



Summary Report
2001 State Police Survey of
Highway Hazard Locations

Traffic Operations, Traffic Safety Unit

February 2002

2001 State Police Survey Report

The Vermont Agency of Transportation (VTrans) performs several activities through its Safety Program that are aimed at improving safety on the existing roadway system. Among these is the review of problem locations identified by the State Police through an annual survey.

As for the review of High Accident Locations, once a problem has been identified, possible treatments are evaluated from low-cost safety measures and/or medium to major investment alternatives. Low-cost improvements consist typically in the applications of traffic control devices such as signs, pavement markings, and hazard beacons and in the low-cost modification of traffic signals including signal timing changes, and possibly loop cutting and signal head addition/alteration. A major improvement would be, for example, improving sight distance by altering the vertical alignment of a roadway. The need for a major improvement does not preclude the application of a low-cost treatment. Appropriate actions and recommendations for either low cost or major improvements are made to the proper constituency.

Reported below are the recommendations made as a result of the review of the Winter 2001 State Police Survey. For each location, the report identifies the State Police Field Station who reported the locations, and lists the Agency's past projects and past work orders, as well as future planned projects. Because some of the information contained in this report (Past Projects, Past Work Orders, Past Signal Work, Future Projects) was obtained by linking to databases maintained by other sections/units of the Agency, the Traffic Safety Unit is not responsible for the accuracy of the data. In addition, it is possible that past or future projects be not reported because queries may not have been successful due to missing data.

Understanding the State Police Survey Report

1	2	3	4	5	6
Beth-3	I-89 SB		Randolph	32.050	32.300

7 *Past Projects*

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
8 87A001 87A002	IM IR 089-1(11) IM 089-1(12)	ROADWAY PROJECTS INTERSTADGES	11 10/07/1996	12 01/07/1994 03/30/1990
	9	10		

13 *Past Work Orders*

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
14 00-228 00-386	15 08/02/2000 11/30/2000	16 09/20/2000	17 Slippery when wet Slippery when wet

18 *Future Projects*

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Possible Construction Date</i>
19 87A002 99A200	20 IR 089-1(12) IM 089-1(22)	INTERSTATE PAVING 21	2003 2002 22

23 *State Police 2001 Survey*

<i>Recommendation</i>	<i>Description</i>
24 T Shop	Add Slippery when wet sign + distance plate (wo 00-228). Sign was moved to mm 32.45 from 32.30 per wo 00-386. 1/2 distance plate replaced 2000 feet distance plate.

Understanding the State Police Survey Report - Key to Numbers

1 Location Number

Beth-1	Bethel Field Station location # 1
Brad-1	Bradford Field Station location # 1
Derb-1	Derby Field Station location #1
Midd-1	Middlebury Field Station location # 1
Middlesex-1	Middlesex Field Station location # 1
Will-1	Williston Field Station location # 1

2 First Road

3 Second Road

4 Town Name

5 From Mile Marker, First Road

6 To Mile Marker, First Road

7 Completed Past Projects from PPMS

8 PIN Number

9 Project Name

10 Project Category

11 Project Completed Date

12 Project Last Bid Date

13 Past Work Orders from Traffic Operations

14 Work Order

15 Work Order Date Issued

- 16** Work Order Completion Date
- 17** Work Order Description
- 18** Planned Future Projects from PPMS
- 19** PIN Number
- 20** Project Name
- 21** Project Category
- 22** Possible Construction Date
- 23** Recommendation
- 24** Responsible Agency, e.g., Town, Tshop (Traffic Shop), TrafDesign (Traffic Design)

State Police Survey 2001

Beth-1 US 5 VT 12 Hartland 1.560 1.640

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
92C074	STP 9328(1)S	PAVING	V012-	10/27/1992	

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
97-106	4/29/97	05/19/97	Left turn yield
97-287	10/10/97	10/24/97	Ped Xing Signs
93-108	04/01/93	done	Remove Stencil
93-107	04/01/93	09/13/94	Remove School
93-060	02/17/93	03/10/93	Woodstock D-board

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
District	Work order 01-226 to add new stop/stop ahead stencils in conjunction with new stop sign, plus refresh existing stencils.
Project Advisory	Review done on October 23, 2001. New stop sign control to be implemented late summer 2001. If problem persists then possible alternatives to consider could be: Four-way intersection/remove poles, Roundabout/remove poles, take out the bank and stabilize slope. There is an upcoming Town project to add sidewalks.
T Shop	Work orders 01-225, 01-226 (US 5) and 01-227 (VT 12) to add a new stop sign on US 5 and related markings.

