

## STAFF REPORT

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**Date:** April 12, 2023

**To:** Mayor and City Council

**Thru:** Doug Thornley, City Manager

**Subject:** Staff Report (For Possible Action): Approval of Consultant Agreement for Professional Services with NCE for the 2023 Pavement Condition Data Collection Project in an amount not to exceed \$190,415. (Street Fund)

**From:** Hans Meyer, Senior Civil Engineer

**Department:** Public Works

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### **Summary:**

The City utilizes a Pavement Management Program to evaluate the City's pavement network condition and then program maintenance and rehabilitation of neighborhood streets. This Program depends on complete, accurate, and reliable pavement condition data. This item is a consultant agreement with NCE to provide pavement condition data collection services for 2023 on neighborhood roads. The Regional Transportation Commission (RTC) will continue to inspect regional roads and those roads are excluded from this contract. Staff recommends Council approval of the agreement with NCE in an amount not to exceed \$190,415.

The funding needed for this consultant agreement is included in the City's Capital Improvement Plan (CIP) and supports the Council's goal of improving the City's infrastructure.

### **Alignment with Strategic Plan:**

Infrastructure, Climate Change, and Environmental Sustainability – analyzing existing infrastructure condition to maintain and improve transportation connectivity

Public Safety – maintaining transportation safety along roadways

### **Previous Council Action:**

There is no recent Council action relevant to this item.

### **Background:**

The City of Reno has a network of approximately 763 miles of roads, with approximately 30% of these being regional roads and the remaining consisting of neighborhood streets. The Pavement Management group of Public Works uses a pavement management system to assist in

evaluating pavement condition, serviceable life, and maintenance strategies for City streets. An effective pavement management system depends on complete, accurate, and reliable information about pavement inventory and its condition. Pavement condition data is a key component of this program.

The City is divided into three management zones: Northwest-Verdi-Stead, Southwest, and Northeast-Southeast. City staff analyze pavement condition within these zones, rotating clockwise throughout the City. Inspectors perform a “boots on the ground” visual inspection of streets using the American Society for Testing and Materials (ASTM) standards. Cities and counties throughout the United States and around the world use this method, ASTM D6433-20. Using this method, inspectors collect data about the type, severity, and quantity of distresses in the pavement. Staff then inputs this information into a computer program that calculates the pavement condition index, or PCI. The index ranges from zero for a failing pavement to 100 for a pavement in excellent condition. PCI surveys are an objective method for rating a pavement’s condition and are used by Public Works Engineers to budget for maintenance and rehabilitation projects.

**Discussion:**

The scope of services with NCE includes performing pavement condition surveys in accordance with established standards on the City’s local roads. The focus of this scope is within the Southwest, and Northwest-Verdi-Stead management zones of the City. RTC, under their pavement management program, will continue to collect condition surveys on regional roads. Therefore, regional road condition assessments are excluded from this contract. After the condition data is collected, NCE will enter this pavement data into the City’s PAVER software system. Also, NCE will perform QA/QC checks on the pavement data, including comparing pavement condition to historical values, random spot checks on data entry, and setting up data collection sample units for new roadways.

City staff have traditionally completed pavement data inspections. However, with increased inspection workload in other Capital Projects programs, pavement condition inspection services need to be completed by a consultant. The consequences of not approving this agreement today will result in decreased quality of pavement condition data for City streets.

**Financial Implications:**

Funding for this Agreement will be from the Street Fund.

**Legal Implications:**

Nevada law prohibits the competitive bidding of engineering, architectural or land surveyor services; therefore, the City of Reno, Public Works Department has established a selection process based on competence and qualifications. NCE was selected from the City's pre-qualified list of consultants from the 2022 list. The parties are bound by the terms of the agreement as prepared by the Office of the City Attorney.

**Recommendation:**

Staff recommends Council approval of the consultant agreement with NCE for the 2023 Pavement Condition Data Collection Project, in an amount not to exceed \$190,415 and authorize the Mayor to sign.

**Proposed Motion:**

I move to approve staff recommendation.

**Attachments:**