R-2606B (Formerly R-2606B and R-2606C) Project Synopsis

January 2, 2008

Project Description and Purpose

The Design-Build Project, R-2606B, is the US 311 Bypass in Randolph County. The project was formerly designated as R-2606B and R-2606C and is the future I-74. The project extends from north of Spencer Road (SR 1929) to US 220 on new location. The total project length is approximately 7.9 miles. The proposed improvements consist of a four-lane divided freeway with full control of access.

The primary purpose of this project is to improve travel in the US 311 corridor by reducing travel time, allowing through traffic to avoid congestion on existing US 311 and reduce accident rates. This project, coupled with the recently let TIP Project R-2606A, will complete the upgrade of US 311 to a freeway facility from I-40 in Winston-Salem to US 220 near Randleman.

Planning

An Environmental Assessment (EA) was approved on March 31, 1997 and a Finding of No Significant Impact (FONSI) was approved on February 26, 1999. The Design-Build Team shall adhere to all commitments stated in the environmental documents. Copies of these documents will be made available to the short-listed Design-Build Teams.

The Environmental Documents were prepared for R-2606. The designation of R-2606B herein refers to both R-2606B and R-2606C as shown on the Public Hearing Map.

TIP Project R-2606B is following a modified Merger 01 Process. Related correspondence resulting from the merger team meetings will be made available to the short-listed Design-Build Teams.

As detailed in the Finding of No Significant Impact, Corridor C was selected as the preferred alternative through the pre-merger 01 pipeline process.

Public Involvement Scope of Work

During the project's construction, the Design-Build Team shall coordinate with the Division 8 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 four-lane divided facility with a 70-foot median. The US 311 Bypass shall be designed and constructed to meet a 70-mph design speed for a rolling rural freeway.

The northern project terminus shall tie to the existing four-lane divided facility and complete the Cedar Square Road (SR 1928) interchange. The southern project terminus shall provide directional ramps to US 220.

The Design-Build Team shall design and construct interchanges at the following locations:

Cedar Square Road (SR 1928) - Paving only
US 311
US 220

The Design-Build Team shall design and construct -Y- Lines, service roads and cul-de-sacs, providing access, widening and improvements as indicated on the Public Hearing Map and Preliminary 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:

Banner White Head Road (SR 1931) over US 311 Bypass
Branson Davis Road (SR 1944) over US 311 Bypass
Walker Mill Road (SR 1936) over US 311 Bypass
US 311 Bypass over existing US 311 and Norfolk Southern Railroad - Duals
Plain Field Road (SR 1518) over US 311 Bypass
Heath Dairy Road (SR 1511) over US 311 Bypass
US 311 Bypass over US 220 - Two directional fly-overs

It is anticipated that reinforced concrete box culverts will be required at the following locations:

Unnamed tributary to Muddy Creek
Bob Branch
Unnamed tributary to Caraway Creek
Unnamed tributary to Back Creek
Back Creek

The Design-Build Team shall be responsible for the design and construction of all required retaining walls. The Department will be responsible for the Final Noise Report. It is anticipated that a noise wall will be required in proximity to Nelson Park Road.

Railroad Coordination Scope of Work

The Design-Build Team shall be responsible for coordinating all railroad design and construction details on Norfolk Southern Railroad (Railroad) right of way and obtaining an executed agreement with the Railroad.

The Design-Build Team shall make the necessary arrangements with the Railroad that are required to protect against property damage that may result in loss of service, expense, or loss of life.

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 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

Underground storage tanks (UST) and RCRA hazardous waste 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.

If any additional contaminated sites are discovered within the right of way, it shall be the Design-Build Team's responsibility to contact the Department's Geotechnical Unit.

The Design-Build Team and NCDOT responsibilities for geoenvironmental remediations will be outlined in the Request for Proposal (RFP).

Environmental Scope of Work

The Department has obtained Corridor Permits for R-2606. The Design-Build Team shall be responsible for preparing all documents necessary for the Department to obtain the required environmental permits / permit modifications. The Design-Build Team shall be responsible for obtaining permits and / or modifications to the US Army Corps of Engineers Section 404 Individual Permit, the NC Department of Natural Resources and Division of Water Quality (DWQ) Section 401 Water Quality Certification, the Randleman Buffer Certification and the State Stormwater Permit.

Three potential on-site mitigation sites are located within the project's corridor. The Design-Build Team and NCDOT responsibilities for on-site mitigation will be outlined in the RFP.

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.

Traffic Control and Pavement Marking Scope of Work

The Design-Build Team shall be responsible for the development and installation of the Traffic Control and Pavement Marking Plans.

A list of parameters, such as lane closures, time restrictions and general guidelines will be provided in the RFP.

Pavement Design Scope of Work

Final asphalt pavement designs will be provided in the RFP.

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 and installation of roadway signs shall be the responsibility of the Design-Build Team.

Traffic Signal Scope of Work

There are no traffic signals anticipated.

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.

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 located and will be included with the survey data. All supplemental SUE work shall be the responsibility of the Design-Build Team.

All structure surveys shall be the responsibility of the Design-Build Team.

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 preparations and / or obtaining any and all necessary utility agreements.

The Design-Build Team shall be responsible for coordinating the construction / relocation of private utilities with the appropriate owners.

Construction Engineering Inspection (CEI) Scope of Work

The Division Office will be responsible for CEI work.