

PROJECT

Leominster Bridge Strengthening
Leominster, Massachusetts

CLIENT

CLS Cintec America, Inc.
Washington, DC

PROJECT DESCRIPTION

Atkinson-Noland & Associates worked with Cintec North America and Gifford and Partners (U.K.) to evaluate and strengthen the historic Leominster Bridge in Leominster, Massachusetts. The ARCHTEC method of strengthening was chosen to add load capacity to the bridge to bring it into conformance with current bridge

requirements. The strengthening involves the insertion of large stainless steel anchors tangent to the intrados of the arch. This provides tensile capacity in the portions of the arch where hinge mechanisms are likely to form. The anchors are drilled in from the roadway with minimal disruption to traffic and when the installation is complete, the anchors are invisible.



The Leominster Bridge was constructed in 1873 and spans the North Nashua River in Leominster, Massachusetts. The bridge has two equal spans of approximately 40 feet

SERVICES PROVIDED BY ATKINSON-NOLAND

- On-site condition survey of masonry arch bridge
- Acquisition of detailed geometry of the bridge using survey equipment
- Quality assurance during anchor installation and masonry repairs



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