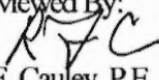



Reviewed By:

 R.F. Cauley, P.E.
 Materials and Research
 Engineer



Prepared By:

 C. Graham
 Date: 9/13/95
 Page: 1 of 2

RESEARCH UPDATE

Update U95-9

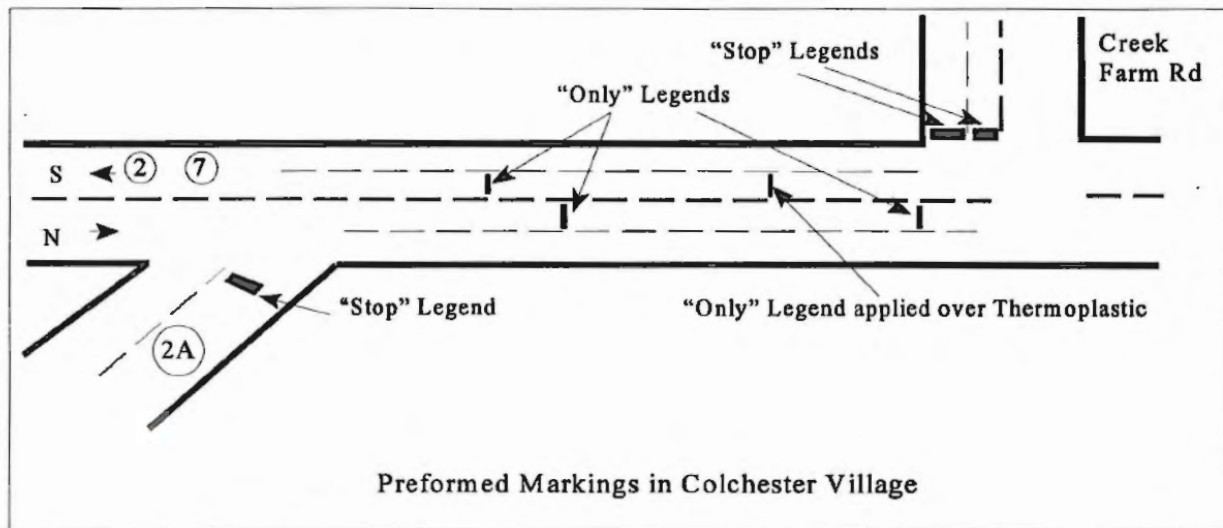
Preformed Thermoplastic Pavement Markings

REFERENCE:

Research Updates U93-7, U94-6

HISTORY:

On September 14, 1993, preformed thermoplastic pavement markings were installed as legends on Routes 7 and 2A in Colchester. The material was supplied by Flint Trading, Inc. of Thomasville, NC. Four legends were installed over pavement that had been ground to a depth of 6mm (1/4"). Another was placed over an existing thermoplastic legend. The five legends were then placed on the pavement and heated with a propane torch to adhere them to the asphalt. These legends were inspected in March, 1994, and found to be in very good condition.



STATUS

On August 23, 1995, the markings were inspected and found to have not weathered the previous winter well. A great deal of loss was noted on each of the legends with some letters almost completely gone (see pictures 1-3). Most of this loss can be attributed to traffic wear from approximately 6500 vehicles per day. Poor bond coupled with snowplow operations during the winter maintenance season could also account for some loss of material. The loss noted in Picture 2 (the marking applied over thermoplastic) could be due to a poor bond to the material that was in place before application; however, there appears to be no significant difference.

FOLLOW-UP:

This material will continue to be evaluated until the material is replaced or painted over..

Figure 1 --
"Stop" on Creek Farm
Road



Figure 2 --
"Only" on US 2 and 7
This marking applied
over thermoplastic
material



Figure 3--
"Stop" on VT 2A

