



Date of Council Meeting: October 26, 2015

**TOWN OF LEESBURG
TOWN COUNCIL WORK SESSION**

INFORMATION MEMO

Subject: Annual Paving Program – Fiscal Year 2016

Staff Contact: Renée M. LaFollette, P.E., Director – Public Works and Capital Projects
Tom Brandon, Capital Projects Manager – Public Works and Capital Projects
Brian Lloyd, Inspections Supervisor – Public Works and Capital Projects

Council Action Requested: None. Information only.

Staff Recommendation: Not applicable.

Commission Recommendation: Not applicable.

Fiscal Impact: The Fiscal Year 2016 budget includes funding for street milling, resurfacing, concrete repairs, and handicap ramp installation. The Town was also awarded \$375,000 by the Virginia Department of Transportation Revenue Sharing Program for annual street maintenance.

Work Plan Impact: None. The street maintenance program is part of the department work plan.

Executive Summary: The annual street maintenance program is an essential part of maintaining the Town's roadways, and for protecting the Town's investment in the infrastructure already in place. Town streets are annually reviewed and analyzed using an automated pavement management system. Based on these results, streets are prioritized for milling and overlay each year.

Background: The Town annually contracts for street milling and resurfacing for a portion of the roadways in the Town's transportation network. The purpose of the milling and resurfacing program is to provide a new wearing surface in order to protect the Town's investment in the infrastructure that is already in place. This helps to minimize the impacts of oxidation and exposure from the weather and from vehicle wear on the pavement while adding to the strength of the pavement section.

As with any maintenance work, the key to realizing long term savings is to perform timely maintenance. By following an annual milling and paving schedule, the streets are not allowed to deteriorate to the point that the only option for repair is a costly reconstruction project.

The Virginia Department of Transportation (VDOT) and the federal government have required a system for allocating funds for pavement maintenance since 1992. This system eliminates

political consideration and personal preference to ensure funding is applied fairly and appropriately.

The Town utilizes an automated pavement management system called PAVR. This program uses a set of measurements which includes a detailed set of nineteen points of physical inspection that are entered into the program to determine a Pavement Condition Index (PCI). This PCI is then used to determine the priority of which streets are in need of milling and resurfacing. The PCI rating ranges from zero (failure) to 100 (excellent). PCI deteriorates over time due to weather, traffic and other conditions. Research has shown that once the PCI falls to approximately 60, the rate of pavement deterioration accelerates. Due to this greater deterioration, the cost of repairs begins to increase significantly. For that reason, in order to be eligible for VDOT reimbursement under the Revenue Sharing program, the PCI must be below 60.

Based on the most current assessment of the condition of Town streets, the Public Works and Capital Projects Department plans to mill and repair the following streets as submitted to VDOT for revenue sharing funds related to the Fiscal Year 2016 program:

Name of Street and Limits	Estimated Milling Cost	Estimated Paving Cost	Estimated Total Cost	2015 PCI	Previous PCI
1. Sheridan Way (Lawford Dr. to Greenway Dr.)	\$3,310.00	\$15,850.00	\$19,160.00	47	47
2. Greenway Dr. (Sheridan Way to Meade Dr.)	\$11,200.00	\$53,750.00	\$64,950.00	40	46
3. Anne St. (Dry Mill Rd. to Wageann St.)	\$3,950.00	\$18,950.00	\$22,900.00	43	58
4. Anne St. (Wageann St. to cul-de-sac)	\$2,410.00	\$11,580.00	\$13,990.00	42	53
5. W Market St. (Fairview St. to Loudoun St.)	\$8,400.00	\$40,050.00	\$48,450.00	41	53
6. Catoctin Circle (Foxridge Dr. to Dry Mill Rd.)	\$9,180.00	\$43,975.00	\$53,155.00	42	52
7. Fort Evans Rd (EBL/Partial WBL) (Potomac Station Dr. to Sycamore Hills Dr.)	\$14,400.00	\$70,000.00	\$84,400.00	51	55
8. Battlefield Pkwy (SBL) (Hunton Pl. to Tennessee Dr.)	\$10,800.00	\$51,680.00	\$62,480.00	36	55
9. Battlefield Pkwy (NBL) (Hunton Pl. to Tennessee Dr.)	\$11,760.00	\$53,750.00	\$65,510.00	33	57
10. Evergreen Mill Rd (S King St. to Alpine Dr.)	\$20,010.00	\$95,875.00	\$115,885.00	44	54
11. Dry Mill Rd (Wage Dr. to west corporate limits)	\$5,875.00	\$28,150.00	\$34,025.00	45	57
12. Clubhouse Dr. (S King St. to cul-de-sac)	\$28,495.00	\$136,600.00	\$165,095.00	52	56

