

Reconstruction of New Jersey Route 18

# THE ARCHWAY TO RENEWAL

New Brunswick, N.J.



## The George Street Bridge

The George Street Bridge is the marquee of the project. The design and construction methodologies implemented on this innovative structure have elevated industry standards by combining existing technologies in ways never done before. The structure is one of the largest of its kind in North America. Designed as a precast concrete arch bridge measuring 593 feet long and 60.7 feet wide, it features eight arches, each with a span of 66 feet and a rise of 20 feet. This height and weight presented unique challenges. The arches would have required approximately 12,330 cubic yards of overfill material, making the structure massive. Instead, Gannett Fleming bridge engineers devised an innovative solution: combine precast concrete arches with a lightweight cellular concrete overfill. The George Street Bridge is the first of its kind in the world to do so. The new boat ramp, picnic pavilion, and parking area in the expanded Boyd Park along the Raritan River have the George Street Bridge arches as a backdrop.