



City of Norman, OK

Municipal Building Council
Chambers
201 West Gray Street
Norman, OK 73069

Text File

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Title

CONTRACT K-1213-185: A MAINTENANCE AGREEMENT BY AND BETWEEN THE CITY OF NORMAN, OKLAHOMA, AND THE OKLAHOMA DEPARTMENT OF TRANSPORTATION (ODOT) FOR FEDERAL-AID PROJECT STPG-214E(018)AG, STATE JOB NO. 29301(04) FOR THE TRAFFIC SIGNAL VIDEO DETECTION UPGRADE PROJECT AND ADOPTION OF RESOLUTION R-1213-121.

Body

BACKGROUND: The 2012 - Moving Ahead for Progress in the 21st Century (MAP-21) federal transportation funding bill allocates approximately \$21 Million in federal funds per year for the implementation of eligible transportation improvements in the Oklahoma City metropolitan area. Ten percent of this appropriation is used to fund safety projects at 100% of their construction cost. Installation of traffic signal video imaging vehicle detection systems is eligible for this level of funding.

Video imaging vehicle detection systems are becoming an increasingly common means of detecting traffic at intersections and interchanges in Oklahoma. This interest stems from the recognition that video detection is cheaper to install and maintain than inductive loop detectors at multi-lane intersections. It is also recognized that video detection provides better and more reliable bicycle and motorcycle detection and is more readily adaptable to changing conditions at the intersection (e.g., lane reassignment, temporary lane closure for work zone activities). The operation of the video camera component of the system is limited to detection of vehicles only and is not designed to allow red light running enforcement, which is not permitted under state law.

The benefits of video detection have become more substantial as the technology matures, its initial cost drops, and experience with it grows. The City of Norman installed its first traffic signal with video detection at the intersections of Lindsey Street with the I-35 northbound and southbound ramps in June of 2001. The excellent performance and overall positive experience with the technology prompted the Public Works Department to adopt video detection as the standard method of detection for all new traffic signal projects. Since introduction in 2001, the City now has video detection systems at 51 of its 136 signalized intersections.

The City's ultimate goal is to have every one of its traffic signals equipped with video detection systems. One of the means available to fund the upgrades, which cost approximately \$25,000 per intersection, is through a series of federally funded projects that address a group of intersections at one time.

On November 22, 2011, City Council approved Resolution R-1112-74 which was forwarded to both the Association of Central Oklahoma Governments (ACOG) and the Oklahoma Department of Transportation (ODOT) requesting federal funds to pay for 100% of the construction cost of such a project. In the resolution the City agrees to the terms and conditions of a federally funded project by stating its willingness to assume the responsibility for the preparation of engineering plans, the purchase of any additional right-of-way, the relocation of public utilities and funding of the local share of the construction cost, which normally is 20% but for this safety project will be 0%. The project was submitted for consideration and is currently included in the Association of Central Oklahoma Governments' (ACOG) 2013 Regional Transportation Improvement Plan (TIP).

Final plans, which were prepared by Traffic Control Division engineering staff, have been completed and were submitted to ODOT with a request to include the project in their May 16, 2013 bid opening. Construction is anticipated to begin in the summer of 2013 and will include the following intersections:

1. Robinson Street and 36th Avenue NW
2. Robinson Street and Crossroads Boulevard / Rambling Oaks Drive
3. Robinson Street and North Interstate Drive
4. Robinson Street and Porter Avenue
5. Tecumseh Road and Flood Avenue
6. 24th Avenue SW and Boyd Street
7. 24th Avenue SE and Brooks Street
8. Lindsey Street and Elm Avenue
9. Main Street and Flood Avenue
10. Gray Street and Flood Avenue
11. Gray Street and Porter Avenue
12. Boyd Street and Jenkins Avenue
13. 12th Avenue East and Alameda Street
14. 12th Avenue SE and Boyd Street
15. 12th Avenue SE and Lindsey Street
16. 12th Avenue SE and Classen Boulevard
17. Classen Boulevard and Constitution Street
18. Classen Boulevard and State Highway 9 (Westbound Ramp)
19. Classen Boulevard and State Highway 9 (Eastbound Ramp)

All work is anticipated to be completed before the beginning of the 2013-2014 school year.

The estimated construction cost of \$518,000 will be funded with 100% federal funds as a safety improvement project.

DESCRIPTION: The Oklahoma Department of Transportation requires the City to execute a project agreement and to adopt it by resolution before letting the project to contract. The agreement addresses the responsibilities of the City and the Department during and after the construction of the project. The execution of three original documents is required. Both the resolution and agreement have been reviewed by staff and approved by the City Attorney.

RECOMMENDATION: Staff recommends approval of Contract K-1213-185 and Resolution R-1213-121 with ODOT for the Traffic Signal Video Detection Upgrade project.