



## EXECUTIVE SUMMARY

The project involved the replacement of the SR 2103, Pineville Road Bridge over Pidcock Creek in Buckingham Township, Bucks County, PA. The original structure consisted of a substandard 14'-9" curb-to-curb width that provided for only one lane before it was closed in June 2007 due to severe structural deterioration. The closure forced local residents and emergency response vehicles to detour around the closed bridge, increasing commute times. There was significant public coordination and involvement to design a functional bridge that met current safety standards, but remained unobtrusive to the local rural environment.

At the request of Buckingham Township, the new bridge was designed to be 20'-0" wide, constructed along the same horizontal and vertical alignment, and accommodate two 10'-0" wide travel lanes. The architectural treatments on the bridge were chosen to match similar patterns within the township along with a color scheme that blended the bridge into the environment. New cantilevered abutments placed behind the original substructure along with the removal of the bridge pier provided an increased opening to improve the hydraulic performance and minimize impacts to the surrounding properties. The new superstructure consisted of two 28F NEXT beams and an 8" concrete deck. The approach roadway reconstruction was limited to only that which was required to replace the bridge. Based on a Turnback Agreement between the Department and Township, ownership of the bridge and the 500'-0" section of the reconstructed roadway was turned over to Buckingham Township after construction was completed.