

TOWN OF VERNON
STATUS REPORT
2005 ROADWAY BOND PROGRAM

Prepared by
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December, 2008

SUMMARY

The Town of Vernon passed a referendum and, in 2005, began a major roadway reconstruction program. The construction cost was estimated to be approximately \$18 Million. As of December, 2008, approximately 83% of the roadways have been reconstructed.

The following projects have been completed:

Local Suburban Streets:

Jan Drive	Irene Drive	Scott Drive	Deepwood Drive
Richard Drive	Valley View Lane	Gottier Drive	Brookside Lane
Huntington Drive	Peterson Road Sidewalks		

Urban Streets:

Mountain Street	Lawrence Street	Webster Street	High Street
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Suburban Collector Roads:

Thrall Road	Regan Road	Center Road
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Rural Local and Collector Roads:

Bolton Road (North):	Clark Road to Indian Trail	Brandy Hill Road
Bolton Road (Middle)	Indian Trail to approximately 2600' south of Valley Falls Road	

Bridges:

Bolton Road Bridge

Center Road began in 2007 and was completed in 2008.

High Street and Peterson Road Sidewalks were constructed in 2008. The Department of Public Works constructed the middle section of Bolton Road in 2008.

Preliminary cost estimates for the work remaining indicate that, due to unanticipated construction cost increases and other factors, the actual cost of construction may exceed initial bond estimates.

After a long period of relatively stable roadway construction costs from 1983 to 2004, a 20% increase in costs was experienced from 2004 to 2007. The cost of liquid bitumen, a key component of bituminous concrete, doubled from January, 2008 to August, 2008. To adjust for these cost increases, three major steps were enacted.

The first step involved revisiting designs and providing contractors with alternative bid items while not diminishing the overall quality of the project. As well as maintaining this high quality, approximately \$100,000 was saved by reclaiming and using the existing roadway and base instead of using a full-depth reconstruction with new materials.

The second step was that the Town Department of Public Works (DPW) has assumed the responsibility for the reconstruction of several roadways using DPW forces and State Bid prices. It should be emphasized that the DPW forces are road maintainers and not fully equipped as road construction contractors and, therefore, are not capable of completing some of the more complex projects. Cardinal Engineering worked with the Town staff and developed designs that were constructible by DPW forces. Additionally, the Town DPW has solicited annual Town Bids for bituminous concrete, metal beam rail and other construction items such as stone and processed gravel. This allowed them to procure goods and services either using the State Bid or the Town Bid to supplement their in-house capabilities. The actual projected costs for the DPW forces to complete the projects listed in Table 1 resulted in significant savings for the Town.

The third step was to aggressively seek alternative funding sources in the form of grants through the State and Federal government. Grants have been received through the State of Connecticut Community Development Block Grant (CDBG) program for High Street and the first phase of Prospect Street. Two additional grants are anticipated for Prospect Street. Due to funding caps associated with the grants, these projects have been broken into several smaller projects and extended over a longer period of time to take full advantage of the funding program.

Approximately \$6.7 Million in grant monies either have been or will be applied for. Approximately \$3.0 Million in grants has been received or committed and \$1.0 Million is pending.

The balance of the \$2.7 Million was denied based on various eligibility requirements.

This status report is a summary of the overall road bond program, the present estimate of project costs and the proposed schedule for completion. Future project costs have been based on designs using present construction costs, 5% annual inflation and slightly higher inflation for paving. The cost projections are based on the Town DPW completing the remainder of the rural roads and the urban roads being funded by the State of Connecticut through the Community Development Block Grant (CDBG) program. The schedule has been extended with completion anticipated in 2011 to allow time for the work to be done by DPW forces and to maximize the funding for the urban street projects. The Dart Hill Road Bridge was found to be structurally adequate and therefore is not eligible for state funding and was removed from the project.

