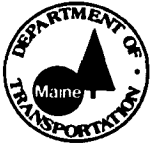


**STATE OF MAINE**  
**DEPARTMENT OF TRANSPORTATION**



TRANSPORTATION RESEARCH DIVISION  
BUREAU OF PLANNING, RESEARCH & COMMUNITY SERVICES



**DATE May 1998**

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**EXPERIMENTAL CONSTRUCTION 92-34**

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**FIELD TRIAL OF GRAVEL STABILIZATION METHODS  
ROUTE 1, CYR-VAN BUREN, MAINE**

**5TH INTERIM REPORT**

**INTRODUCTION**

This experimental construction project was developed, designed, and inspected by personnel from the University of Maine, Civil Engineering Staff. The experimental project was constructed on and as a part of Project #2586 00. This was a complete reconstruction project 3.54 km (2.2 mi) in length. The experimental section contains 6 experimental base types and is 310 m (1020 ft) in length. The experimental section began at Station 1028+00 and ended at Station 1038+20. The test section consisted of 60 m (200 ft) segments of soil cement, asphalt, calcium chloride, modified, standard and one 6 m (20 ft) untreated section. The stabilized and control sections were located as follows:

Soil-Cement Stabilized	STA 1028+00 to 1030+00
Modified Subbase Control	STA 1030+00 to 1032+00
Asphalt Stabilized Section	STA 1032+00 to 1034+00
Untreated Section	STA 1034+00 to 1034+20
Calcium Chloride Stab Section	STA 1034+20 to 1036+20
Standard Subbase Control	STA 1036+20 to 1038+20

The Soil Cement Stabilized section is a mixture of Modified Subbase (mentioned later) and 6 percent by weight of Type I Portland Cement.

The Modified Subbase Control section is standard subbase aggregate MDOT specification 703 06b Type D with a 5.1 cm (2 in) maximum aggregate size. This aggregate was used on all stabilized sections to facilitate blending of each treatment.

The Asphalt Stabilized section is a mixture of modified subbase and 4.5 percent of MS-4 Emulsified Asphalt.

The Untreated section consists of Modified Subbase.

The Calcium Chloride Stabilized section is a mixture of Modified Subbase and 2.8 l/m<sup>2</sup> (0.75 gal/yd<sup>2</sup>) of 35 percent liquid calcium chloride solution.

The Standard Subbase Control section consists of standard subbase aggregate MDOT specification 703 06b Type D with a 15.2 cm (6 in) maximum aggregate size.