- The Design-Build Team shall be responsible for preparing all documents necessary for the Department to obtain the environmental permits for this project. The anticipated project permits include a US Army Corps of Engineers Section 404 Individual Permit; an NC Department of Environment and Natural Resources, Division of Water Quality (DWQ) Section 401 Water Quality Certification; and State Stormwater 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 the development and installation of the 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 the development and installation of the Pavement Marking Plans.

Traffic Signals Scope of Work

- The Design-Build Team shall be responsible for the design and installation of all new traffic signals. The Design-Build Team shall be responsible for upgrading several existing traffic signals.
- The Design-Build Team shall be responsible for the design and installation of four separate Closed-Loop Signal Systems.

ITS Scope of Work

- The Design-Build Team shall be responsible for the ITS infrastructure installation, including but not limited to foundations and poles.
- The Design-Build Team will not be responsible for the installation or integration of ITS communication equipment, including but not limited to cameras and conduit.
- The Design-Build Team and NCDOT specific responsibilities will be outlined in the Request for Proposals.

Pavement Design Scope of Work

- Final concrete mainline pavement designs and asphalt –Y- Line 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.

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 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.
- 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 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.

Lighting Scope of Work

- The Department will be responsible for the lighting design. The Design-Build Team shall be responsible for the installation of all required lighting.

Construction Engineering Inspection (CEI) Scope of Work

- The Division Office will be responsible for CEI work.