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RESEARCH UPDATE

U96-26

INSITUFORM PIPE LINING PROCESS

REFERENCE:

Work Plan 91-R-9, U96-1

PURPOSE:

To evaluate the performance of the INSITUFORM pipe lining process for the in-place rehabilitation of failing culverts of all sizes, without requirement for excavation and/or removal of the existing pipe. The chief advantages claimed by the manufacturer are economy and elimination of the need for road closures and detours.

HISTORY:

The INSITUFORM culvert liners were installed in the late fall of 1992 at three locations: MM 73.57 in the town of Richmond on I89, MM 4.65 on VT 22A in the town of Bridport, and MM 0.23 on VT 22A in the town of Addison. Installation and cost information is available in Report U96-1.

STATUS:

All three repaired culverts were inspected in October of 1996. The culvert lining in Bridport appears as reported in 1995 except that the pipe is elliptical in shape measuring approx. 1.55 m from top to bottom and approx. 2.01 m from side to side at the center of the culvert. It is unclear if this condition existed at the time of the last inspection. The culvert in Addison appears as last reported with no further signs of deterioration. The culvert in Richmond also appears as reported; however, no irregular texture or cracking was noted at this time.

FOLLOW-UP:

All three of the INSITUFORM installations will continue to be inspected on an annual basis until supportable conclusions can be offered as to the service life of the product.