

Synopsis
U-5798A, Cumberland County
June 17, 2019

Project Description

The Express Design-Build Project U-5798A, Cumberland County, will widen SR 1102 (Gillis Road) to a four-lane divided facility from north of SR 1007 (Stoney Point Road) to US 401 (Raeford Road), a distance of approximately 1.2 miles. The project will also replace Structure No. 250075 on SR 1102 (Gillis Road) with a new bridge that is approximately 280 feet in length.

Planning

The U-5798 Minimum Criteria Determination Checklist (MCDC) is expected to be approved in August 2019. This project will not follow the Merger Process. The Design Build Team shall adhere to all environmental document commitments. A copy of the U-5798 MCDC will be provided to the short-listed Design-Build Teams upon completion.

Public Information

During the project's construction, the Design-Build Team shall coordinate with the Division 6 Office and the Construction Unit to inform the public of lane closures, construction progress, etc.

Roadway

From north of SR 1007 (Stoney Point Road) to US 401 (Raeford Road), the Design-Build Team shall widen SR 1102 (Gillis Road) to a four-lane divided facility with a 17.5-foot median, and sidewalks that will be cost shared with the City of Fayetteville. Pavement designs and the 25 percent roadway plans will be provided by the Department.

Hydraulics

The Design-Build Team shall be responsible for all hydraulic designs and shall provide a signed and sealed Bridge Survey Reports for the bridge replacement. The Design-Build Team shall be responsible for all storm drainage design, permit drawings and construction and shall obtain FEMA compliance for the regulated floodways.

Permitting

The Design-Build Team shall be responsible for preparing design plan sheets and providing all data necessary for the Department to obtain the environmental permit for the bridge replacement. This will often include a Nationwide Permit 3 or 14 and a Water Quality Certificate.

Structures

The Design-Build Team will be responsible for the design and construction of Structure No. 250075 and any required temporary retaining walls associated with the staging of construction.

Geotechnical

The Department will provide seven (7) borings for this bridge to the Design-Build Teams. The Design-Build Team shall be responsible for all geotechnical recommendations, as well as any necessary supplemental borings, roadway and structural investigations.

Traffic Management

The roadway widening shall occur under traffic and the bridge will be stage constructed. The Design-Build Team will be responsible for Traffic Control Plans as appropriate for the project and it will be detailed in the Request for Proposals.

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

Erosion and Sedimentation Control

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

Signing and Pavement Markings

Pavement marking plans will be the responsibility of the Design-Build Team. Permanent signing on this project will be minimal and will be the responsibility of the Design-Build Team.

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.

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.

Traffic Signals

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

Surveys

The Department will provide initial survey information pre-bid. The Design-Build Team shall be responsible for any supplemental location and construction 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.

Construction Engineering Inspection

CEI will be performed by the Department or its agent.

Provided Materials

The Department will provide surveys, including property ties, geotechnical borings, pavement designs, pre-design hydraulic reports, an environmental document or minimum criteria checklists, bridge inspection reports and 25-percent roadway plans.

Contract Completion Date

As this is a Design-Build project without a Technical Proposal, an overall contract completion date will be set in the contract, with associated liquidated damages. The date will be established to allow for greater flexibility in the Design-Build Team scheduling and completion of the work.

Intermediate contract times, with associated liquidated damages, will be as outlined in the Request for Proposals.

Compensation

To reduce the amount of work necessary to be performed pre-bid by the Design-Build Teams, and to ensure to the greatest extent possible that all Design-Build Teams are bidding on similar designs, the Department will include an estimated bridge length, bridge width, and assumed geotechnical design parameter (e.g., embedment, bearing elevation) in the Requests for Proposals. The Design-Build Team will bid a unit price for these high-level pay item quantities. However, the Department will allow the Design-Build Team to bid a lump sum for all work at the bridge site to enhance the opportunity for innovation in the procurement.

It is likely that the bridge length, etc. will change from that estimated in the contract. In such event, a supplemental agreement will be entered into for the additional (or lesser) bridge length, foundation depth, etc. from those quantities placed in the Request for Proposals.

A lump sum item will most likely be included to provide for all design work and construction work including but not limited to roadway, approach slabs, supplemental investigations, drainage, erosion control, signals, traffic control, etc.