CITY OF PEORIA, ARIZONA
COUNCIL COMMUNICATIONS

CC: 4C
Amend No. _____

Date prepared: April 6, 2009 **Council Meeting Date: May 19, 2009**

TO: Carl Swenson, City Manager

THROUGH: Susan J. Daluddung, Deputy City Manager

FROM: Andrew Granger, P. E., Engineering Director

THROUGH: Dan Nissen, P. E., Assistant City Engineer

PREPARED BY: Geoffrey Zinnecker, P. E., Civil Engineer

SUBJECT: Contract Amendment No. 1 to ITS Engineers and Constructors of Utah, Inc. for the construction of the High-Intensity Activated Walk (HAWK) pedestrian beacon installation at 91st Avenue and Tumblewood Drive. (Engineering Project No. TS-0902, P08-117B

RECOMMENDATION:

Discussion and possible action to approve Contract Amendment No. 1 in the amount of $250,817 to ITS Engineers and Constructors of Utah, Inc. for the construction of the HAWK beacon at 91st Avenue and Tumblewood Drive.

SUMMARY:

Two of the proposed projects to be included in the FY09 Traffic Signal Program (TSP) have been determined; participation with ADOT for the construction of the traffic signal at Lake Pleasant Parkway and State Route 74 and constructing a High Intensity Activated Crosswalk (HAWK) signal at the intersection of 91st Avenue and Tumblewood Drive. Other projects included in the FY09 TSP will be recommended at a later date.

The intersection at 91st Avenue and Tumblewood Drive serves a large number of students and family members associated with the Desert Harbor Elementary school located on the south east corner. Even with the existing 15 mile per hour School Crossing control measures that have been installed, there are still concerns that some drivers are speeding, passing in the "no passing" zone, and failing to yield when children are in the crosswalk. To increase safety for the pedestrians at that location, staff has recommended that a new traffic control device be installed.

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. #**_____
A/CON# [illegible] **LIC. #**_____
Action Date:

REV. 08/08

The Engineering Department, Traffic Division, has studied the intersection and recommends a HAWK beacon be constructed at this location. Although this will be the first HAWK beacon in the City of Peoria, they have been used successfully in other cities, such as Tucson and Scottsdale.

The HAWK beacon (see attached photo) consists of a pair of signal poles with mast arms extending over a crosswalk. Signal heads are mounted on the masts which only operate when the pedestrian buttons are pushed. When not actuated, the beacon heads are dark, but when activated, the beacons illuminate a solid yellow to warn approaching motorists to prepare to stop, and then illuminate a solid double red to stop traffic. The pedestrians then get a walk signal to let them know that beacon is in the proper phase to allow them to cross. After the initial walk time has elapsed, the beacon then begins alternate flashing of the two red balls. While the double reds are flashing, the drivers are allowed to proceed after they stop, but only if no pedestrians remain in the crosswalk. After the flashing phase has expired the beacon goes dark and waits for the next pedestrian to push the button.

In addition to the HAWK beacon there are two solar powered signs that will be installed north and south of the intersection on 91st Avenue. These new signs will warn motorists of the reduced 25 mph speed limit in effect during school hours. The signs also electronically monitor the traffic and will display the motorists' actual speed. If the driver is speeding, the sign will then flash the message SLOW DOWN.

Although there will be some minor work required to line up crosswalk ramps, there will be no pavement changes.

ITS Engineers and Constructors of Utah, Inc. is currently designing the beacon and is nearing completion. They have been involved in designing a number of HAWK beacons in the Tucson area and have a high degree of expertise in this new form of traffic control. The engineering staff has reviewed their qualifications and the cost proposal and has verified that it is a best value to the City.

The schedule for the completion of the beacon is:

Award Construction Contract:	May 19, 2009
Construction:	June 2009 to August 2009

The estimated total cost for design and construction services is summarized below:

• Individual Job Order Contract (Design)	$ 11,779
• Contract Amendment No. 1 (Construction)	$250,817
	$262,596

FISCAL NOTE:

Payment for the Engineering elements of the job will be from the Transportation Sales Tax Fund Street System Account 7010-7075-543001-CIPST-EN00170CO in the amount of $250,817.

ATTACHMENT:

1. HAWK Beacon Photo
2. Location Map

ORIGINAL

CONTRACT AMENDMENT
Change Order

Solicitation No.: P08-0117BP1 Page 1 of 2

Amendment No.: One (1) Date: May 7, 2009

Materials Management
Procurement
8314 W. Cinnabar Ave.
Peoria, AZ 85345
Telephone: (623) 773-7115
Fax: (623) 773-7118
Buyer: Christine Finney

Project No.: TS-0902 Agreement Date: 3/27/2009

Project Description: Pedestrian Signal (HAWK) at 91st Ave & Tumblewood Completion Date: 8/31/ 2009

Change Order Type: ☐ Owner Initiated ☐ Errors & Omissions ☐ Unknown Conditions ☒ Phased Award

***The changes as shown on the attached sheet are hereby made to the contract.**

Contract Price Change:

Original Contract Price:	$11,779.00
Total of previous change orders:	$0.00
Original contract price plus previous change order(s):	$11,779.00
The contract price due to this change order will be increased/decreased by:	$250,817.00
The new contract price including this change order will be:	$262,596.00

Contract Time Change:

The contract time will be increased by ninety (90) calendar days

The new date for completion of all work will be August 31, 2009

Contractor hereby acknowledges receipt and agreement. A signed copy shall be filed with the City of Peoria, Materials Management Division.

