

Executive Summary

State Street over Jacoby Creek Bridge Replacement Category H

When a bridge providing access to the Borough of Portland was closed due to structural deficiencies, residents were concerned. Without the bridge, portions of the borough became inaccessible during major flooding events. A team led by Erdman, Anthony Associates, Inc. was retained to design a replacement for the bridge, and successfully addressed a variety of challenges at the project site. Space was limited due to difficult terrain, nearby residences, and a mill dam just upstream of the structure. A temporary road and causeway were designed to provide contractor access during bridge demolition and construction while minimizing impacts to the creek and surroundings. During design, Erdman Anthony also saw opportunities to reduce the construction cost of the new bridge, including increasing the span length to decrease the size of the south abutment, and adapted their design approach to realize the savings. As a result of these efforts, Portland Borough residents were provided with a reliable link to the borough even during flood events, and the design team was commended by Pennsylvania Department of Transportation District 5-0 for exceeding its expectations throughout the project. The State Road over Jacoby Creek bridge replacement is an excellent example of the Pennsylvania Department of Transportation and its design team listening to the needs of the community and delivering a cost-effective bridge replacement that improves transportation safety and connectivity.