

## Residential and Rural Road Rehabilitation -- No. 500914

Category  
Subcategory  
Administering Agency  
Planning Area

Transportation  
Highway Maintenance  
Transportation  
Countywide

Date Last Modified  
Required Adequate Public Facility  
Relocation Impact  
Status

January 09, 2010  
No  
None.  
On-going

### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY09	Est. FY10	Total 6 Years	FY11	FY12	FY13	FY14	FY15	FY16	Beyond 6 Years
Planning, Design, and Supervision	5,872	0	262	5,610	615	810	945	1,080	1,080	1,080	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	34,425	1,152	1,483	31,790	3,485	4,590	5,355	6,120	6,120	6,120	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>40,297</b>	<b>1,152</b>	<b>1,745</b>	<b>37,400</b>	<b>4,100</b>	<b>5,400</b>	<b>6,300</b>	<b>7,200</b>	<b>7,200</b>	<b>7,200</b>	<b>*</b>

### FUNDING SCHEDULE (\$000)

G.O. Bonds	30,247	1,152	1,545	27,550	4,100	1,050	4,000	4,000	7,200	7,200	0
Recordation Tax Premium	10,050	0	200	9,850	0	4,350	2,300	3,200	0	0	0
<b>Total</b>	<b>40,297</b>	<b>1,152</b>	<b>1,745</b>	<b>37,400</b>	<b>4,100</b>	<b>5,400</b>	<b>6,300</b>	<b>7,200</b>	<b>7,200</b>	<b>7,200</b>	<b>0</b>

#### DESCRIPTION

This project provides for the major rehabilitation of rural and residential roadways in older communities to include extensive pavement rehabilitation and reconstruction including the associated rehabilitation of ancillary elements such as under drains, subgrade drains, and curbs and gutters (if present). This project will not make major changes to the location or size of existing drainage structures, if any.

#### COST CHANGE

Increase due to addition of FY15-16 to this ongoing level of effort project.

#### JUSTIFICATION

In FY09, the Department of Transportation instituted a contemporary pavement management system. This system provides for systematic physical condition surveys. The physical condition surveys note the type, level, and extent of residential pavement deterioration combined with average daily traffic and other usage characteristics. This information is used to calculate specific pavement ratings; types of repair strategies needed, and associated repair costs, as well as the overall Pavement Condition Index (PCI) of the entire residential network. The system also provides for budget optimization and recommending annual budgets for a systematic approach to maintaining a healthy residential pavement inventory.

The latest survey indicated that 1,095 lane miles (27 percent) of residential pavement have fallen into the lowest possible category and are in need of structural reconstruction. Typically, pavements rated in this category require between 15-20 percent permanent patching per lane mile.

Physical condition inspections of residential pavements will occur on a 2-year cycle.

#### OTHER

Hot mix asphalt pavements have a finite life of approximately 20 years based upon a number of factors including but not limited to; original construction materials, means and methods, underlying soil conditions, drainage, daily traffic volume, other loading such as construction traffic and heavy truck traffic, age, and maintenance history.

A well maintained residential road carrying low to moderate traffic levels is likely to provide a service life of 20 years or more. Conversely, lack of programmed maintenance will shorten the service life of residential roads considerably, in many cases to less than 15 years before rehabilitation is needed.

#### OTHER DISCLOSURES

- A pedestrian impact analysis has been completed for this project.
- \* Expenditures will continue indefinitely.

#### APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY09	(\$000)
First Cost Estimate		
Current Scope	FY11	40,297
Last FY's Cost Estimate		25,897

Appropriation Request	FY11	4,100
Appropriation Request Est.	FY12	5,400
Supplemental Appropriation Request		0
Transfer		0

Cumulative Appropriation		2,897
Expenditures / Encumbrances		2,708
Unencumbered Balance		189

Partial Closeout Thru	FY08	0
New Partial Closeout	FY09	0
Total Partial Closeout		0

#### COORDINATION

Washington Suburban Sanitary Commission  
Washington Gas Light Company  
Department of Permitting Services  
PEPCO  
Cable TV  
Verizon  
Montgomery County Public Schools  
Regional Services Centers  
Community Associations  
Commission of People with Disabilities

#### MAP

