

2019 Research Showcase

Experimental Features

& STIC Annual Meeting

PROJECT TITLE

Experimental Features

STUDY TIMELINE

Ongoing

VTRANS CONTACTS

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This fact sheet was prepared for the 2019 VTrans Research Showcase & STIC Annual Meeting held at the Dill Building in Berlin, VT, on September 11, 2019 from 8:30 am– 1:00 pm.

Fact sheets can be found for additional projects featured at the 2019 Symposium at <http://vtrans.vermont.gov/planning/research/2019showcase>

Additional information about the VTrans Research Program can be found at <http://vtrans.vermont.gov/planning/research>

Additional information about the VTrans STIC Program can be found at <http://vtrans.vermont.gov/boards-councils/stic>

Introduction

The Experimental Features project covers a broad range of tests conducted by the Vermont Agency of Transportation. These installations of new experimental designs function as a full-scale demonstration and trial of the innovative technology, allowing for ongoing testing and observation of the performance in Vermont.



Methodology

Each project in the Experimental Feature program is tested regularly and monitored for change or deterioration. An important aspect of the study is to determine if the new feature will provide a better investment, cost savings, or performance improvement over the existing practice for the state.

2019 Activities

Final Reports:

- 2018-03 Pavement Marking Comparison Study—US Route 302 Bike Lane Markings
- 2018-05 Pavement Marking Comparison Study—I-89 Liquid Markings
- 2018-06 Assessment of the 40" Wide Paving Skid Box for Preventative Maintenance
- 2018-07 Assessment of Super-Slab, a Precast Concrete Bridge Approach Slab
- 2018-08 Assessment of the Composite Arch Bridge
- 2019-01 Assessment of the Jahn Permeable Mortar System in a Historic Bridge Abutment Application
- 2019-04 Assessment of the HAWK Crosswalk Traffic Signal

- 2019-07 Assessment of the BDM Waterproofing Membrane System
- 2019-09 Assessment of the Poly-Carb FlexoGrid Bridge Deck Overlay System

Two additional reports for RAS in Shoulders and Eliminator Membrane have been drafted.

Potential Impacts and VTrans Benefits

Experimental Features projects help prove the value of new techniques and materials in Vermont's transportation infrastructure. These real-world tests help show the potential for adoption into regular use, and advance the practice at VTrans.



HAWK Crosswalk Traffic Signal