Beth-2 VT 66 South Randolph 3.300 3.380

Past Projects

PIN *Project Name* *Project Category* *Road* *Completed Date* *Last Bid Date*

Past Work Orders

WO NO *WO Date.* *Completed Date* *Description.*

Future Projects

PIN *Project Name* *Project Category* *Road* *Projected Construction Date*

State Police 2001 Survey Recommendations

Recommendation

Description

District

Memo dated June 11, 2001, to work with the landowner and cut some of the lower branches. Brought to the attention of the DTA the poor pavement condition on the eastbound approach. Work order to add delineator in front of tree nearest to the road.

T Shop

Work order to add 3-way plate under stop signs. Work order to add yellow trail lines and to refresh centerlines. Work completed, October 2001.

Brad-1 VT 25 VT 25B Bradford 1.650 1.730

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
89C119	HMA 2405		V025B	10/19/1990	

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
96-020	1/17/96	01/24/96	SBSA
99-009	1/11/99	03/03/99	Re- Sign Jct.
99-008	1/11/99	02/24/99	Re-Sign Jct.

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Tshop	Work order issued to move the stop bar up.

Brad-2 US 5 VT 25 Bradford 1.380 1.466

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
89C071	HMA 2136		U005-	07/17/1990	05/18/1990
92C066	STP 9316(1)S	PAVING	V025-	08/20/1993	

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
97-263	9/22/97	11/24/97	Signal Timing
95-073	3/10/95	06/06/95	Rem. Xwalk Stencils
93-106	04/01/93	06/18/93	HAL #42 - Lane Use,

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Dist	Recommended to the District to cut the median back and create an opening by painting an island where the current markings are. Work completed November 7, 2001.

Brad-3 US 5 US 302 Newbury 9.460 9.545

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
89B017	F 026-2(4)S	PAVING	U302-	12/16/1992	
89B115	HMA 2406		U302-	10/10/1990	
91C170	STP 9251(1)S	PAVING	U005-	09/10/1993	07/24/1992

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
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Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
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None at this time

Brad-4 FAIRLEE SA1 Fairlee 0.156 0.196

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
92B160	STP 9402(1)S	PAVING	S9240	09/07/1994	02/25/1994

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
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Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
District 7	Mark Ljungvall met at the US5/Fairlee State Highway intersection with the Fairlee Constable and several other representatives of the Agency (May 23, 2001). The concern is the operation of the intersection with the Wing's Market drive acting as a fourth leg of the intersection. Their observations were that most of the problems are due to driver behavior. District 7 will refresh the stencils on the Fairlee State Highway and will add a Stop sign and Stop Bar to the Wing's Market drive. Al Wright will write to the owners of the market due to noncompliance with some of their permit conditions.

Derb-1 **US 5** **Ames** **Derby** **0.740** **0.820**

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
89B067	HMA 2137		U005-	11/01/1991	08/09/1991
90B073	F 034-3(18)S	PAVING	U005-	11/01/1991	08/09/1991

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
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Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
00C052	STP 2224()S	PAVING	U005-	2003

State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Project Review	Reviewed by committee on October 23, 2001. Possible consideration for a traffic signal.

Derb-2 **US 5** **VT 105** **Derby** **1.969** **2.049**

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
89B067	HMA 2137		U005-	11/01/1991	08/09/1991

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
99-343	9/15/99	11/11/99	Lane Assignment
95-084	3/28/95	04/10/95	Junction Signing
92-425	01/11/93	03/30/93	Signs Upgrade

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
00C052	STP 2224()S	PAVING	U005-	2003

State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Project Review	The intersection was reviewed by the project review committee (Oct. 23, 2001). A traffic signal and possibly improved turn lanes were recommended to Planning.

Derb-3 **US 5** **Caswell** **Derby** **5.850** **5.930**

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
96C148	STP 9724(1)S	PAVING	U005-	10/26/1999	03/12/1999

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
96-451	10/28/96	12/12/96	Truck Route

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Town	Letter to Town (sent November 20, 2001) to:1- Replace the existing flashing beacon with a new beacon with 12" lenses. 2- Consider reconfiguring the on street parking currently set at 90 degree with 60 degree or 45 degree stalls to increase sight distance. 3- Consider locating a Hidden Drive Right sign to alert motorists of the presence of Ducharme Drive.

Midd-1 VT 125 Hamlin Cornwall 1.820 1.900

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
91C161	PMA 9242		V125-	06/29/1992	07/12/1991

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
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Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Tshop	Work order to change 40 mph advisory speed to 35 mph, to replace existing signs and to add an additional arrow in each direction.

