

ROUTE 5 WATER MAIN IMPROVEMENTS

TOWN OF WINDSOR, VERMONT



Highway Crossing



Route 5 Water Main Construction

The Town of Windsor Water Department was downgraded with a Temporary Permit to Operate (TPO) due to the deficiency of low water pressure during fire flow demand. Dufresne Group completed a water system evaluation report that recommended improvements to resolve the TPO conditions and created a Long Range Plan.

The distribution system improvements resolved low pressure deficiencies, improved fire flows and replaced aged water main. Completed in 2009 and 2010 with funding under the American Recovery and Reinvestment Act, the improvements included replacement of undersized piping on Route 5, Weston Heights and Birch Heights with 12,600 lf of 12-inch main and 5,000 lf of 8-inch water main. The project included an automatic control valve (to ensure the North Tank has active water exchange during freezing conditions) and 600 remote read water meters.

Due to the ARRA stimulus, the project was fast tracked, with design completion and a funding package assembled within 6 months of the Preliminary Engineering report completion.

KEY FEATURES:

- Favorable construction bids allowed completion of additional work within the project budget:

Added Project Components

- 1,500 lf of 8" sewer main
- 3,900 lf of 12" diameter water main
- 4,500 lf of 8" diameter main
- Reclamation and paving of three streets.

- Joint funding package:

USDA RD Loan	\$2,197,000
USDA RD Grant	\$1,771,000
DWSRF Loan	\$2,000,000
Total Project Cost	\$5,968,000