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Estimated Total Costs	\$129,790.00	\$620,210.00	\$750,000.00		
Concrete Repair costs and Handicap Ramp Installation Costs			\$134,500.00		
Total Costs			\$884,500.00		

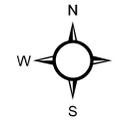
A map is attached showing the location of the streets listed above.

Based on the data provided by the automated pavement management system and analysis of the data by staff, the following streets are listed in the current order of need for maintenance should additional funds become available for the Fiscal Year 2016 program.

Name of Street	Estimated Cost	2015 PCI	2014 PCI
1. Battlefield Pkwy. (SBL) (Tennessee Dr. to Artillery Terr.)	\$56,000.00	34	61
2. Potomac Station Dr. (Saddleback Pl. to Tonquin Pl.)	\$93,000.00	38	63
3. Battlefield Pkwy. (NBL) (Route 7 to Potomac Station Dr.)	\$83,000.00	44	60
4. Meade Dr. (Lawnhill Ct. to Hauge Dr.)	\$74,000.00	44	58
5. Deerpath Ave. (Foxridge Dr. to cul-de-sac)	\$62,000.00	46	55
6. Rt. 15 Bypass (NBL & SBL) (Battlefield Pkwy. to North Corp. Limits)	\$110,000.00	47	74
7. Battlefield Pkwy. (NBL) (Route 7 to Potomac Station Dr.)	\$83,000.00	44	60
8. Clairmont Ct. (Stoneledge Pl. to cul-de-sac)	\$20,000.00	48	65
9. Meade Dr. (Lawnhill Ct. to South King St.)	\$85,000.00	53	65
10. Foxridge Dr. (Catoctin Cir. to Deerpath Ave.)	\$74,000.00	53	72
11. Battlefield Pkwy. (SBL) (Route 7 to Potomac Station Dr.)	\$89,000.00	59	79
Estimated Total Cost	\$825,000.00		

Attachments: (1) Map of streets for FY 2016 paving

Town of Leesburg Milling and Paving Fiscal Year 2016



- 1) Sheridan Wy (Lawford Dr to Greenway Dr)
- 2) Greenway Dr (Sheridan Wy to Meade Dr)
- 3) Anne St (Dry Mill Rd to Wageann St)
- 4) Anne St (Wageann St to cul-de-sac)
- 5) W Market St (Fairview St to Loudoun St)
- 6) Catoclin Cir (Foxridge Dr to Dry Mill Rd)
- 7) Fort Evans Rd (EBL/Partial WBL)
(Potomac Station Dr to Sycamore Hills Dr)
- 8) Battlefield Pkwy (SBL) (Hunton Pl to Tennessee Dr)
- 9) Battlefield Pkwy (NBL) (Hunton Pl to Tennessee Dr)
- 10) Evergreen Mill Rd (S King St to Alpine Dr)
- 11) Dry Mill Rd (Wage Dr to West Corporate Limits)
- 12) Clubhouse Dr (S King St to cul-de-sac)

Legend

-  Town Limit Line
-  W&OD Trail
-  Centerline

0 0.25 0.5 1 Miles