



FACT SHEET

PROJECT: Replacement of County Bridge E-243 Van Lieus Road over Back Brook

LOCATION: Township of East Amwell

DESCRIPTION: Bridge Reconstruction Project

LOCATION: Van Lieus Road near intersection with Back Brook Road

BEGINNING LIMIT: Approximately 400 ft East of the Bridge

ENDING LIMIT: Approximately 450 ft West of the Bridge

TOTAL PROJECT LENGTH: Approximately 1,000 Feet

BRIEF DESCRIPTION OF PROJECT

Hunterdon County proposes the replacement of existing Bridge E-243 carrying Van Lieus Road over Back Brook in East Amwell Township, New Jersey. The existing bridge is a single span Warren (with verticals) pony truss with rolled steel floor beams, stringers and asphalt filled corrugated steel deck. The overall structure length is approximately sixty-three (63) feet. The curb-to-curb width is approximately 13.6 feet allowing only one direction of traffic at a time. The abutments and wingwalls are comprised of concrete and stone masonry. The approach roadways are approximately twenty-six (26) foot-wide and the bridge is located at the bottom of a steep grade on Van Lieus Road near the intersection with Back Brook Road.

The existing Bridge E-243 was originally built in early to mid-1900's and was initially constructed with timber decking. The timber deck was replaced with an asphalt and corrugated metal deck in 1973. At this time, the bridge has been rated with a Sufficiency Rating of 19.5. The superstructure and substructure are both in poor condition.

The bridge is classified as both structurally deficient and functionally obsolete and is therefore recommended for complete replacement. Additionally, the existing bridge railing, approach guide rails, end terminals and transitions are all noted as being substandard in accordance FHWA requirements. Superstructure issues include heavy corrosion and section loss to steel members, including complete loss of steel at some locations of the stringers and floor beams. Substructure issues include heavy scaling and deterioration of the concrete in the south abutment breast wall and missing mortar in the stone substructure. The northwest wingwall exhibits a large area of bulging and missing stones. The County continues to make repairs to the structure in order to keep the bridge safe and open to traffic. The bridge is currently load posted for 10 tons.

The bridge is not situated within a National or State Registered Historic District and the NJDOT Historic Bridge Inventory lists the bridge as not individually eligible for inclusion within National Register of Historic Places. The New Jersey Historic Preservation Office confirmed that this structure is not eligible for listing on the New Jersey and National Registers of Historic Places.

This project will involve full bridge replacement, incidental modifications to approach roadways, environmental permitting, cultural resources investigation, and utility relocation.