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Barbara Bogo
Oldcastle Precast
(888) 965-3227
Barbara.bogo@oldcastle.com

Mass DOT Replaces Savoy Road Bridge over the Chickley River Using Accelerated Bridge Construction

Bridge substructure is composed of all precast concrete bridge components for fast-track construction

HAWLEY, Mass. (December 2017) — Partnering with the Massachusetts Department of Transportation, engineering firm McFarland Johnson and general contractor Clayton D Davenport Trucking, Oldcastle Precast Rehoboth, Mass. provided the precast concrete bridge components for the entire substructure, besides the footings, to replace the Savoy Road Bridge over the Chickley River.

The MassDOT project consisted of replacing the existing bridge with a new bridge using concrete NEXT beams and precast concrete substructures. The bridge carries a 17-foot vehicular roadway, with curbs on both sides of the bridge. The project limit extends approximately 200 feet north and 250 feet south of the bridge. Approach work consisted of reconstruction of the roadway guardrail.

In all, Oldcastle Precast Rehoboth manufactured ten abutment stems - (5' x 4' x 11'-6" tall); four abutment caps - (12' x 4' x 2' tall); four curtain walls - (5' x 4' x 18'-9" tall); and eight wingwalls- (5'-6" x 3'- X 18' tall) to construct the replacement bridge on Savoy Road.



The use of precast concrete bridge components allowed for the rapid construction of the bridge substructure. The bridge abutments were delivered, installed, and grouted over a 2-day span.

Accelerated Bridge Construction (ABC): ABC is bridge construction that uses innovative planning, design, materials, and construction methods in a safe and cost-effective manner to reduce the onsite construction time that occurs when building new bridges or replacing and rehabilitating existing bridges.

ABC improves site constructability, total project delivery time, and work-zone safety for the traveling public. In addition, ABC reduces traffic impacts, onsite construction time, and weather-related time delays.

A common reason to use ABC is to reduce traffic impacts because the safety of the traveling public and the flow of the transportation network are directly impacted by onsite construction-related activities.

About Oldcastle Precast: Oldcastle Precast is the clear choice for building products and services for North American infrastructure projects. We are a leading provider of engineered product solutions nationwide to a number of market sectors including: Water, Communications, Energy, and Transportation.

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