Signature	Date	Typed Name and Title	Company Name
[redacted]	12. MAY. 09	Randall Pearson Vice President	ITS Engineers & Constructors of Utah

Address	City	State	Zip Code
22505 N. 19TH Avenue	Phoenix	AZ	85027

Attested By:

Mary Jo Kief, *City Clerk*

9C 5/19/09
CC Number

ACON68808P1A
Contract Number

Dan Nissen, P.E., Assistant City Engineer

Christine Finney

Christine Finney, Buyer

Approved as to Form: Stephen M. Kemp, City Attorney

The above referenced Contract Amendment is hereby Executed

_____, _____, at Peoria, Arizona

Carl Swenson, City Manager

City Seal Official File

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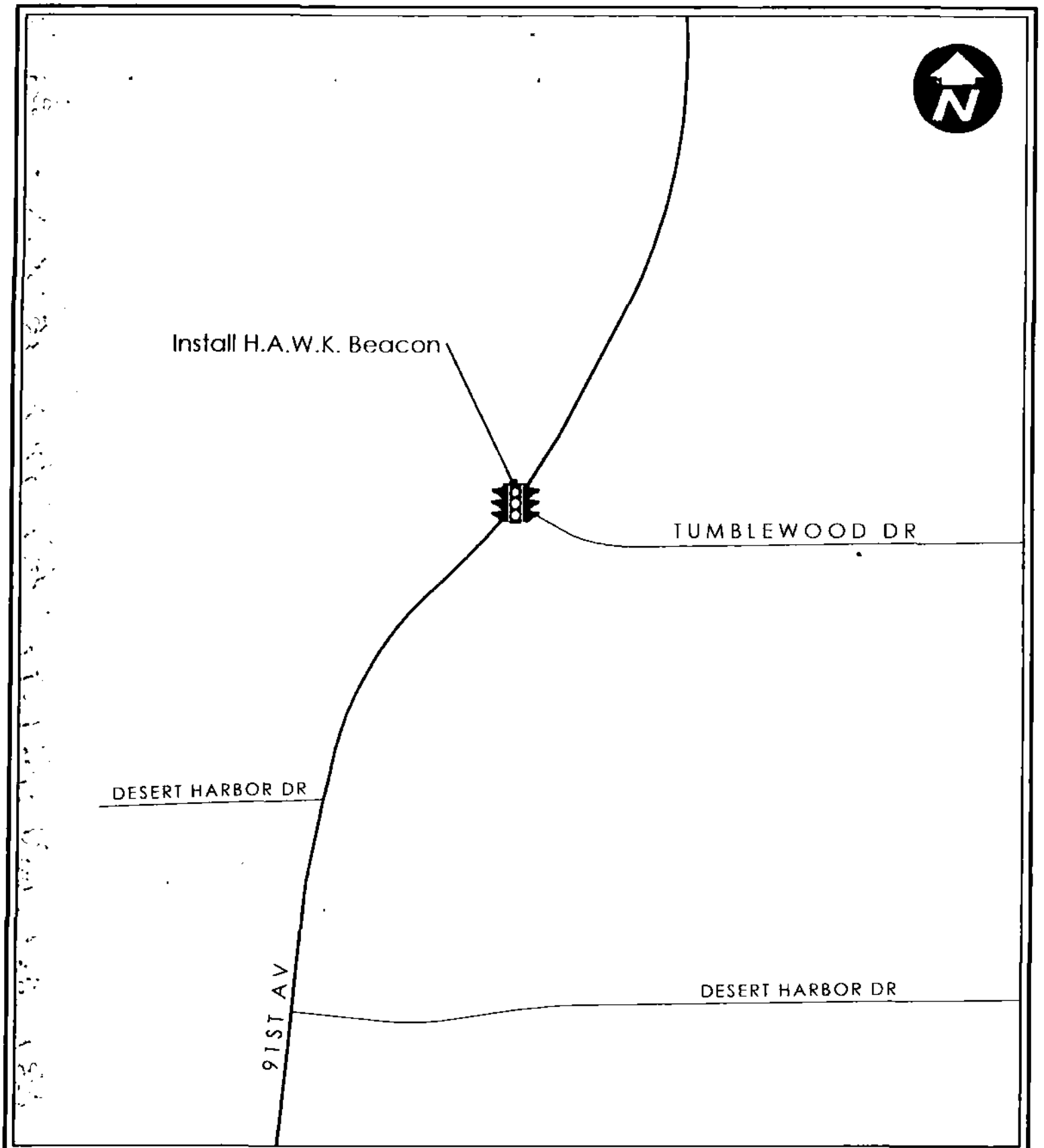
The HAWK beacon consists of two opposing poles with masts that extend out over the approach lanes in each direction.

The Peoria beacon will not have the dangling "pedestrian crossing" sign, but will have an illuminated street name sign and an overhead luminare on each of the two poles to light the crosswalk at night.



City of Peoria

91st Avenue and Tumblewood Drive

H.A.W.K. Beacon Installation