

U-2579D, E & F Project Synopsis

Stipend

- A stipulated fee of **\$75,000** 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 U-2579D, E & F will provide a six-lane divided facility on new location from east of US 52 to US 311 (New Walkertown Road) in Forsyth County, a distance of approximately 6.9 miles.
- The primary purpose of this project is to extend the Future I-74 - Winston-Salem Northern Beltway to provide a circumferential facility around Winston-Salem, reduce the volume of traffic on portions of the local street network, and connect the major radial routes in the northern and eastern sections of Winston-Salem. This portion of the Winston-Salem Northern Beltway is also part of the I-74 corridor, a congressionally designated High Priority Corridor on the National Highway System.

Planning

- The U-2579 Draft Environmental Impact Statement was approved in September 1995.
- The R-2247 Final Environmental Impact Statement was signed on March 14, 1996.
- The R-2247 Supplemental Final Environmental Impact Statement / U-2579 and U-2579A Supplemental Draft Environmental Impact Statement was signed on October 1, 2004.
- The R-2247 Supplemental Final Environmental Impact Statement / U-2579 and U-2579A Final Environmental Impact Statement was approved on January 11, 2007.
- The R-2247 / U-2579 and U-2579A Record of Decision was issued on February 15, 2008.
- The Design-Build Team shall adhere to all environmental document commitments. A copy of the environmental documents noted above will be made available to the short-listed Design-Build Teams.

- TIP Project U-2579D, E & F is following the Merger Process. The Department has obtained all necessary concurrence up to, and including Concurrence Point 4A - Avoidance and Minimization. The Design-Build Team shall be responsible for completing the Merger Process.

Public Information

- During the project's construction, the Design-Build Team shall coordinate with the Division 9 Office, the Construction Unit, the Communications Office, and the Public Involvement Group to inform the public of lane closures, construction progress, etc.

Roadway

- The Design-Build Team shall design and construct a six-lane divided facility with a 46-foot median from east of US 52 to US 311 (New Walkertown Road). The Future I-74 - Winston-Salem Northern Beltway shall be designed and constructed to meet a 70 mph design speed for a freeway designed to interstate standards.
- The Design-Build Team shall design and construct new interchanges at NC 66 (University Parkway), NC 8 (Germanton Road), and SR 2211 (Baux Mountain Road).
- The Design-Build Team may develop the Design Noise Report. The Design-Build Team and NCDOT responsibilities for the Design Noise Report will be outlined in the Request for Proposals.

Structures

- The Design-Build Team shall design and construct all structures necessary to complete the project, including but not limited to bridges at the following locations:
 - At NC 66 (University Parkway) and Future I-74 – Winston Salem Northern Beltway
 - At SR 1928 (Stanleyville Drive) and Future I-74 – Winston Salem Northern Beltway
 - At NC 8 (Germanton Road) and Future I-74 – Winston Salem Northern Beltway
 - At SR 1929 (Merry Dale Drive) and Future I-74 – Winston Salem Northern Beltway
 - At NC 66 (Old Hollow Road) and Future I-74 – Winston Salem Northern Beltway
 - At SR 2211 (Baux Mountain Road) and Future I-74 – Winston Salem Northern Beltway
 - On Future I-74 – Winston Salem Northern Beltway over Mill Creek
 - At SR 2216 (Davis Road) and Future I-74 – Winston Salem Northern Beltway
 - At SR 2219 (Dippen Road) and Future I-74 – Winston Salem Northern Beltway

- On Future I-74 – Winston Salem Northern Beltway over SR 2456 (Old Walkertown Road), Norfolk Southern Railroad and SR 2349 (Hammock Farm Road)
- The Design-Build Team shall design and construct all reinforced concrete box culverts, including but not limited to extending / replacing existing reinforced concrete box culverts impacted by the project’s design and / or construction.
- The Design-Build Team shall design and construct all required sound barrier walls and retaining walls.

Railroad Coordination

- The Design-Build Team shall coordinate all railroad design and construction details on Norfolk Southern Railroad right of way, and obtain an executed agreement(s) with the Railroad.

Hydraulics

- The Design-Build Team shall design and construct all storm drainage.
- 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 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.

GeoEnvironmental

- The Department identified 15 sites of concern within the proposed project study area.
- The Design-Build Team and NCDOT responsibilities for geoenvironmental remediation will be outlined in the Request for Proposals.

Environmental

- The Department will obtain a phased US Army Corps of Engineers Section 404 Permit and a NC Department of Environmental Quality (DEQ), Division of Water Resources (DWR) Section 401 Water Quality Certification for the remaining portions of the Winston Salem Northern Beltway, including TIP Project U-2579D, E & F.
- The Design-Build Team shall prepare all documents necessary for the Department to obtain the final design environmental permits and / or permit modifications for this project.
- The Design-Build Team shall complete the Merger Process, including but not limited to obtaining Concurrence Point 4B and Concurrence Point 4C.

Erosion Control

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

Transportation Management

- The Design-Build Team shall develop and implement the 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 required temporary and permanent pavement markings and markers.

ITS

- The Design-Build Team shall design and install ITS infrastructure, including but not limited to conduit and fiber optic communications cable.
- The Design-Build Team shall design, install and integrate ITS communication equipment, including but not limited to Local Area Network Equipment, Dynamic Message Signs and Closed Circuit Television Cameras.

Traffic Signals

- The Design-Build Team shall design and install all temporary and permanent traffic signals.
- The Design-Build Team shall modify existing traffic signals within the project limits.

Pavement Design

- Alternate asphalt and concrete mainline pavement designs, 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

- For all water and sewer facilities in conflict with the project, the Design-Build Team shall design and construct the required relocations.

Utility Rights of Way, 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 Department has begun the right of way acquisition process. The Design-Build Team shall acquire all right of way, control of access, and easements not finalized upon Award of the contract.
- The Design-Build Team shall acquire all additional right of way, control of access, and / or easements required by the proposed design and / or construction methods for those parcels that the Department has completed the right of way acquisition process.
- For properties that require property acquisition for construction of the project, the Design-Build Team shall provide Map Act appraisals, make initial Map Act offers, and attempt to settle the Map Act portion of the claims.

Construction Engineering Inspection (CEI) Scope of Work

- The Department will be responsible for CEI work.