

PROJECT DESCRIPTION

State Project No. 0101-0119
Federal Aid Project No. 0201(001)
Culvert Replacement on Route 201
Town of North Stonington

PROJECT LOCATION

This project is located on Route 201 (Cossaduck Hill Road) in North Stonington from Mile Point 8.74 to 8.85, and extends approximately 90 feet into Billings Lake Rd. The project was initiated to replace an existing deteriorated twin 48-inch corrugated metal pipe culvert. The culvert is located approximately 150 feet downstream of the Blue Lake/Anderson Pond dam and conveys Ashwillet Brook under Route 201.



The most recent traffic count on the subject section of Route 201 was collected in 2024 and yielded an annual average daily traffic volume of approximately 1,300 vehicles per day and an 85th percentile speed of 50.3 MPH. The posted speed limit is 40 MPH.

PURPOSE AND NEED

The purpose of this project is to replace the existing culvert and adjoining stormwater drainage structures. The culvert needs to be replaced because the existing pipes have degraded to the point where section loss and joint separation are causing washouts and the formation of voids. CTDOT Maintenance frequently patches the pavement over the culvert, but the roadway structure needs to be fully repaired.

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The existing 52-foot long 48-inch diameter corrugated metal pipes will be replaced with one 51’-10” long, 18-foot wide by 7-foot-high reinforced concrete box culvert embedded with 1 to 2 feet of native streambed material. Reinforced concrete wingwalls and erosion protection will be constructed at the inlet and outlet of the proposed culvert. The proposed structure has been designated as Bridge No. 07156.

The vertical alignment of Route 201 will be modified and approximately 500 feet of highway will be fully reconstructed to accommodate the proposed culvert, which is approximately 3 feet taller than the existing one. Route 201 will be widened by approximately 25 feet over the culvert to allow adequate space for turning movements and sight lines from Billings Lake Road and potential future sidewalks. The existing stormwater drainage pipes, catch basins, and outlet endwall along Billings Lake Road will be replaced. The existing roadside safety will be replaced with MASH-compliant metal beam rail, which will attach to the parapets of the proposed culvert.

The existing culvert will be removed, and the proposed culvert will be constructed in an enclosed cofferdam, while Route 201 is closed to traffic. Route 201 traffic will be detoured for six weeks to complete this work. Temporary signalization will be used to maintain traffic on Billings Lake Road during the closure.

ENVIRONMENTAL

The structure replacement will create temporary and permanent impacts to wetlands, Ashwillet Brook and the floodplain (FEMA Flood Zone A). Coordination and permitting is required with CTDEEP Fisheries, US Fish & Wildlife, CTDEEP LWRD, and US Army Corps of Engineers.

PROJECT SCHEDULE

The current project schedule is as follows:

FDP: 04/26/2028

DCD: 06/07/2028

ADV: 08/23/2028