



**Memorandum**

To: Joe Colangelo, Administrator  
Town of Hinesburg

Date: January 6, 2014

Project No.: 84198.13

From: Tim McGuire  
Michael Servetas

Re: Hinesburg Sidewalk Relocation  
Lantman's Market

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Based on the emails reviewed from the Town dated December 19, 2013 it appears that Hannaford development is proposing corridor type signal operation changes for Route 116 at the intersection of Lantman's Market and Charlotte Road. VHB designed the current signal layout as part of a VTrans Safety improvement project HES 0211-1(21) in 2007 (VHB project number 51699). The split-phase operation on the Charlotte Road and the Lantman's driveway approaches was incorporated into the current signal operation because signaling the intersection was a safety improvement and angular collisions between these minor street approaches was a concern. The exclusive pedestrian phase was added because of the site line restrictions created on the Lantman's driveway approach.

VHB has the existing intersection design plan set and the survey information used to create it. VHB could modify the 2007 plan set to relocate the sidewalk and adjust the signal phase and timing.

Tasks to include in redesign:

- Meet with the Town to determine what is driving the relocation of the sidewalk. Are signal modifications part of the sidewalk project or is it just for the sidewalk relocation/reconstruction? Discuss proposed relocation alternatives with the Town.
- Meet with local utility companies on site to review sidewalk relocation. It appears that the sidewalk can be relocated without moving any utility poles. There is underground conduit and wire for traffic lights that will be crossed; it will need to be confirmed in the field if this conduit is sufficiently deep to relocate the sidewalk without disturbing the conduit.
- Review the construction impact of the sidewalk on the nearby trees. Review with local arborist. The tree at 5+05, 40' RT is of most concern. It may be necessary to relocate or replace the small tree/shrub at 5+50, 35' RT.

- Revise the 2007 Safety project plan set to reflect the proposed sidewalk relocation.
  - Relocate sidewalk from approximately Sta 3+84 Rt (current sidewalk connection to crosswalk) to Sta 5+75 RT, ( match existing sidewalk). Approx. 135 lf of 5 foot sidewalk.
  - Create 8 cross section (every 25 feet from 4+00 to 5+75)
  - Create a Typical detail for sidewalk construction
  - Add curb between driveways at Sta 4+50 Rt and 5+25 RT
  - Coordination with Town and two abutting properties for easements (temporary construction and permanent maintenance for sidewalk).
  - Relocate two pedestal signal poles and equipment to relocate cross walk on Lantman's exit.

Based on the tasks outlined above VHB has prepared the attached cost estimate to provide engineering services to the Town of Hinesburg.

Although not specifically requested as part of this project, if signal modification is required as part of a future scope, the following additional tasks will likely need to be completed:

- Meet with VTrans highway safety group, and the Town to discuss signal phase change and make sure they will support the change.
- Obtain accident records for post signal installation years to see if there are any correctable patterns.
- Obtain current traffic counts to use in retiming the signals. Talk with Town and VTrans on time periods to collect.
- Review site distances to insure sufficient site lines are available.
- Obtain information on corridor improvements and signal plans if they impact this intersection.

# Cost Summary Sheet

<b>VHB Vanasse Hangen Brustlin, Inc.</b>	<b>PROJECT COST ESTIMATE</b>						
7056 US Route 7, P.O. Box 120	<b>TOWN OF HINESBURG</b>						
North Ferrisburgh, Vermont 05473	<b>Route 116 / Charlotte Road / Lantman's Sidewalk Relocation</b>						
(802) 497-6100							
DESCRIPTION	Subtotal Hours	Direct Labor Costs	Overhead (154.42%)	Fee (10%)	Subtotal Labor	VHB Direct Expenses	TOTALS
<b>VHB</b>	116	\$4,140.00	\$6,392.99	\$1,053.30	\$11,586.29	\$318.00	<b>\$11,904.29</b>
<b>Subconsultant:</b>							
<b>PROJECT TOTALS =</b>	116	\$4,140.00	\$6,392.99	\$1,053.30	\$11,586.29	\$318.00	<b>\$11,904.29</b>

## Labor Task Breakdown Sheets

<b>VHB Vanasse Hangen Brustlin, Inc.</b>		<b>Town of Hinesburg</b>							
7056 US Route 7, P.O. Box 120		<b>Route 116 / Charlotte Road / Lantman's Sidewalk Relocation</b>							
North Ferrisburgh, Vermont 05473									
(802) 497-6100									
	TASK DESCRIPTION	QA/QC	Project Manager	Project Engineer	Engineer	CAD/D Technician	Admin	Total Hours	Direct Labor Costs
<b>0.0</b>	<b>Project Management, Correspondence, Monthly Project Updates</b>								
	Project Management, Correspondence, Documentation, Project Updates		6				4	10	\$432.00
<b>A</b>	<b>Project Definition Phase</b>								
	Meeting with Town to determine Project Limits		4	2				6	\$308.00
	Meeting with Utility Companies on site		4	6				10	\$444.00
	Site Review with Arborist		4	6				10	\$444.00
	Easement Meeting and Sketch Plan		4	8		10		22	\$752.00
<b>B</b>	<b>Project Design Phase</b>								
	Plan Set	2	4	6	12	24		48	\$1,456.00
	Quantity Estimates			4	6			10	\$304.00
	<b>TOTAL HOURS:</b>	2	26	32	18	34	4	116	\$4,140.00
	<b>DIRECT HOURLY RATES :</b>	50.00	60.00	34.00	28.00	24.00	18.00		
	<b>TOTAL LABOR COSTS :</b>	\$ 100.00	\$ 1,560.00	\$ 1,088.00	\$ 504.00	\$ 816.00	\$ 72.00		\$ 4,140.00

## Direct Expenses Sheet

<b>VHB Vanasse Hangen Brustlin, Inc.</b>		<b>DIRECT EXPENSES</b>			
7056 US Route 7, P.O. Box 120		<b>TOWN OF HINESBURG</b> <b>Route 116 / Charlotte Road / Lantmans Sidewalk</b> <b>Relocation</b>			
North Ferrisburgh, Vermont 05473					
(802) 497-6100					
	DESCRIPTION	Unit	Unit Costs	Quantity	ESTIMATED DIRECT EXPENSES
1	Full Size Plotting - Working Drawings	SF	\$0.50	50	\$25.00
2	Half Size Printing - Working Drawings	EA	\$0.12	200	\$24.00
3	Full Size Plotting	SF	\$0.50	50	\$25.00
4	Large Format Photocopying (Black & White)	SF	\$0.50	0	\$0.00
5	Color Plots	SF	\$8.00	0	\$0.00
6	Photocopying (Black & White)	EA	\$0.12	100	\$12.00
7	Photocopying (Color)	EA	\$1.00	25	\$25.00
8	Travel	Mile	\$0.565	100	\$57.00
9	Postage and Deliveries	\$50.00	\$50.00	0	\$0.00
10	Telephone	Estimate	\$200.00	0	\$0.00
11	Meals	Day	\$22.05	0	\$0.00
12	Lodging	Night	\$100.00	0	\$0.00
13	Misc.	Estimate	\$150.00	1	\$150.00
<b>Grand Total =</b>					
					<b>\$318.00</b>