R-2123CE Project Synopsis

Project Description and Purpose

- TIP Project R-2123CE is the modification to the I-485/I-85 Interchange. This project is located in Mecklenburg and Cabarrus Counties.

Planning

- Planning studies have been completed. The Project was evaluated under the FEIS and ROD for R-2123 but required a re-evaluation which was satisfied by a Categorical Exclusion. The CE is complete and was approved on November 30, 2009.

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 a six-lane divided facility with a 70-foot median on new location from east of I-85 on existing I-485 to west of I-85 tying into the proposed Project R-2248E.
- The Design-Build Team shall design and construct additional lanes on I-85 from just north of SR 2472 Mallard Creek Church Road to approximately 600' south of Bruton Smith/Concord Mills Boulevard tying into the proposed Project I-3803B.
- The Design-Build Team shall design and construct a fully directional freeway to freeway interchange at the intersection of I-485 and I-85.

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 adhering to the AASHTO LRFD Bridge Design Specifications:
    - The I-485 Eastbound bridge
    - The I-485 Westbound bridge
    - The Ramp E bridge
    - The Ramp F bridge
    - The Ramp G bridge
    - The Ramp H bridge
    - The realigned Mallard Creek Road bridge over I-85
- The Design-Build Team shall be responsible for the design and construction of all required retaining and noise walls.

- The Design-Build Team shall be responsible for demolishing the existing I-485 flyover bridge over I-85 as well as the existing Mallard Creek Road bridge over I-85.

Hydraulic Scope of Work

- The Design-Build Team shall be responsible for all Storm Drainage Design and construction.
- The Design-Build Team shall be responsible for all bridge survey and culvert survey reports.
- The Design-Build Team shall develop a State Stormwater Management Plan.

Pavement Design Scope of Work

- Final concrete 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. If required, the Design-Build Team shall be responsible for strengthening existing facilities prior to routing traffic on them.

Location and Surveys Scope of Work

- Electronic surveys are completed and will be provided to the short-listed teams. Supplemental surveys shall be the Design-Build Team's responsibility.
- Known existing utilities have been identified. All supplemental SUE work will be the responsibility of the Design-Build Team.
- All structure surveys will be the responsibility of the Design-Build Team.

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 for this project. The anticipated project permits include a US Army Corps of Engineers Section 404 Individual Permit and an NC Department of Environment and Natural Resources, Division of Water Quality (DWQ) Section 401 Water Quality Certification.
- The Design-Build Team shall be responsible for completing the Merger 01 Process, including but not limited to obtaining Concurrence Points 4B and 4C.
- On-site Stream mitigation design and construction may be a part of this project.

Erosion Control Scope of Work

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

Signing Scope of Work

- The design, fabrication and installation of roadway signs shall be the responsibility of the Design-Build Team.

Traffic Management and Pavement Marking Scopes 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 and general guidelines will be provided in the Request for Proposals
- The Design-Build Team shall be responsible for developing the Pavement Marking Plans.

Right of Way Acquisition 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.

Right of Way 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.

CEI Scope of Work

- The Division Office will be responsible for CEI work.