

## Project Synopsis

The Design-Build Project consists of replacing ten (10) low-impact bridges located in Bladen, Columbus and Robeson Counties. Each of the bridges will be replaced in place with off-site detours. The primary purpose of this project is to begin to replace a large number of structurally deficient bridges in North Carolina. Bridges to be replaced are shown in the following table.

County	Str #	Route	Across
Bladen	080062	SR 1704	White Creek
Bladen	080172	SR 1728	Carver Creek
Columbus	230038	SR 1141	Gum Swamp
Columbus	230046	SR 1932	Sand Pit Branch
Columbus	230123	SR 1005	Beaverdam Swamp
Columbus	230161	SR 1351	Gapway Swamp
Columbus	230207	SR 1585	Pine Log Swamp
Columbus	230301	SR 1005	Ironhill Branch
Robeson	770275	SR 1005	Ten Mile Swamp
Robeson	770320	SR 1709	Little Marsh Swamp

All the bridges for this project are on the sub regional tier. A general overview of the Roadway, Hydraulics, Geotechnical, and Structures Scope of Work is specified in the Sub Regional Tier Design Guidelines for Bridge Projects dated February 2008 and the Low Impact Bridge Replacement Process dated January 2010. An electronic copy of these documents is located at:

<http://www.ncdot.org/doh/preconstruct/highway/structur/subregional/STGFeb2008.pdf>  
<http://www.ncdot.gov/download/projects/ncbridges/lowimpactbridge/finalmanual.pdf>

The Design-Build Team's replacement bridges are required to meet the requirements of these Guidelines. Unless otherwise noted in the Request for Proposal, the Design-Build Team shall follow the Low Impact Bridge Replacement Process.

The Department is currently preparing a Low Impact Project Data Sheet (serves as the Programmatic Categorical Exclusion (PCE)) for each of the bridges.

The Design-Build Team shall be responsible for all hydraulic design and shall provide signed and sealed Bridge Survey Reports for all structures. The Design-Build Team shall be responsible for all storm drainage design, State Stormwater permit, and construction and shall obtain FEMA compliance for the regulated floodways.

The Department will provide 2 to 3 borings per bridge to the Design-Build Teams. The Design-Build Team shall be responsible for all geotechnical recommendations, as well as supplemental roadway and structural investigations.

The Design-Build Team shall be responsible for preparing design plan sheets and providing all data, other than the low impact bridge data spreadsheet, necessary for the Department to obtain the environmental permit for each bridge replacement. These will generally include the Nationwide Permit 3 and Water Quality Certificate

The Department will provide partial surveys and Lidar (Light Detection and Ranging) for each of the bridges. The Design-Build Team shall be responsible for supplemental surveys.

The Design-Build Team shall be responsible for the coordination of all utilities in conflict with the project. The Department will provide list of utilities and contact person for each bridge projects.

The Design-Build Team will be responsible for designing and constructing the bridge approaches to tie the new structures into the existing pavement in accordance with Low Impact NCDOT design standards and policies. The pavement design will be provided by the Department.

The Department or others will be responsible for Construction Engineering Inspection (CEI) work.

The replacement structure is anticipated to be built within the existing right of way, if applicable, the Department will be responsible for any Right of Way acquisition.