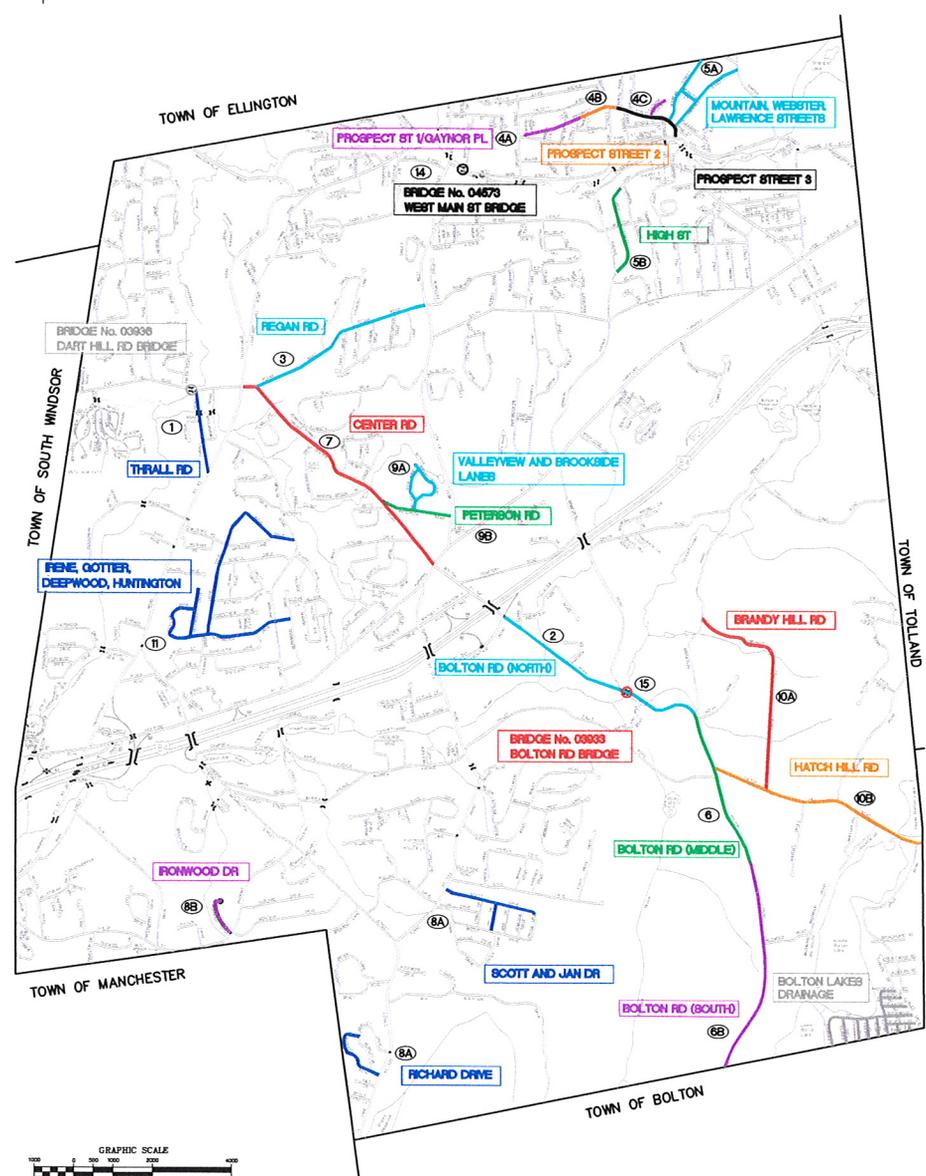
Based on current cost projections, it is anticipated that the present program will be completed within budget in conjunction with receipt of the pending grants.

Table 1 summarizes the Project Status. Figure 1 shows the proposed construction schedule by color on the Town road map.

Town of Veirnon
 2005 Road Reconstruction Program
 Status Report
 December 1, 2008

