



Metro

Los Angeles County
Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952

213.922.2000 Tel
metro.net

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TO: BOARD OF DIRECTORS

THROUGH: PHILLIP A. WASHINGTON *PAW*
CHIEF EXECUTIVE OFFICER

FROM: THERESE W. MCMILLAN *T.W.M.*
CHIEF PLANNING OFFICER *JK*

SUBJECT: SCOPE CHANGE OF ADAPTIVE TRAFFIC CONTROL NETWORK – PHASE II

ISSUE

As part of the 2013 Call for Projects, the Metro Board authorized the programming of \$1,657,413 of Proposition C 25% funds to the City of Pasadena for Call for Project ID# F7318, Adaptive Traffic Control Network – Phase II (the "Project"). The City of Pasadena has requested the following scope change:

	Original Scope	Recommended Scope Changes
Project Limits	The Project is located in the City of Pasadena on California Blvd between St. John Ave and Lake Ave (12 intersections), Del Mar Blvd between St. John Ave and Oak Knoll Ave (ten intersections), Arroyo Parkway between Union St and Fillmore St (13 intersections), and Foothill Blvd between Sierra Madre Blvd and Michillinda Ave (eight intersections). It will install adaptive traffic control capabilities along	Remove: Arroyo Parkway between Union St and Fillmore St (13 intersections) Replace: Lake Avenue between San Pasqual St to Orange Grove Blvd (13 intersections)

	Original Scope	Recommended Changes Scope
	the listed corridors. Work at each of these 43 intersections will entail cabinet and controller upgrades, adaptive traffic control hardware set-up and software licensing, and all necessary communication hardware to connect to the City's fiber optics infrastructure. This project will expand the City's existing adaptive traffic control system coverage from a single corridor to multiple corridors through creating an adaptive traffic control network. Funds are requested for design and construction costs.	
Total Project Cost	\$2,071,766	\$2,071,766
Metro Grant Amount	\$1,657,413	\$1,657,413
Local Match Amount	\$414,353	\$414,353

Staff will administratively approve the change in scope, if there are no Metro Board comments received by January 10, 2018.

DISCUSSION

As part of Metro's 2013 Call for Projects, The City of Pasadena was awarded \$1,657,413 programmed in Fiscal Year (FY) 2017-18 and FY 2018-19 for the Call for Project ID# F7318, Adaptive Traffic Control Network Phase II, with the City of Pasadena contributing \$414,353 (20%) as local match funds. The total project cost is \$2,071,766.

The Project will expand the City's existing adaptive traffic control system coverage from a single corridor to multiple corridors, thus creating an adaptive traffic control network. The general objective is to replicate the benefits of adaptive traffic operations efficiencies, which is only at one corridor currently, and expanding in to other key mobility corridors. The expansion would replicate operational efficiencies along Fair Oaks Avenue, and would provide benefits citywide.

The City secured funding in 2015 to outfit adaptive traffic control at corridors adjacent to Metro stations, which included most of the intersections along Arroyo Parkway, as originally scoped under this Project. The recommended segment of Lake Avenue is a good alternative as it exhibits high levels of congestion due to its crossings with major corridors. In addition, since Lake Avenue is equipped with the necessary communications and traffic control hardware, there are no anticipated increases in project cost or changes to other elements in the scope of work.

NEXT STEPS

Staff will administratively approve the scope change, if no Metro Board comments are received by January 10, 2018. Furthermore, staff will execute a funding agreement with the City of Pasadena.