

**CITY OF PEORIA, ARIZONA  
COUNCIL COMMUNICATION**

**CC:** \_\_\_\_\_  
**Amend No.** \_\_\_\_\_

**Date Prepared:** June 30, 2010

**Council Meeting Date:** August 17, 2010

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**TO:** Carl Swenson, City Manager

**THROUGH:** Susan J. Daluddung, Deputy City Manager

**FROM:** Jamal Rahimi, P.E., City Traffic Engineer

**SUBJECT:** Authorize an expenditure with ITS Engineers and Constructors to install a hybrid wireless/fiber communications system in the northern portion of Peoria (Statewide ADOT Wireless Networking Contract T06-59-A00015)

**RECOMMENDATION:**

Discussion and possible action to authorize an expenditure in an amount not to exceed \$432,870 utilizing an existing State Contract with ITS Engineers and Constructors for the installation of a hybrid wireless/fiber communications system.

**SUMMARY:**

The installation will provide connectivity for 36 signalized intersections to the City of Peoria Traffic Management Center (TMC), as shown on the attached vicinity map. Five additional intersections (shown on attached vicinity map) will be connected through the projects listed below, which will result in the City having 103 signals connected to the TMC (out of 106):

- 83<sup>rd</sup> Avenue Widening (83<sup>rd</sup> Avenue / Pinnacle Peak Road)
- Beardsley Connector (83<sup>rd</sup> Avenue / Beardsley Road, 83<sup>rd</sup> Avenue / Oraibi Drive and 83<sup>rd</sup> Avenue / Village Parkway)
- 91<sup>st</sup> Avenue and Olive Avenue Intersection Improvements (91<sup>st</sup> Avenue / Olive Avenue)

This Project will install:

- 96 strands of fiber cable on Cactus Road, from 87<sup>th</sup> Avenue to 71<sup>st</sup> Avenue;
- 96 strands of fiber cable on Lake Pleasant Parkway, from Happy Valley Road to Westwing Parkway; and
- 96 strands of fiber cable on Westwing Parkway, from Lake Pleasant Parkway to Jomax Road.

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**CITY CLERK USE ONLY:**

- Consent Agenda
- Carry Over to Date: \_\_\_\_\_
- Approved
- Unfinished Business (Date heard previous: \_\_\_\_\_)
- New Business
- Public Hearing: No Action Taken

**ORD. #** \_\_\_\_\_ **RES. #** \_\_\_\_\_  
**LCON#** \_\_\_\_\_ **LIC. #** \_\_\_\_\_  
**Action Date:** \_\_\_\_\_

Traffic signals that are not directly connected to the fiber will be connected via a wireless radio connection.

Federal funding was approved through an Intergovernmental Agreement with the Arizona Department of Transportation on October 6, 2009 (LCON08509). Payment will be made as follows:

Federal Funds	\$296,548.00
City funds	<u>\$136,321.87</u>
Total	\$432,869.87

Staff worked with Materials Management and selected one of the City's job order contractors, ITS Engineers and Constructors, for the installation of a hybrid wireless/fiber communications system.

**FISCAL NOTE:**

Payment will be from Transportation Sales Tax, Street System Account Number 7010-7075-543001-CIPTC-PW00133 (\$136,321.87) and Outside Sources Account Number 4810-4810-543001-CIPTC-PW00133 (\$296,548.00).

**ATTACHMENT**

Vicinity Map

**CONTACT:** Jamal Rahimi at 623-773-7224



NOT TO SCALE

DOVE VALLEY RD

LONE MOUNTAIN RD

MONTGOMERY RD

DIXILETA DR

PEAK VIEW RD

DYNAMITE BL

PINNACLE VISTA DR

JOMAX RD

YEARLING RD

HAPPY VALLEY RD

CALLE LEJOS

PINNACLE PEAK RD

WILLIAMS RD

DEER VALLEY RD

ROSE GARDEN LN

BEARDSLEY RD

UTOPIA RD

UNION HILLS DR

GROVERS AVE

BELL RD

PARADISE LN

GREENWAY RD

ACOMA DR

THUNDERBIRD RD

SWEETWATER AVE

CACTUS RD

CHOLLA ST

PEORIA AVE

MOUNTAIN VIEW RD

OLIVE AVE

BUTLER DR

NORTHERN AVE

**LEGEND**

● Hybrid Wireless/Fiber Communications System

● Other Projects In-Progress



**VICINITY MAP**

115TH AVE  
111TH AVE  
107TH AVE  
103RD AVE  
99TH AVE  
95TH AVE  
91ST AVE  
87TH AVE  
83RD AVE  
79TH AVE  
75TH AVE  
71ST AVE