



CITY COUNCIL AGENDA REPORT

MEETING DATE: JANUARY 6, 2015

ITEM NUMBER: CC-4

SUBJECT: PROFESSIONAL ENGINEERING SERVICES FOR THE UPDATE OF THE CITY'S PAVEMENT MANAGEMENT PROGRAM

DATE: DECEMBER 18, 2014

FROM: PUBLIC SERVICES DEPARTMENT/ENGINEERING DIVISION

PRESENTATION BY: ERNESTO MUNOZ, PUBLIC SERVICES DIRECTOR

FOR FURTHER INFORMATION CONTACT: FARIBA FAZELI, CITY ENGINEER, (714) 754-5335

RECOMMENDED ACTION:

Award a contract to Bucknam Infrastructure Group, Inc., 3548 Seagate Way, Suite 230, Oceanside, California 92056, in an amount not to exceed \$88,475 for annual updates to the City's Pavement Management Program, and authorize the Mayor and the City Clerk to execute the Professional Services Agreement (Attachment 1).

BACKGROUND:

The City uses a Pavement Management Program (PMP) to systematically organize and analyze extensive amounts of pavement evaluation and inspection data to assess the condition of the City's street network. The City's street system is the largest and most complex asset the City owns and operates. The PMP is based on management and pavement engineering algorithms that assist staff in identifying cost-effective strategies for the network's maintenance and rehabilitation.

Each local jurisdiction in Orange County is required to adopt and fund a Pavement Management Program (PMP) in order to be eligible to receive Measure "M2" funding. Cities are required to submit a biennial Pavement Management Program update to the Orange County Transportation Authority (OCTA), as outlined in the Countywide Pavement Management Program Guidelines Manual. The next PMP update is due to OCTA on June 2016. As part of the update, the City is required to survey the pavement condition of each arterial street every two years and local streets every six years.

ANALYSIS:

The City's street network consist of approximately 247.6 centerline miles of paved streets and alleys. The network is divided into three segments: Master Plan of Arterial Highways (MPAH), Local Streets, and Alleys.

There are 80.3 centerline miles of MPAH roadways, 152.3 centerline miles of local residential roads, and 15.0 centerline miles of alleys.

The pavement condition of the arterial roads was last surveyed in 2013 and the residential network in 2010. The Final Report for the updated Citywide Pavement Management Program was last submitted to OCTA in June 2014.

In order to meet OCTA Measure M2 funding requirements, the City must re-survey the arterial roads in 2015, 2017, and again in 2019; and the local streets in 2016, and make Final Report submittals to OCTA in 2016, 2018, and 2020 within the next six years.

The required pavement evaluation services for the project are extensive and necessitate expertise and equipment not available in-house. Staff advertised the Request For Proposals (RFP's) for these services on September 26, 2014 and received four proposals on October 17, 2014.

The scope of work for this project consists of analyzing the existing pavement conditions for approximately 247.6 miles of City streets and alleys for the next six years. These tasks shall include, but are not limited to the following items:

- Review all maintenance and rehabilitation activities previously conducted by the City as recommended in the last Pavement Management Program
- Collect and record extensive pavement distress data. Input pavement distress data into the City's database and calculate the Pavement Condition Index (PCI) for each segment utilizing the latest version of OCTA's approved pavement management software.
- Verify database information against City's GIS database information to add, delete, and/or correct segments, as needed
- Forecast future PCI values for each segment and create budget scenarios for each network
- Develop a 7-year maintenance and rehabilitation strategy
- Prepare final Pavement Management Program Reports per OCTA guidelines

All proposals received were reviewed for compliance with the City's RFP's, and the consultants were evaluated based on project understanding, depth of experience, technical expertise, ability to meet the schedule, and associated factors.

After careful review of all proposals, staff has selected Bucknam Infrastructure Group, Inc. as well qualified to perform the work. The company's Project Manager exhibited a thorough understanding of the project scope, and has demonstrated to have the technical ability and expertise with similar projects their company has completed. Staff has determined the proposed cost for pavement evaluation services to be reasonable for meeting the City's requirements as listed in the Scope of Services.

ALTERNATIVES CONSIDERED:

The alternative to this Council action would be to not award a Pavement Management Program (PMP) contract for the outlined services and perform the engineering work with City staff. However, due to the current manpower capacity, level of effort, and lack of expertise in the use of the required pavement management software, a significant delay in implementing this project would be experienced, and having these professional services performed by a highly qualified outside consultant is recommended.

FISCAL REVIEW:

Measure "M2" Funds allocated in Fiscal Year 2013-2014 for the Citywide Street Improvement Program will cover the cost of the City's Pavement Management Program for the next six years.

LEGAL REVIEW:

The City Attorney has reviewed and approved the attached Professional Services Agreement (Attachment 1) as to content and form.

CONCLUSION:

In order to be eligible to receive Measure M2 Funds from OCTA, the City is required to evaluate the conditions of arterial streets every two years, residential streets every six years, as well as the submission of a biennial Pavement Management Program update.

Staff completed the evaluation of the RFP's submitted for updating the Pavement Management Program for the next six years. It is recommended that the City Council award the contract to Bucknam Infrastructure Group, Inc, in an amount not to exceed \$88,475 and authorize the Mayor and the City Clerk to execute the Professional Services Agreement.

ERNESTO MUNOZ,
Public Services Director

FARIBA FAZELI
City Engineer

Attachment: 1- [Professional Services Agreement](#)

Distribution: Chief Executive Officer
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 City Attorney
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