

Flood Mitigation / Bridge Replacement Project

High Road over North River
NHDOT Br. 063/045
Lee, NH



The existing High Road Bridge was a 31-foot span by 16-foot wide steel beam bridge with a corrugated metal deck founded on mortared stone masonry abutments. The roadway and bridge were subjected to frequent flooding and roadway damage. The Town of Lee desired to replace the bridge to prevent future damage at this location.

QCC performed hydraulic analyses and designed a longer-span bridge structure with a raised roadway profile to provide flood mitigation along High Road. The replacement bridge is a prestressed concrete voided slab superstructure that spans 45 feet and is founded on cast-in-place concrete abutments with steel H-piles due to compressible soils. The project included 775 feet of roadway reconstruction and installation of approximately 330 feet of precast concrete modular retaining walls on the easterly approach to minimize wetland impacts.

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This bridge replacement project was funded by the Town of Lee and the New Hampshire Department of Transportation through the Municipally Managed Bridge Aid Program. The project was completed in the spring of 2012.



QUANTUM CONSTRUCTION CONSULTANTS, LLC