PROJECT	CONSTRUCTION YEAR	PROJECT COST ESTIMATE OR ACTUAL COST	GRANTS	ESTIMATED NET PROJECT COST	ORIGINAL TOWN COST ESTIMATE	CONTRACTOR	STATUS
Jan Drive	2005	\$32,335		\$32,335	\$92,420	PUBLIC WORKS	COMPLETE
Scott Drive	2005	\$132,240		\$132,240	\$367,500	PUBLIC WORKS	COMPLETE
Richard Street	2005	\$123,845		\$123,845	\$243,200	PUBLIC WORKS	COMPLETE
Gottier Drive	2005	\$74,548		\$74,548	\$125,660	PUBLIC WORKS	COMPLETE
Huntington Drive	2005	\$208,655		\$208,655	\$336,530	PUBLIC WORKS	COMPLETE
Irene Drive	2005	\$320,309		\$320,309	\$587,800	PUBLIC WORKS	COMPLETE
Deepwood Drive	2005	\$72,797		\$72,797	\$136,800	PUBLIC WORKS	COMPLETE
Thrall Road	2005	\$736,879		\$736,879	\$388,100	VMS CONST.	COMPLETE
Mountain Street	2006	\$1,237,000		\$1,237,000	\$821,000	BALTAZAR	COMPLETE
Lawrence Street	2006	\$1,231,000		\$1,231,000	\$912,000	BALTAZAR	COMPLETE
Webster Street	2006	\$224,000		\$224,000	\$203,000	BALTAZAR	COMPLETE
Valley View Lane	2006	\$102,072		\$102,072	\$112,500	PUBLIC WORKS	COMPLETE
Brookside Lane	2006	\$80,401		\$80,401	\$256,900	PUBLIC WORKS	COMPLETE
Regan Road	2006	\$1,850,863		\$1,850,863	\$1,926,000	DUFFORD CONST.	COMPLETE
Bolton Road North	2006	\$1,591,000		\$1,591,000	\$1,200,000	VMS/PUBLIC WORKS	COMPLETE
Brandy Hill Road	2007	\$400,000		\$400,000	\$823,600	PUBLIC WORKS	COMPLETE
Bolton Road Bridge	2007	\$979,600	\$293,880	\$685,720	\$244,124	PONDVIEW CONST	COMPLETE
Center Road	2007	\$4,738		\$4,738	\$0	PUBLIC WORKS	COMPLETE
Center Road	2007	\$1,000,000		\$1,000,000	\$1,000,000	LUDLOW CONST.	COMPLETE
Center Road	2008	\$2,732,000		\$2,732,000	\$1,285,000	LUDLOW CONST.	COMPLETE
Peterson Road	2008	\$171,000		\$171,000	\$100,000	LUDLOW CONST.	COMPLETE
Bolton Rd Middle	2008	\$624,000		\$624,000	\$463,000	PUBLIC WORKS	COMPLETE
High Street	2008	\$757,000	\$500,000	\$257,000	\$608,000	VMS	COMPLETE
Ironwood Drive	2009	\$223,000		\$223,000	\$227,200	PUBLIC WORKS	DESIGN COMPLETE
Bolton Road South	2009	\$516,000		\$516,000	\$263,000	PUBLIC WORKS	DESIGN COMPLETE
Prospect Street (Phase 1) and Gaynor Place	2009	\$1,105,000	\$500,000	\$605,000	\$468,500	CONTRACTOR	BID FOR 2009 CONST.
Hatch Hill Road	2010	\$624,000		\$624,000	\$851,200	PUBLIC WORKS	DESIGN COMPLETE
Prospect Street (Phase 2)	2010	\$825,000	\$500,000	\$325,000	\$468,500	CONTRACTOR	IN DESIGN
Prospect Street (Phase 3)	2011	\$800,000	\$500,000	\$300,000	\$468,500	CONTRACTOR	IN DESIGN
West Main Street Bridge	2011	\$2,160,000	\$1,728,000	\$432,000	\$596,000	CONTRACTOR	FUTURE PROJECT
DART HILL RD BRIDGE					\$611,000	REMOVED FROM PROGRAM	(INELIGIBLE FOR DOT FUNDS)
BOLTON LAKE DRAINAGE					\$204,000	INCLUDED IN FUTURE SAN SEWER PROJECT	
ESTIMATED PROJECT COST		\$20,839,282					
GRANTS: CDBG & DOT			\$4,021,880				
NET PROJECT COST				\$16,817,402			
ORIGINAL COST ESTIMATE					\$17,138,734		

TOWN OF VERNON 2005 ROAD RECONSTRUCTION PROGRAM PROJECT STATUS



- 2005 CONSTRUCTION:**
- ① THRALL ROAD
 - ⑧A RICHARD, SCOTT, AND JAN DRIVES
 - ① IRÈNE, GOTTIER, DEEPWOOD, AND HUNTINGTON DRIVES
- 2006 CONSTRUCTION:**
- ③ REGAN ROAD
 - ② BOLTON ROAD (NORTH)
 - 5A MOUNTAIN, LAWRENCE, AND WEBSTER STREETS
 - 6A VALLEYVIEW AND BROOKSIDE LANES
- 2007 CONSTRUCTION:**
- ⑤ BOLTON ROAD BRIDGE
 - 6A BRANDY HILL ROAD
 - ⑦ CENTER ROAD
- 2008 CONSTRUCTION:**
- ⑥ BOLTON ROAD (MIDDLE)
 - ⑤B HIGH STREET
 - 6B PETERSON ROAD (SIDEWALKS)
- 2009 CONSTRUCTION:**
- 6B BOLTON ROAD (SOUTH)
 - 8B IRONWOOD DRIVE
 - 4A PROSPECT STREET 1 & GAYNOR PLACE
- 2010 CONSTRUCTION:**
- 6B HATCH HILL ROAD
 - 4B PROSPECT STREET 2
- 2011 CONSTRUCTION:**
- 4C PROSPECT STREET 3
 - 14 WEST MAIN STREET BRIDGE
- REMOVED FROM PROGRAM:**
- DA RT HILL ROAD BRIDGE
- TRANSFERRED TO FUTURE SANITARY SEWER PROJECT:**
- BOLTON LAKES DRAINAGE

DECEMBER 2008

CARDINAL ENGINEERING ASSOCIATES, INC.

FIGURE 1