

Synopsis
Division 6, Cumberland County Bridge Replacement
November 15, 2016

General

This project will replace an existing multi-barrel culvert (structure #250252) on NC 53 in Cumberland County with a bridge. This is an emergency project as part of the recovery effort from Hurricane Matthew.

Planning

The Department is currently preparing a Low Impact Project Data Sheet or a Minimum Criteria Checklist for the project. The Design-Build Team will be responsible for providing impact quantities to complete these environmental documents.

Roadway

Roadway plans will be the responsibility of the Design-Build Team. Pavement designs 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 Report. 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.

The Department will provide information prior to issuance of the Final Request for Proposals to establish the type and size of bridge to be bid.

Structures

The Design-Build Team will be responsible for the design and construction the bridge. Standard bridge plans will be made available and may be used, if the final structure type is determined to be a cored slab or box beam bridge. However, the design must be signed and sealed by the Design-Build Team.

Geotechnical

The Department will provide 2 to 4 borings per 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.

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 these projects will be minimal and will be the responsibility of the Design-Build Team.

Right-of-Way and Utilities

No acquisition of right of way is anticipated.

The Design-Build Team will be responsible for the coordination of all utility relocations necessary for construction. It is anticipated that the cost of utility relocations will be paid by the utility owners or the Department.

Surveys

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

Construction Engineering Inspection

CEI on all contracts will be performed by the Department or its agent.

Provided Materials

The Department will provide surveys, geotechnical borings, a pavement design, and low impact data sheets or minimum criteria checklists, a culvert inspection report, and field scoping meeting minutes.

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 parameters (e.g. point of fixity, embedment, bearing elevation) in the Requests for Proposals. The Design-Build Team will then bid a unit price for these high level pay item quantities.

It is possible that the bridge length 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 other ancillary construction work including but not limited to minor approach work, approach slabs, supplemental investigations, drainage, erosion control, traffic control, etc.