

AGENDA ITEM #: \_\_\_\_\_

DATE: November 16, 2020

CAR #: 2020-7041



## CITY COUNCIL ACTION REPORT

**SUBJECT:** Approve an Intergovernmental Agreement with the State of Arizona for the installation of Intelligent Transportation System Equipment at the Traffic Management Center and Estrella/PebbleCreek Parkway from MC 85 to Indian School Road and related budget transfers.

**STAFF PRESENTER(S):** Hugh Bigalk, City Traffic Engineer;

**OTHER PRESENTER(S):**

**Summary:** Consider approving an Intergovernmental Agreement (IGA) with the Arizona Department of Transportation (ADOT) establishing responsibility for funding, purchasing, installing and maintaining of the Intelligent Transportation System (ITS) Equipment at the City of Goodyear Traffic Management Center (TMC) and along Estrella Parkway/PebbleCreek Parkway from MC 85 to Indian School Road. Also approve related budget transfers to create a capital project and to allocate Highway User Revenue Fund (HURF) savings and asset management funds to provide the funding needed for the city share of the project costs.

### Recommendation:

1. ADOPT RESOLUTION NO. 2020-2091 APPROVING AN INTERGOVERNMENTAL AGREEMENT WITH ARIZONA DEPARTMENT OF TRANSPORTATION FOR THE UPGRADE OF THE TRAFFIC SIGNAL MANAGEMENT SOFTWARE AND NETWORKING EQUIPMENT ALONG ESTRELLA/PEBBLECREEK PARKWAY FROM MC85 TO INDIAN SCHOOL ROAD, PROVIDING AUTHORIZATION, DIRECTION, AND AN EFFECTIVE DATE.
2. Approve budget transfer(s) to establish a capital project and to allocate HURF and Traffic Asset Management funds to provide the city share of the costs.

### Fiscal Impact:

The \$130,000 city share shown in Table 1 below for this project is funded from \$90,400 budgeted in FY2021 Traffic Asset Management funds for the portions of this equipment that were planned for replacement this fiscal year. The remaining \$40,400 in funding is provided through \$24,100 in deferrals of other replacements in the Traffic Asset Management program and \$16,300 from savings in the HURF traffic signal maintenance budget. This \$16,300 represents the environmental expense and city share of the new, rather than replacement equipment in this project.

**Table 1  
Project Costs**

<b>Item</b>	<b>City</b>	<b>ADOT (Federal)</b>	<b>Total</b>
Design: ADOT Plan Review	\$ 30,000	\$ 0	\$ 30,000
Design: Environmental	6,000	0	6,000
Construction	94,000	1,553,900	1,647,900
<b>Total Cost:</b>	<b>\$ 130,000</b>	<b>\$ 1,553,900</b>	<b>\$ 1,683,900</b>

In addition to the new assets funded, the federal funded portions of the project advances \$488,000 in other replacements by one to six years. These advancements may result in an increases in General Fund contributions to that asset management fund for several years. However, this is a one-time effect of the advancements.

Because the project cost is in excess of \$100,000 this meets the criteria to be budgeted and accounted for as a capital project. Budget transfers are required to create the project and add the HURF and Traffic asset management funds to the new Estrella/PebbleCreek Parkway & TMC ITS Project (Project 42031). Table 2 below provides the planned completion dates for the phases for the project that is planned for completion by June 2021.

**Table 2  
Project Schedule**

<b>Phase</b>	<b>Start</b>	<b>End</b>
Design	November 2020	March 2021
Construction	April 2021	June 2021

The City is responsible for the operation and maintenance of the ITS Equipment which is funded in the HURF base operating budget and future replacements will be incorporated into the Traffic Signal Asset Management Plan.

## **Background and Previous Actions**

There has not been any Council discussion or prior action related to this item.

## **Staff Analysis**

In June 2019 the Maricopa Association of Governments (MAG) issued a call for qualified ITS Projects to use federal Congestion Mitigation and Air Quality (CMAQ) funds. The City submitted multiple projects and the Estrella/PebbleCreek Parkway & TMC Equipment Project was approved by MAG Regional Council in February 2020.

The project will advance replacement of existing, outdated traffic signal controllers and video detection equipment at sixteen intersections and install vehicle travel time hardware at eighteen intersections along Estrella/PebbleCreek Parkway. The new traffic signal controllers and video detection systems will modernize the City's traffic signals by providing enhanced performance and diagnostic information to the City's TMC. Traffic signal monitoring/control software at the TMC will also be upgraded to utilize the enhanced functions of the new equipment being installed with this project. The software combined with the vehicle travel time hardware will allow TMC staff to measure performance of the coordinated arterial roadways and report their performance. It will also allow TMC staff to evaluate and adjust traffic signal coordination based on how traffic is moving along a coordinated arterial roadway.

An initial payment of \$30,000 is due to ADOT 30 days after execution of the IGA for Project Development Administration (PDA). Design of the project will be performed by City of Goodyear staff and the environmental analysis performed by a consultant which is estimated to cost \$6,000. ADOT will advertise, bid, award and administer the construction of the project. The construction phase of the project will be in FY2021 with an estimated cost of \$1,647,800, which includes \$1,553,900 of federal funding. The City's obligation for the construction phase is \$94,000. The project is anticipated to be completed by the end of FY2021. If the actual PDA costs or the overall project costs exceed the initial estimates then the City will be responsible for any additional costs above the initial estimates.

## **Attachments**

Intergovernmental Agreement  
Exhibit A