

CASE STUDY

SaniTite® HP Provides Savings, Stiffness for Railway Slipline

Durham, NH

OWNER

City of Durham, Durham, NH

INSTALLATION DATE

Summer 2011

ENGINEER

Department of Public Works, Durham, NH

PRODUCTS

200' (60 m) of 60" (1500 mm) SaniTite® HP pipe

CONTRACTOR

Red Berry Company, Inc., Livermore, ME

CHALLENGE

A 99-year-old cast-in-place box culvert carrying flow beneath an active railway required rehabilitation. The project was complicated by its location on a brownfield site, where contamination from above limited excavation and handling of materials. Adding to the challenge, the culvert was buried under 17' (5 m) of earth weight and subjected to continuous loading from passing rail cars overhead.

SOLUTION

Advanced Drainage Systems collaborated with the City of Durham's Department of Public Works to develop a solution. The city selected 200' (60 m) of 60" (1,500 mm) SaniTite HP polypropylene pipe for the rehabilitation. The pipe was sliplined through the existing box culvert and maintained unobstructed creek flow. SaniTite HP's triple-wall construction provides a stiffness of 46 psi (317 kPa) and is rated to withstand E80 railroad loading.



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By choosing SaniTite HP, the project realized significant savings—nearly \$80,000 below the original \$180,000 estimate. Red Berry Company, Inc. installed the full length of pipe with a four-person crew in just two hours, further contributing to the project's efficiency.

PRODUCT DESCRIPTIONS

SaniTite HP couples advanced polypropylene resin technology with a proven 12"-30" (300-750 mm) dual wall and 30"-60" (750-1500 mm) triple wall profile design for superior performance and durability. SaniTite HP meets and exceeds typical standards for pipe stiffness and joint integrity. The polypropylene pipe is an inert material that is chemically resistant to hydrogen sulfide gas and sulfuric acid concentrations typical of sanitary sewers.

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