



CITY COUNCIL AGENDA ITEM BRIEFING SHEET

Council Date: September 23, 2025	Department: Public Works	Presented By: Gretchen Vazquez Chase McBride
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AGENDA ITEM: Presentation on the City of Willow Park Pavement Management Plan

BACKGROUND:

On October 22nd, 2024, the City Council approved a contract with IMS Infrastructure Management Services to conduct a pavement condition survey and assessment of all city streets.

The objective of the survey was to collect 66 test miles of roadway condition data. The data collected will help staff determine the most effective and economical ways to approach pavement maintenance to extend the useful life of roadways.

IMS Infrastructure Management Services utilized a cutting-edge Integrated Road Information System (IRISpro Pave) to capture continuous, high-resolution pavement images that were used to assess pavement cracking, rutting, and roughness on 66 miles of asphalt and concrete roadways in Willow Park.

Each roadway surveyed was scored on a scale of 0 to 100 where 0 represents a completely failed pavement and 100 represents a pavement in perfect condition. The overall network pavement condition index (PCI) score for Willow Park was 68 at the time of the survey. The City's backlog was found to be 8%.

City staff engaged with IMS Infrastructure Management Services throughout the study process. Staff provided GIS data to IMS and met with IMS to discuss current budget and maintenance strategies.

IMS Infrastructure Management Services developed different funding scenarios and compared those to the City's pavement model. The model considers the current PCI of each roadway and factors in the rate at which roadways will deteriorate based on average pavement life assumptions with specific treatment scenarios applied.

Currently, the City budgets approximately \$155,000 annually for street repairs. If this level of funding were to continue, the City's average roadway PCI would drop from a score of 68 to a score of 61 and a backlog of around 14% after five years. To maintain the current PCI score of 68, the City would need to allocate \$1.96 million annually to fund pavement maintenance. If the City does nothing and defers pavement maintenance, the PCI score would drop below 60 within the next 5-years.

CONCLUSION:

The Pavement Management Report provides the City of Willow Park with a scientific tool for implementing strategic and cost-effective street maintenance plans. It allows the Public Works Department to strategically plan and prioritize roadway maintenance.

Moving forward, the City Council will need to determine what PCI score is appropriate for Willow Park and determine the appropriate funding levels. Funding can come from a variety of sources. Currently, street maintenance is performed out of the General Fund. Some cities in Texas have enacted street maintenance fees to help cover the cost of roadway maintenance. Doing so would allow the City to clear some of the backlog of pavement maintenance and extend the life of the City's roadway infrastructure.

RECOMMENDATION:

No action is requested at this time. This presentation is for informational purposes only. Future discussions will need to be held to determine Council's expectations for roadway maintenance and to identify appropriate funding levels.

EXHIBITS:

Pavement Management Plan and Budget Analysis Presentation
Willow Park Pavement Management Report IMS 2025