

## POTHOLE PATCHING



**What Is A Pothole?** While several factors contribute to the creation of potholes, they are distresses in the pavement that can create a failure of the pavement. This failure causes the pavement material to crumble and create a void in the pavement.

**Why Does The City Patch Potholes?** Pothole patching is not considered preventative maintenance. It is a temporary repair to restore the roadway to a safe driving condition.

**Can I Report A Pothole?** Yes. You can report a pothole to the city through our **pothole hot-line, 832-3456** or through the city's web site.

[www.lawrenceks.org](http://www.lawrenceks.org)

**What Information Should I Have When I Report A Pothole?** The more information we have the better we are able to make a speedy repair. Information such as the exact address, location, and size of the hole.

**Why Is My Contact Information Needed When Reporting A Pothole?** Information you provide is kept confidential and we encourage your reporting. Sometimes we need to contact you to get more information to provide better service.

**How long Does It Take To Repair A Pothole Once It Gets Reported?** The city has a goal of repairing reported potholes within 48 hours. In addition, we have crews out regularly looking for potholes throughout the year.

**How Many Potholes Does The City Repair Annually?** This is highly dependent upon a variety of factors such as the severity of winters. For example, in 2012 the city patched 6,041 potholes. Additionally, in 2011 the city patched 12,575 potholes, 30,472 potholes in 2010, 12,898 potholes in 2009, and 18,449 potholes in 2008.

## PAVEMENT MANAGEMENT

**What is the Pavement Management Program?** It is a management tool used to analyze, rate, and determine future maintenance needs for streets and curb and gutters. Two rating cycles of inventory for the Pavement Management Program have been completed, the first in 2005 and the second in 2009. Currently, city staff is working on the third cycle with the goal of updating 25% of the street inventory annually. Summary data are compiled, analyzed, and utilized as the basis for the annual street maintenance program planning of both in-house and contracted work.

**What is a PCI?** The PCI or Pavement Condition Index is a rating from 0 to 100. It is a numerical value assigned based on the visual street condition and ride. A rating of 100 represents a pavement surface with no visible distresses.

**How Many Lane Miles Of Streets Are In Lawrence?** We have 812.5 lane-miles of streets and growing each year.

**What do you consider an unacceptable street rating?** Typically, a street segment is considered to be in "fair to poor" condition when the PCI drops below 65 for arterials, 60 for collectors, and 55 for residential streets. Unacceptable (fair to poor condition) streets generally are not good candidates for preventive maintenance work. The Pavement Management Program showed 19.47% of the city streets rated as "fair to poor" at the end of the third quarter of Rating Cycle 3.

**What Is My Street's PCI?** You can find your PCI rating by calling 832-3123 or by accessing [www.lawrenceks.org/city\\_maps](http://www.lawrenceks.org/city_maps)

Ratings and Conditions	Cycle 1	Cycle 2	Cycle 3
Average PCI rating (based on street center-line length):	69.00	70.28	75.46
% of pavement w/ PCI rating of acceptable or above: (Overall)	(68.46)	(70.19)	(80.53)
Arterial	60.23	55.69	70.86
Collector	70.10	72.84	79.67
Residential	71.71	76.13	85.89
% of curb and gutter rated as:			
Good	53.37	61.50	63.99
Fair	32.06	29.53	27.18
Poor	14.57	8.97	8.84

# MAINTAINING OUR FUTURE



## A GUIDE TO STREET MAINTENANCE IN LAWRENCE, KANSAS



City of Lawrence  
PUBLIC WORKS

City of Lawrence  
6th E 6th Street  
Lawrence, Kansas

## CRACK SEALING



**What Is Crack Sealing?** A key preventative maintenance technique where small cracks are filled with a rubberized asphalt product creating thick "snake like" lines on the street. Sealing the cracks helps prevent water from getting into the street pavement and causing potholes.

**Which Streets Are Sealed?** Streets that are planned for microsurfacing are typically crack sealed. Streets constructed or overlaid 3 to 5 years ago are also cracked sealed. In addition, streets are also selected by using our pavement management program which finds streets that are in generally good condition with minimal cracking. Our street crews also seal the edges of existing asphalt patches.

**How Often Are Streets Sealed?** Typically we try to seal streets every 5 to 8 years.

**Can I Drive On Crack Sealing?** Yes. After the street is crack sealed, soapy water is applied to cool and cure the rubberized crack sealant. Due to hot weather in the summer, crack sealing is typically done in the spring or fall when the weather is cooler.