Midd-2 **US 7** **Monkton** **Ferrisburgh** **0.630** **0.655**

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
90B071	F 019-4(23)	PAVING	U007-	12/09/1993	10/16/1992

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
98-206	5/20/98	06/30/98	Flashing Beacons

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
98B002	NHG SGNL(20)S	TRAFFIC	U007-	2002

State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
None	Intersection being designed for signal control by Traffic Design. Reviewed final plans September 2001.

Midd-3 US 7 Hollow Ferrisburgh 6.890 6.970

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
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Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
00-055	2/18/00	03/31/00	No Parking

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
None	Intersection was reviewed in last year's survey. District 5 implemented access management at the post office (fall 2001). The intersection does not meet the traffic signal warrants.

Middsex-1 VT 14 Ayers Barre City 0.650 0.730

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
89C122	HMA 2416		V014-	10/19/1990	06/01/1990
92B207	STP 9452(1)S	PAVING	V014-	07/19/1997	04/11/1997
97D152	STP 9805(1)S	PAVING	V014-	10/24/2000	05/05/2000

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
97D022	STPG 6000(16)S	ROADWAY	V014-	2002

State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
none	Traffic signal being designed by Dubois and King for LTF. Reviewed 85% completed plans on August 29, 2001. Planned bid let date is 07/01/2003.

Middsex-2 I-89

Williamstown

40.500

41.500

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
87A001	IM IR 089-1(11)	ROADWAY PROJECTS	I089-	10/07/1996	01/07/1994
87A002	IR 089-1(12)	INTERSTATE BRIDGES	I089-		09/30/1990
92A280	IM 089-1(16)	PAVING	I089-	05/11/1999	03/27/1998
98A112	IM 089-1(21)	PAVING	I089-		07/20/2001

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
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Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
87A002	IR 089-1(12)	INTERSTATE	I089-	2005

State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Maintenance	Met on site with Lt. O'Leary, District 6, to try to coordinate between state police and district on the use of the NB sign.

Will-1 **US 7** **F5** **Charlotte** **3.390** **3.500**

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
87B203	F 019-4(21)	PAVING	U007-	10/11/1991	05/10/1991
91B206	FG SGNL(12)S	ROADWAY	U007-	09/02/1992	

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
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Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
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State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Traffic Design	New RC White Lighting Strobes installed by Traffic Design spring 2001(modification of the red indication). These strobes are designed to get motorists' attention. The strobes were taken out as per the request of FHWA in December 2001. A speed study was done, December 28, 01. 85th percentile speed northbound was 56 mph, and 51 mph southbound. One of the recommendations is to turn the shared left+thru northbound lane into a exclusive left turn lane.

Will-2 **US 7** **I-189** **Burlington** **0.126** **0.200**

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
95D056	CM NH 9621(1)S	PAVING	U007-		06/20/1997

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
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Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
01A010	IM 189-3(36)	PAVING	I189-	2003

State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
Town	Install a near side signal head on a new pedestal on the northwest corner.

Will-3 **VT 15** **VT 104** **Cambridge** **1.790** **1.834**

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
91B185	STP 9267(1)S	PAVING	V104-	07/19/1993	

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
95-202	7/6/95	01/01/99	Advance Flashing
99-151	4/21/99	07/23/59	Curve Warning

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
99B176	STP 2212()S	PAVING	V015-	2003

State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
District	Per work order 01-199, refresh stop ahead markings and stop bar, add stop word markings

T Shop	per work order 01-200, replace faded stop sign at mm 0.048, on left side.
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Will-4 **VT 15** **VT 108** **Cambridge** **5.090** **5.170**

Past Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Completed Date</i>	<i>Last Bid Date</i>
83C055	RS 0235(4)		V108-	08/10/1990	
92B057	STP 9305(1)S	PAVING	V108-	07/30/1993	
92B173	STP 9416(1)S	PAVING	V015-	10/26/1995	03/24/1995

Past Work Orders

<i>WO NO</i>	<i>WO Date.</i>	<i>Completed Date</i>	<i>Description.</i>
98-319	8/10/98	09/29/98	Blind Ped.

Future Projects

<i>PIN</i>	<i>Project Name</i>	<i>Project Category</i>	<i>Road</i>	<i>Projected Construction Date</i>
78F163	BRF 027-1(4)	STATE HIGHWAY	V108-	2003
99C188	STP 2218()S	PAVING	V108-	2003

State Police 2001 Survey Recommendations

<i>Recommendation</i>	<i>Description</i>
District	Work order 01-228 to add a delineator in front of culvert near pole 7 103. Work order 01-229 to refresh STOP, STOP AHEAD, and STOP bars. Work order 01-222 to move the cross road sign in the westbound direction on VT 15 from mm 5.408 to mm 5.240.
T Shop	per work order 01-198, post gate stop signs on VT 108 E approach.