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Date: October 3, 1996 Page: 1 of 2

# RESEARCH UPDATE

Update U96-22

# PERFORMANCE GRADE ASPHALT CEMENT WATERFORD, VT

(INTERIM REPORT)

#### REFERENCE:

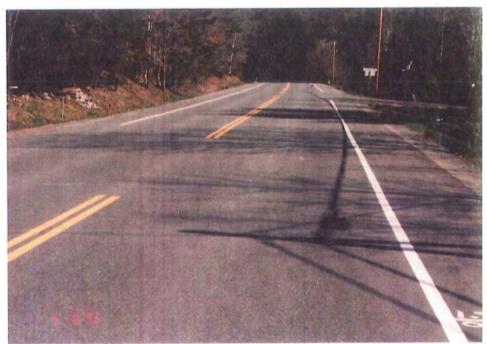
WP 94-R-4, Report 95-4

## **HISTORY**:

During the summer of 1994, 4.56 km of VT 18 from MM 0.034 to MM 2.868 in Waterford was rehabilitated. The experimental asphalt cement selected for this project was SHRP PG 52-40, with standard AC-20 utilized as the control. Project work also included full depth base reclamation and drainage improvements. Preconstruction and construction observations were documented in Report 95-4. This report documents the condition of this highway after 2 winter maintenance seasons.

## STATUS:

The project was inspected in May 1995 and June 1996. Only one site had significant cracking and rutting. This site, at MM 2.20, in the AC-20 overlay section, exhibited 84 m/100 m of cracking and 6.4 mm of rutting. It is unclear why it appears only this site has been affected. One other test site had only 9 m/100 m of cracking. All other locations exhibited very little or no distress. It is also interesting to note that almost all of the cracks and ruts occurred in the southbound lane. Despite these minor exceptions, both the experimental and the control areas appear to be in excellent shape.



Reclaimed Base with PG 52-40 asphalt cement VT 18, Waterford, MM 1.73

#### **FOLLOW UP:**

The project will continue to be monitored annually, with an emphasis on identifying differences between the sections with standard and PG asphalt cements.