May 19, 2021

Working Session/Common Council

RE: Request Authorization to Seek Proposals for Engineering Services for Data Collection for 2021 Pavement Condition Index Project No. 21-2656/CIP # 51327

The City has approximately 400 miles of paved streets to maintain within the City limits, and every two years a Pavement Condition Index (PCI) map is updated. Currently, the process to update the PCI is for two Engineering Services staff members to physically drive every foot of paved roadways, then each person assigns the street segment a PCI number ranging from 0 to 100 (0 being the worst and 100 being a newly paved roadway). These two numbers are averaged and the final result is manually input into a GIS database. The rating scale is based on SDDOT pavement distress survey criteria. Once the entire City is rated, the GIS database is given to an Engineering Services GIS Project Manager who creates a PCI map for use by City Staff to assist with planning future projects. The entire process typically takes around 4 months to complete and this subjective data collection method leaves much room for discrepancies based on individual opinions and staffing changes.

Staff proposes to hire a consultant to complete asset data collection services for the bi-annual PCI update scheduled for 2021 collection through the use of automated pavement data collection and assessment services compatible with our GIS software. By hiring a consultant with appropriate software, the City’s PCI data collection process will be more streamlined and provide more consistent results.

The project is funded from the CIP – Streets (8910) fund. The project budget is $125,000 and staff proposes for the data collection to occur in the fall of 2021.

Sara Odden, PE
Project Manager

Cc: Dale Tech, PE/PLS, Public Works Director