



# CITY OF PHOENIX

## PAVEMENT PRESERVATION PROGRAM

The Street Transportation Department is responsible for managing and maintaining one of the city's most valuable assets – a public street network with nearly 5,000 miles. Our overall efforts are aimed at keeping the city's streets in a state of good repair and extending their lifespan. Pavement preservation ranges from pothole patching to longer term resurfacing and extensive road reconstruction.

### PAVEMENT MAINTENANCE SCHEDULING

The City schedules pavement maintenance five years in advance based on asphalt conditions and funding availability. Areas identified as those most in need are placed on the five-year schedule.

### PAVEMENT EVALUATION & MAINTENANCE PRIORITIZATION

Staff uses a Pavement Management System (PMS) methodology to evaluate asphalt condition. The foundation of PMS is field data obtained using a high-tech pavement management vehicle, which measures and records the condition of roads annually; evaluating them on surface roughness, environmental stresses, and structural condition. Based on the resulting pavement condition index (PCI) rating, which is measured 0-100 (worst to excellent), staff uses the objective measurements to develop an initial list of roads to receive a resurfacing treatment. Once a street is suggested, field evaluations are conducted to confirm or negate the results. The goal is to apply the right surface treatment at the right time based on the results of the overall pavement evaluation.

### THE NEED FOR PRESERVATION

- Extends pavement life.
- Delays the need for costly rehabilitation or reconstruction.
- Improves the overall network condition by keeping good roads good.
- Improves pavement condition and helps maintain road conditions safe for users.

### PAVEMENT PRESERVATION TREATMENTS

Pavement preservation treatments are applied to streets to replenish lighter oils and rejuvenate the roadway in order to prolong its service life. Because the cost of applying surface treatments is minimal compared to resurfacing the roadway, Phoenix makes an effort to utilize preservation treatments to extend the service life of streets throughout the city. Examples of pavement preservation techniques include:

- Crack Seal
- Microsurfacing
- Slurry seal
- Fractured Aggregate Surface Treatment
- Polymer Modified Master Seal
- Asphalt Patching and Pothole Repairs

### PAVEMENT MILL & OVERLAY

Although there are numerous pavement preservation treatments and maintenance options, the most extensive and complete maintenance approach, yet also the more costly, is a mill and overlay of the asphalt pavement. A complete mill and overlay is necessary when asphalt surface has reached the end of its service life or preventative treatments no longer benefit a road. Making the call to overlay is a very important decision that involves a lot of factors. These factors include maintenance history, physical condition and budget.

**OUR GOAL:**  
the **RIGHT TREATMENT**  
at the **RIGHT TIME**

**7 T2050 FUNDING FOR STREET MAINTENANCE AT A GLANCE**

- T2050 will generate more than \$1 billion in funding for street maintenance.
- As a whole Phoenix's annual pavement preservation program now includes an average of 300 street miles per year. Prior to T2050 the program only included an average of 130 miles per year.
- T2050 helps achieve an optimal 30-year maintenance cycle for arterial streets, prior to T2050 the city's maintenance cycle for this type of street was 60 years.

**QUICK FACTS**

Phoenix's roadway network includes nearly 5,000 miles of public streets – an asset worth over \$500 million.

---

Every \$1 spent on preservation saves \$8 in major reconstruction costs.

## FREQUENTLY ASKED QUESTIONS

### **Is there a list of streets included in the pavement preservation work plan?**

The city's five-year pavement preservation work plan and a corresponding map is available online at [Phoenix.gov/T2050](https://phoenix.gov/T2050) under Street Maintenance in the plan elements tab.

### **My road is not on the list of roads to be treated this year. How can I request that it receive treatment next year?**

If you believe your road is in need of repair or treatment, contact the Street Transportation Department at 602-262-6284 to let us know about your maintenance concerns.

### **I would prefer my neighborhood receive a different treatment. Can my neighborhood ask to receive something other than what we are scheduled to receive?**

If you have questions or comments about the pavement treatment that has been identified for your neighborhood, please contact the Street Transportation Department at 602-262-6284.

### **When can I expect work to begin on my street?**

Exact work dates are generally not available until 30 days prior to work beginning as contractors set schedules based on personnel and equipment availability. Contractors will distribute a notice to each resident in a neighborhood approximately 2 days prior to work starting as a general notification that your street has been identified for treatment.

### **How long are streets in Phoenix designed to last?**

The average lifespan of an asphalt street is 25 years and when properly maintained with surface treatments it can last 35 +/- years.

## QUESTIONS & COMMENTS

If you have general questions or comments pertaining to the City's pavement preservation program, contact the Street Transportation Department 602-262-6284 or email [Streetsp@phoenix.gov](mailto:Streetsp@phoenix.gov)

To report a pothole or street maintenance, contact the Street Transportation Dispatch Maintenance Office at 602-262-6441 or email [Dispatch@phoenix.gov](mailto:Dispatch@phoenix.gov)