

I-3306A 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 the Department suspends or discontinues the procurement process prior to the Technical Proposal or Price Proposal submittal date current at the time of the suspension, no stipulated fee will be paid.

Project Description and Purpose

- The I-3306A Design-Build Project in Orange County widens I-40 from I-85 to the Durham County Line, a distance of approximately 11.4 miles. The Project will provide a six-lane facility and modify interchanges, including the I-40 / NC 86 interchange.
- The project's primary purpose is to relieve peak hour congestion on I-40 such that a LOS D or better can be maintained for the 2040 Build condition.

Planning

- The I-3306A Type III Categorical Exclusion was approved on March 29, 2019.
- The Design-Build Team shall adhere to all environmental document commitments. A copy of the I-3306A Type III Categorical Exclusion will be provided to the short-listed Design-Build Teams.

Public Information

- During the project's construction, the Design-Build Team shall coordinate with the Division 7 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

Roadway

- The Design-Build Team shall widen I-40 to a six-lane divided facility with a minimum 22-foot median from I-85 to the Durham County Line. The Design-Build Team shall design and construct the I-40 widening 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 SR 1009 (Old NC 86), SR 1723 (New Hope Church Road) and NC 86 (Martin Luther King Jr. Boulevard)
- The Department will provide a Traffic Noise Report. The Design-Build Team shall develop the Final Design Noise Report based on the final roadway plans developed by the Design-Build Team.

Structures

- The Design-Build Team shall design and construct all structures necessary to complete the project, including but not limited to the structure replacements at the following locations:
 - Bridge on I-40 westbound over SR 1009 (Old NC 86)
 - Bridge on I-40 eastbound over SR 1725 (Millhouse Road) and Norfolk Southern Railway / North Carolina Railroad
- The Design-Build Team shall design and construct bridge widening at the following locations:
 - Bridge on I-40 eastbound over SR 1009 (Old NC 86)
 - Bridge on I-40 westbound over SR 1725 (Millhouse Road) and Norfolk Southern Railway / North Carolina Railroad
- The Design-Build Team shall rehabilitate bridges at the following locations:
 - Bridge on I-85 southbound exit ramp over I-40 eastbound / I-85
 - Bridge on I-40 westbound over I-85
 - Bridge on SR 1006 (Orange Grove Road) over I-40
 - Bridge on SR 1723 (New Hope Church Road) over I-40
 - Bridge on NC 86 (Martin Luther King Jr. Boulevard) over I-40
 - Bridge on SR 1732 (Sunrise Road) over I-40
 - Bridge on SR 1734 (Erwin Road) over I-40
- 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 design and construction details on Norfolk Southern Railway / North Carolina 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 not identified any sites of concern within the proposed project study area.
- The Design-Build Team and NCDOT responsibilities for geoenvironmental remediation, if necessary, 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. The anticipated required environmental permits include a US Army Corps of Engineers Section 404 Individual Permit and a NC Department of Environment and Natural Resources, Division of Water Quality (DWQ) Section 401 Water Quality Certification.
- Project I-3306A 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 Pont 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 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.

Pavement Design

- 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.

Traffic Signals

- The Design-Build Team shall design and install all temporary and permanent traffic signals.
- The Design-Build Team shall modify several existing traffic signals.

Lighting

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

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 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 Design-Build Team shall acquire all right of way, easements and control of access required by the proposed design and / or construction.

Construction Engineering Inspection (CEI)

- The Department will be responsible for CEI work.