



# Memorandum

**TO:** HONORABLE MAYOR  
AND CITY COUNCIL

**FROM:** John Ristow  
Margaret McCahan

**SUBJECT:** TRANSPORTATION FUND FOR  
CLEAN AIR (TFCA) GRANT  
FUNDING AGREEMENT 2018-2019

**DATE:** November 9, 2018

Approved

Date

11-13-18

## RECOMMENDATION

- 1) Adopt a resolution authorizing the City Manager or designee to execute a Transportation Fund for Clean Air (TFCA) grant agreement with the Santa Clara Valley Transportation Authority (VTA) in an amount not to exceed \$754,423.
- 2) Adopt the following 2018-2019 Funding Source Resolution and Appropriation Ordinance amendments in the Building and Structure Construction Tax Fund:
  - (a) Increase the estimate for Revenue from Local Agencies by \$664,000; and
  - (b) Establish the TFCA Signal Retiming appropriation to the Department of Transportation (DOT) in the amount of \$664,000.

## OUTCOME

The grant will provide 100% reimbursable funds to retime and synchronize 166 traffic signals located along regionally significant corridors, and to procure and install 300 bike racks and two bike lockers throughout the city.

## BACKGROUND

DOT reviews and retimes traffic signals on a regular basis to reduce traffic congestion and to optimize safe and efficient travel for all modes, including walking, biking, driving and transit. Staff use factors such as citizen complaints, surrounding land use changes, and travel demand or roadway characteristic changes to identify signals to be retimed each year. The number of signals retimed each year is limited by the availability of funds and staff resources and involves a manual process for identifying signals in need of retiming; collecting traffic data at each intersection, and developing software modeling to simulate performance. Signal retiming currently occurs on a three-to-five year cycle, primarily due to the size of the citywide signal

system, and associated retiming costs of approximately \$4,500 per intersection. Per the Federal Highway Agency, signal synchronization is one of the most cost effective ways to reduce traffic congestion, with a typical cost benefit ratio of 1:40.

To mitigate congestion and to address the growing travel demands resulting from population and job growth in the city, City Council adopted Bike Plan 2020 to make bicycling an integral part of daily life in San José. The goals of Bike Plan 2020 include providing 5,000 additional bike parking spaces by 2020. As of July 2018, 3,900 bike parking spaces have been installed.

## **ANALYSIS**

DOT actively pursues grant funds for projects that support the City's transportation goals. In March 2018, DOT submitted two applications for funding consideration under the TFCA Program Manager 40% fund administered by VTA. TFCA is a Bay Area Air Quality Management District (BAAQMD) program funded by a surcharge of \$4.00 on motor vehicle registration fees paid within its jurisdiction. The surcharge revenues are to be used to implement specified transportation control measures that are included in the BAAQMD's Clean Air Plan, developed and adopted pursuant to the requirements of the 1988 California Clean Air Act.

TFCA provides grants to local governments for projects that will reduce air pollution and improve bike and pedestrian facilities. Sixty percent of the annually available funds are administered by the BAAQMD and the remaining forty percent are returned to Bay Area counties, which in Santa Clara County are administered by VTA and are awarded on a competitive basis.

On September 5, 2018, the BAAQMD board approved VTA's recommendation to award a total of \$754,423 TFCA funds to the City. The grant funds will provide for the following:

**San Jose Signal Timing** – 166 traffic signals located along 18 regionally significant corridors will be retimed and synchronized. The corridor segments fall into one of three categories:

1. Transit Hub - 42% of signals are located along high frequency transit corridors and near the new Berryessa BART station.
2. Complete Street/Bikeway - 22% of signals fall along corridors where roadways have been reconfigured to add bike lanes or enhanced/protected bike facilities.
3. Regional Access to Freeway - 36% of signals are located along commute corridors that interface with the State Highway system and the County of Santa Clara Expressways.

Project components include collecting traffic volume and turning movement counts, retiming and synchronization of signals for three peak periods for weekday, and where warranted, weekend timing plans, based on current and anticipated traffic patterns and volumes. Yellow time, red light clearance, and pedestrian crossing time will be evaluated for safety and accessibility, especially around major pedestrian generators, such as schools, community centers, and libraries.

