



**DATE:** September 18, 2023

**TO:** Honorable Mayor and City Councilmembers  
David Perrault, City Administrator

**FROM:** David Swearingen, P.E. Public Works Director / City Engineer

**SUBJECT:** Professional Services for Pavement Condition Data Collection

Budgeted Amount:  
\$20,000

Actual Amount:  
\$34,000

Funding Source:  
Street & Trail Maintenance (PIR)

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**Council Should Consider**

The City Council is requested to consider professional services with Infrastructure Management Services (IMS) for gathering pavement condition data for streets and trails in the amount of \$34,000.

**Background/Discussion**

Pavement condition ratings are one of the main tools used for planning future pavement improvements and determining the best method for maintaining streets and trails, such as seal coating, resurfacing or reconstruction. Pavement condition surveys for streets have traditionally been conducted every three years and were last performed in 2021 via automated method with IMS. Pavement condition surveys for trails have traditionally been conducted every 6 years and were last performed in 2017 via visual inspection by Public Works staff.

Using the visual approach by field staff can be subjective and inconsistent due to variations between individuals performing the evaluation and the selected observation locations. Staff has previously noted concerns with the consistency and accuracy of existing pavement condition ratings.

In 2021, in an effort to improve the data collection process for City streets, staff solicited a proposal from IMS to collect pavement condition ratings through automated vehicle mounted equipment using a laser-camera array that eliminates subjectivity of the data collection process. Pavement data can be easily transferred to the City’s ICON software which is used to store and evaluate the historical data of Arden Hills’ pavement system. The automated process by IMS also improves safety by minimizing the time personnel are working on the streets collecting the necessary measurements needed through visual evaluation.

City staff has heard interest from the PTRC and Councilmembers to include trails along with the streets for the automated survey in 2024. IMS provided the quote in Attachment A which would address both City streets and trails.

### **Budget Impact**

The proposed 2024 operating budget for Public Works street maintenance has \$20,000 allocated for the automated survey and was determined by past practice for this process which only included streets. To include trails in 2024, the budget would need to increase by \$14,000 to cover the proposed quote as shown in Attachment A.

### **Attachments**

Attachment A: Proposal and Quotation from IMS