Cape Seal Road Treatment 2013
Governor’s Green, Maple Grove and Waverly Village

Virginia Department of Transportation
Fredericksburg District
Tonight’s Agenda

• Welcome and introductions
• What is cape seal?
• What can I expect to see during construction?
• What will the road look like when it is finished?
• Why was cape seal chosen for our neighborhood?
• How to contact us
• Questions and answers
What Is Cape Seal?

- Cape Seal is an integrated process, with one road treatment followed by another.
- It begins with chip seal, followed by a slurry seal.

Cape Seal will ....

- *Give all the roads in your neighborhood a uniform color, and smoother driving surface than chip seal*
- *Prevent crumbling and cracking*
- *Keep your roads in good condition for years*
What Is Cape Seal?

• Developed in South Africa by the Cape of Good Hope Provincial Administration in the 1950s.

• Cape seal has been used successfully in the U.S. since the 1970s, and by VDOT in Richmond and Shenandoah Valley neighborhoods.
Step 1: Street Preparation

• Begins Monday, March 25

• Workers will be milling the asphalt to repair distressed or damaged areas.

• Workers will remove grass, weeds, and other debris so work will begin on a clean surface.
Step 2: Chip-Sealing

• Workers will seal the road surface with a layer of asphalt “chips,” which is a mixture of liquid asphalt and stone.

• To prevent asphalt from damaging vehicles, it is blotted with a layer of stone dust.

• There will be a rougher surface than usual during this phase. Pedestrians and bicyclists should use caution. This is a temporary condition!
Step 3: Sweeping

- Approximately two weeks after the application of chip seal, workers will return to sweep or vacuum loose stone and sand.
Step 4: Slurry Seal

- The final travel surface is applied, a mix of crushed stone and liquid asphalt.

- The surface will have a slightly texturized surface, which will be smoothed out over time by traffic.

- The new surface will have a slightly brownish tint for several hours until it has cured. When it has cured, the material will darken to black.
Finished Cape Seal: Photos
Project Location Map for 2013
Maple Grove, Waverly Village, and Governor’s Green
Why was Cape Seal chosen for our neighborhood?

• Cape seal is ideal for residential neighborhoods that call for a smoother texture than chip seal.

• Cape Seal addresses fair-to-moderately cracked pavement, and provides a skid-resistant surface with a long service life.

• Cape Seal combines the advantages of two sealing preventive maintenance methods.

• Cape Seal minimizes water penetration, reducing damage to the road bed.
Why was Cape Seal chosen for our neighborhood?

- Finish and ride is similar to asphalt, but the price is substantially lower, allowing us to improve more neighborhoods every year.

- Cape seal combines the durability of a chip seal with the smoothness of a slurry seal.

- Less expensive than patching only, waiting for 10+ years, and having to do a complete road reconstruction or rehabilitation.
# Road Treatments: Lane Mile Cost Comparison

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Lane Mile Cost</th>
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<tbody>
<tr>
<td>Chip Seal</td>
<td>$15,359</td>
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<tr>
<td>Slurry Seal B</td>
<td>$20,135</td>
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<tr>
<td>Latex B</td>
<td>$24,140</td>
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<tr>
<td>Cape Seal (ST &amp;SS)</td>
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<tr>
<td>2.0&quot; HMA Overlay</td>
<td>$92,502</td>
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<tr>
<td>2.0&quot; HMA Mill &amp; Overlay</td>
<td>$104,768</td>
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How can I contact VDOT?

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