The signal retiming and synchronization work will reduce congestion, vehicle stops and delays. Travel times are expected to improve by 15% along retimed corridors, eliminating greenhouse gas emissions (CO<sub>2</sub>) by at least 1,800 tons. The grant project will be completed by June 2020.

***San Jose Bike Racks*** – 300 bike racks and two bike lockers will be purchased and installed throughout the city. With each rack having the capacity to park two bicycles, and each locker holding four bicycles, this grant will add an additional 608 bicycle parking spaces to the City's public bicycle parking program. San José has successfully piloted a program to install publicly available bike racks on private property. Locations are selected based on community requests, as well as being proactively installed near bikeways and in business communities. It is anticipated that a majority of the bike racks and bike lockers funded by this grant will also be installed on private property for use by the public. The budget actions for this project were included as part of the 2017-2018 Annual Report.

#### **EVALUATION AND FOLLOW-UP**

This memorandum will not require further follow-up.

#### **PUBLIC OUTREACH**

This memorandum will be posted on the City's website for the November 27, 2018 City Council meeting.

#### **COORDINATION**

This memorandum has been coordinated with the City Attorney's Office and the Planning, Building, and Code Enforcement Department.

#### **COMMISSION RECOMMENDATION/INPUT**

This item does not require input from a board or commission.

**COST SUMMARY/IMPLICATIONS**

The work required in this agreement will be 100% reimbursed through the \$754,423 TFCA grant. The funding of \$754,423 covers two projects: Signal Timing and Bike Racks. Budget actions to appropriate funds and recognize revenue in the amount of \$90,000 for the Bike Rack project were included in the 2017-2018 Annual Report. The budget actions included in this memo appropriate funds and recognize revenue for the balance of grant funding (\$664,000) since both projects are included in the same grant agreement. Total project cost for the Signal Retiming project is \$747,000, of which \$664,000 will be paid for by the grant. Remaining \$83,000 in project cost will be funded from our CIP Traffic Flow Management & Signal Retiming appropriation. Costs are detailed below for each project.

AMOUNT OF RECOMMENDATION COST (SIGNAL TIMING)

<b>CORRIDORS</b>	<b>COST</b>
Berryessa Rd	\$28,000
Hedding St	\$40,000
Jackson Av	\$52,000
King Rd	\$28,000
Lundy	\$24,000
Mabury Rd	\$20,000
Oakland Rd	\$44,000
Taylor St	\$36,000
Aborn Rd	\$32,000
Branham Ln	\$40,000
Santa Teresa Bl	\$36,000
Winchester Bl	\$48,000
Bird Av/ Montgomery St	\$44,000
Blossom Hill	\$16,000
Brokaw Rd/Hostetter	\$68,000
Coleman	\$64,000
Stevens Creek	\$24,000
Story	\$20,000
<b>Total</b>	<b>\$664,000</b>

AMOUNT OF RECOMMENDATION COST (BIKE RACK)

Bike Racks	\$60,000
Bike Lockers	\$29,000
Staff Time	\$1,423
<b>Total</b>	<b>\$90,423</b>

**BUDGET REFERENCE**

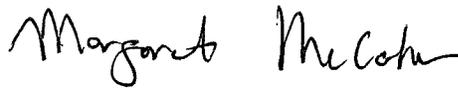
The table below identifies the fund and appropriations to support the Agreement.

Fund #	Appn #	Appn Name	Current Total Appn	Budget Action	2018-2019 Adopted Capital Budget Page	Last Budget Action (Date, Ord. No.)
429	TBD	TFCA Signal Retiming	\$0	\$664,000	N/A	N/A
429	R090	Revenue from Local Agencies	\$514,000	\$664,000	V-813	10/16/2018, 78825

**CEQA**

Not a Project, File No. PP17-006, Grant Application with no commitment or obligation to enter into an agreement at the time of application; and File No. PP17-004, Government Funding Mechanism or Fiscal Activity with no commitment to a specific project which may result in a potentially significant physical impact on the environment.

/s/  
JOHN RISTOW  
Acting Director of Transportation

  
MARGARET MCCAHAN  
Budget Director

I hereby certify that there will be available for appropriation in the Construction Excise Tax Fund in 2018-2019, monies in excess of those heretofore appropriated therefrom, said excess being at least \$664,000.

  
MARGARET MCCAHAN  
Budget Director

For questions, please contact Lily Lim-Tsao, DOT Division Manager, at (408) 975-3269.