

U-2719 / U-4437 Project Synopsis

Stipend

- A stipulated fee of **\$125,000** 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-2719 / U-4437 will widen I-440 / US 1 to a six-lane divided facility from south of SR 1313 (Walnut Street) to SR 1728 (Wade Avenue), a distance of approximately 6.5 miles. The project will also modify interchanges and replace bridges along I-440 / US 1; and provide grade separations on Beryl Road, Norfolk Southern Railway / North Carolina Railroad / CSX Railroad, NC 54 (Hillsborough Street) at SR 1664 (Blue Ridge Road).
- The project's primary purpose is to provide relief from present and future congestion and provide a higher level of service on I-440 / US 1.

Planning

- The U-2719 Environmental Assessment (EA) was approved on June 23, 2017. It is anticipated that the U-2719 Finding of No Significant Impact (FONSI) will be approved in March 2018.
- The U-4437 Categorical Exclusion (CE) was approved on September 26, 2012.
- Project U-2719 is following the Merger Process. The Department has obtained all necessary concurrence up to Concurrence Point 2A. The Department plans to obtain Concurrence Point 3 and Concurrence Point 4A by February 2018.
- The Design Build Team shall adhere to all environmental document commitments. A copy of the U-2719 EA and U-4437 CE are currently available and will be provided to the short-listed Design-Build Teams. A copy of the U-2719 FONSI will be provided to the short-listed Design-Build Teams once available.

Public Information

- During the project's construction, the Design-Build Team shall coordinate with the Division 5 Office, and the Construction Unit to inform the public of lane closures, construction progress, etc.

Roadway

- From south of SR 1313 (Walnut Street) to SR 1728 (Wade Avenue), the Design-Build Team shall widen I-440 / US 1 to a six-lane divided facility and provide grade separations on Beryl Road, Norfolk Southern Railway / North Carolina Railroad / CSX Railroad and NC 54 (Hillsborough Street) at SR 1664 (Blue Ridge Road).
- The I-440 / US 1 widening 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 interchange modifications at Jones Franklin Road, Melbourne Road, Western Boulevard, Hillsborough Street and Wade Avenue.
- The Design-Build Team shall design and construct a Collector Distributor System between the modified I-440 / Hillsborough Street interchange and the modified I-440 / Wade Avenue interchange.
- The Department will provide the Traffic Noise Report to the short-listed Design-Build Teams. The Design-Build Team shall develop the Final Design Noise Report.

Structures

- The Design-Build Team shall design and construct all structures necessary to complete the project, including but not limited to the following new structures:
 - Bridge on -35CDB- and -30LA- over Beryl Road, Norfolk Southern Railway / North Carolina Railroad / CSX Railroad and NC 54 (Hillsborough Street)
 - Bridge on -353RD- over I-440 / US 1, SR 1728 (Wade Avenue) and Moore Drive
 - Bridge on -35CDB- and -35LA- over SR 1728 (Wade Avenue)
 - Bridge on -353RB- over -35CDB-
 - Bridge on Ligon Street over I-440 / US 1
 - Bridge on Beryl Road over SR 1664 (Blue Ridge Road)
 - Bridges on Norfolk Southern Railway / North Carolina Railroad / CSX Railroad over SR 1664 (Blue Ridge Road)
 - Bridge on NC 54 (Hillsborough Street) over SR 1664 (Blue Ridge Road)

- The Design-Build Team shall replace the following roadway structures, as identified in the Request for Proposals:
 - Bridge on SR 1319 (Jones Franklin Road) over I-440 / US 1
 - Bridge on Athens Drive over I-440 / US 1
 - Bridge on Melbourne Road over I-440 / US 1
 - Bridge on I-440 / US 1 over SR 1012 (Western Boulevard)
 - Bridge on I-440 / US 1 over Beryl Road, Norfolk Southern Railway / North Carolina Railroad / CSX Railroad, and NC 54 (Hillsborough Street)
 - Bridge on -353CDC- and -303LD- over Beryl Road, Norfolk Southern Railway / North Carolina Railroad / CSX Railroad and NC 54 (Hillsborough Street)
 - Bridge on I-440 / US 1 over SR 1728 (Wade Avenue)
- The Design-Build Team shall replace or extend all 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 design and construction details on Norfolk Southern Railway / North Carolina Railroad / CSX Railroad right of way and obtain an executed agreement(s) with the Railroads.

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 Culvert Survey Reports.
- The Design-Build Team shall develop a State 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 has identified five 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 Design-Build Team shall prepare all documents necessary for the Department to obtain the environmental permits for this project. The anticipated required permits include a US Army Corps of Engineers Section 404 Individual Permit; and a NC Department of Environment and Natural Resources, Division of Water Resources (DWR) Section 401 Water Quality Certification.
- Project U-2719 is in the Merger Process used by the environmental agencies and the Department to obtain environmental permits. The Design-Build Team shall complete the Merger Process, including but not limited to obtaining Concurrence Point 4B and Concurrence Point 4C. Project U-4437 is not in the Merger Process; however, the Design-Build Team shall include U-4437 with the U-2719 Merger Process

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 temporary and permanent pavement markings / 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.

Pavement Design

- Alternate asphalt and concrete mainline pavement designs will be provided in the Request for Proposals.
- 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 all supplemental surveys.
- Known existing utilities will be 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 Design-Build Team shall acquire all right of way, easements and control of access required by the proposed design and / or construction.

Lighting

- The Department will provide signed and sealed Lighting Plans.
- The Design-Build Team shall install all lighting.

Construction Engineering Inspection (CEI) Scope of Work

- The Department will be responsible for CEI work.