DUFRESNE GROUP
CONSULTING ENGINEERS

EAST MANCHESTER ROAD WATER MAIN

MANCHESTER, VERMONT

The Town of Manchester, Vermont was experiencing several water main breaks along a 7,000 linear foot section of water main each winter. The Town Water Board decided to replace antiquated 4-inch diameter cast-iron water main with 12-inch ductile iron water main. The new 12-inch diameter main creates a strong transmission main system to distribution storage.

The water main design was placed on a fast track so that a bond vote could be warned for March 2004. The final design was initiated in mid-October 2003 with the State Water Supply Permit to Construct authorized in mid-February 2004.

The replacement reduces significant water losses from water main breaks and provides a needed loop of transmission main.

KEY FEATURES

- Significant hydraulic capacity increase.
- Eliminates water main breaks.
- Provides a transmission main loop.

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