

PROJECT DESCRIPTION

Lewiston-Queenston Bridge Approach over Rt. 104

**Location:**

Lewiston, New York

Client:

Oakgrove Construction, Inc.

Client Contact:

Mr. Kenneth H. Rawe, Jr., P.E.
(716) 652-2200

Compacting Backfill behind the Pre-Cast Concrete Retaining Wall Alternative

Oakgrove Construction, Inc. (Oakgrove), the general contractor hired to make major improvements to the Lewiston-Queenston Bridge and its approaches, engaged MMCE to redesign two retaining walls for the bridge approaches on the United States side of the bridge. The approaches to the Lewiston-Queenston Bridge cross over New York State Rt. 104. The project plans included two new retaining walls at the bridges over Rt. 104. These walls were designed as drilled soldier piles with pre-cast concrete panels inserted between the piles.

Oakgrove proposed to substitute the specified soldier pile retaining walls with pre-cast concrete block retaining walls and requested MMCE to design them. MMCE reviewed the ground conditions, the specified design and the properties of the proposed pre-cast units. We then redesigned the walls using the pre-cast blocks following AASHTO standards.

Oakgrove submitted our design to the bridge commission engineers, who then approved it as an acceptable alternative to the specified design.