**Will I Receive Notice From The City Prior To Work Beginning?** No. This maintenance does not affect property owners for a lengthy time. While there will be traffic disruptions during this work it is only for a short period.

**How Much Crack Sealing Is Done Each Year?** While this depends on budget, typically the city seals about 100 lane-miles of roadways each year based on the 2006 through 2012 yearly average.

## CURB REPLACEMENT

**What Is Curb & Gutter Replacement?** The process of removing deteriorated curb and replacing with new. As curbs deteriorate they can create problems with drainage. This also can lead to roadway problems.

**Which Curbs Are Replaced?** Often the roadway adjacent to the curb sections are in good shape and do not require replacement. In this case only the curbs are replaced. Determination of which curbs are to be replaced come from an evaluation of the curbs. Curbs are then rated and prioritized for replacement based on location and/or available budget.

**Can I Report A Bad Curb?** Yes. You can call the Street Division to report a bad curb **832-3031**. The curb will be evaluated and placed on a list which prioritizes replacement based on condition, location, and order in which the request was received.

**What Happens To My Yard Once The Curb Is Replaced?** The city will restore the disturbed areas once the project is completed.

**What If I Have Items In The Right Of Way, Such As A Sprinkler System?** If you are notified of an upcoming project we do ask that if you have any items in the right of way, such as a sprinkler or fence, that you notify Public Works. This way we can minimize or eliminate any damage to your property.

**Will I Receive Notice From The City Prior To Work Beginning?** Yes. You will be notified prior to the start of the project by either the city or its contractor.

**How Much Curb & Gutter Is Replaced Each Year?** From 2006 through 2012 the city replaced an average of 6 to 7 miles of curb and gutter per year.



## MICROSURFACING



**What Is Microsurfacing?** Microsurfacing is a preventative street sealing technique that uses a pre-mixed slurry of rock, polymer asphalt binders, cement, and filler materials to seal the entire roadway at a depth of about 3/8th of an inch. It is applied over the top of the pavement.

**Where Is Microsurfacing Used?** Microsurfacing applications are used on residential, collector, and some arterial streets. It is applied using specialized equipment.

**Why Did My Street Get Microsurfaced Instead Of Overlaid?** Once a pavement section is determined to need preventative maintenance we then have to select the most cost effective method for the condition of the pavement. Microsurfacing is applied to pavements that are generally in good shape, but need more sealing and patching than a typical crack sealing project would provide. The cost to microsurface (plus asphalt patching) is \$5.00 to \$7.00 per square yard as compared to \$14.00 to \$16.00 per square yard for a typical 2" mill & overlay (plus pavement patching).

**Will I Receive Notice From The City Prior To Work Beginning?** Yes. General notice to the area. While there will be traffic disruptions during this work it is only for a short time. Microsurfacing can be driven on in about two hours.

**Will I Need To Move My Car Off Of The Street?** Yes. As with many of our maintenance projects we will need you to find an alternative spot to park your car. This will enable us to properly perform maintenance and reduce the possibility for damage to your car.

**How Much Microsurfacing Is Done Each Year?** From 2007 through 2012 the city averaged 26 lane-miles of microsurfacing per year.

## MILL & OVERLAY

**What Is A Mill & Overlay?** A mill & overlay removes the top 2 to 3 inches of pavement and replaces it with new hot mixed asphalt. The milling removes the old deteriorated pavement surface and creates a rough surface for the new pavement to bond with the old pavement.

**Why Does The City Mill & Overlay Streets?** As a street ages, it is necessary to remove and replace the top layer of asphalt. This will extend the life of the pavement 10 to 15 years.

**Is There Any Other Work That Is Done When The Street Is Overlaid?** Yes. Once the old pavement has been milled we will make repairs to any part of the old pavement that is in poor condition prior to the overlay. We will often replace bad curbs during this process.

**Does The City Overlay Concrete Streets?** Yes. It is possible to mill concrete streets, but typically a thin 1 to 2 inch overlay is applied directly to the surface of the existing concrete street. It is not a common practice for the city to overlay concrete streets.

**Will I Receive Notice From The City Prior To Work Beginning?** Yes. The city or its contractor will give you written notice prior to the milling. You will also receive a second notice prior to the overlay. You will be asked to not park your vehicles on the road during both processes.

**How Much Mill & Overlay Is Done Each Year?** From 2006 through 2012 the city averaged 24 lane-miles of overlay per year.



**Contact Public Works - 832-3123**