CITY COUNCIL REGULAR SESSION

Resolution authorizing the continuation of an existing software maintenance agreement with Advantech Design, Inc, for an additional amount of $67,058.00, plus all applicable taxes, for a total contract amount not to exceed $153,968, plus all applicable taxes, for Travel-Time Reporting and Integrated Performance System (TRIPS) software licensing, technical support and software updates in support of the City's Smart Mobility Plan Implementation Program (CIP Plan No. PW-R-156).

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Transportation Department

EXECUTIVE SUMMARY

Transportation ITS staff use TRIPS software to support the department's efforts of data informed decision making and performance metrics by providing travel time data prediction for all major signalized roadways. The software maintenance agreement will provide up to four years of additional software licensing, technical support and updates.

RECOMMENDATION

Move to adopt Resolution No. 9960.

BACKGROUND/ANALYSIS

Beginning in 2010, Bellevue deployed an adaptive traffic signal system called Sydney Coordinated Adaptive Traffic System (SCATS) at all signalized intersections. SCATS improves the efficiency of signal operations by continuously monitoring real-time conditions and adjusting the signal timing. As part of the ongoing efforts to measure the performance of the City's roadway networks, Bellevue staff is updating its performance metric to monitor and quantify congestion on our roadways by adding additional travel time performance metrics.

TRIPS is a software that integrates directly with SCATS to calculate travel time on signalized roadways. The software utilizes the data collected by SCATS to provide 24/7 performance monitoring and historical data. Transportation staff have historically collected travel time data by manually conducting field studies by driving a corridor or by deploying roadside hardware. TRIPS is more time efficient and provides more data than manual field studies and is more cost effective for a Citywide system and has lower maintenance costs than a hardware system installed in the field.

The original software contract was $86,900 plus applicable taxes for the software licensing, implementation, system configuration, integration of new requested features, employee training, and system calibration and validation. This was completed in 2020. To provide continuing performance monitoring, software maintenance under the agreement will continue for up to an additional four years as agreed upon in the initial system purchase agreement Addendum C for total additional cost of $67,068.

POLICY & FISCAL IMPACTS

Policy Impact
Bellevue City Code chapter 4.28 provides for the fair and equitable treatment of all persons involved in the purchasing process. Council approval is required because the new contractor amount with the amendment exceeds $90,000.

Fiscal Impact
This action obligates the City up to an additional $67,068, plus all applicable taxes, for up to four years of software licensing, technical support and updates to the TRIPS software that integrates directly with the City's SCATS to calculate travel time on signalized roadways for a total contract amount not to exceed $153,968, plus all applicable taxes. Sufficient funding exists in the 2021-2027 Smart Mobility Plan Implementation Program (CIP Plan No. PW-R-156) to fund this contract.

OPTIONS

1. Adopt the Resolution authorizing the continuation of an existing software maintenance agreement with Advantech Design, Inc, for an additional amount of $67,058.00, plus all applicable taxes, for a total contract amount not to exceed $153,968, plus all applicable taxes, for Travel-Time Reporting and Integrated Performance System (TRIPS) software licensing, technical support and software updates in support of the City's Smart Mobility Plan Implementation Program (CIP Plan No. PW-R-156).
2. Do not adopt the Resolution and provide alternative direction to staff

ATTACHMENTS & AVAILABLE DOCUMENTS

A. CIP Project Description (PW-R-156)
Proposed Resolution No. 9960

AVAILABLE IN COUNCIL LIBRARY

TRIPS System Purchase Agreement