



DATE: October 12, 2011

TO: Honorable Mayor and City Councilmembers

FROM: Development Services Department

SUBJECT: **CHANGE ORDER FOR IMPROVEMENTS TO THE CITY'S TRAFFIC SIGNAL COMMUNICATION SYSTEM**

**SYNOPSIS**

Staff recommends that the City Council approve Change Order 3 in the amount of \$320,000 to Select Electric Inc., of Spring Valley for improvements to the City's Traffic Communication System, for additional work requested by the City, and authorize the City Engineer to execute the change order.

**BACKGROUND**

On December 8, 2010, the City Council approved the plans and specifications and authorized a call for bids. Notices inviting sealed bids were sent to qualified area contractors and were also advertised in local newspapers and trade journals, and web sites in accordance with the City's standard bidding procedures.

On February 23, 2011, the City Council awarded a contract in the amount of \$927,000 to Select Electric, Inc., of Spring Valley for improvements to the City's Traffic Signal Communications System.

Select Electric, Inc., has begun construction of the improvements to the City's Traffic Signal Communication System and staff proposes a change order in the amount of \$320,000 to install additional fiber optic cable, CCTV cameras and radio communications.

The Traffic Management Center (TMC) provides an area in City Hall for City staff to monitor and regulate traffic conditions throughout the City. Other cities throughout the region are installing or upgrading existing TMCs to provide real-time information to manage everyday traffic conditions on main arterials.



The City's existing computerized signal system was installed in 1998 and is currently monitoring and controlling approximately 142 of 150 City-operated signals. The proposed improvements to the communication system will upgrade the existing traffic signal communication infrastructure, install fiber-optic cable, install closed-circuit television cameras (CCTV) at major intersections in the City, and bring the information into the TMC.

The traffic signal communication system will also enhance the City's network for communications and provide greater performance for public safety and other critical multi-facility applications and systems.

## **ANALYSIS**

The existing project will install approximately 10 miles of fiber-optic cable and the proposed change order will add an additional 13 miles of fiber-optic cable to the scope of work. This will upgrade the existing traffic signal copper-cable network and expand the City's communications network to connect with other City facilities (fire stations, community centers, etc.). With the interconnecting of facilities, the City will be able to scale back its dependence on leased lines which provides a significant savings (after the first year the savings could be upwards of \$50,000 annually).

The existing project will also install 33 CCTV cameras at key signalized locations and the proposed change order will add 7 CCTV cameras at other key signalized locations to allow traffic staff to monitor traffic and make signal-timing changes as needed to improve traffic flow.

The radio communications will replace existing telephone lease lines used for traffic signal communications and reduce lease-line cost.

Change Orders 1 and 2 in the amounts of (\$24,502) and \$3,169.53 respectively, were approved administratively and included both increases and decreases to the contract but did not exceed the original contract amount. Those change orders included additional CCTV camera locations and deleted the changeable message signs.

The Fire Department is also involved in the functions of the TMC as it will serve as the future primary location for the Emergency Operation Center.

## **FISCAL IMPACT**

The Adaptive Signals/TMC (902111200212) is funded with Transnet funds. As noted above, a \$927,000 contract was awarded to Select Electric with funding from various capital accounts, including \$300,000 from the Energy Efficiency and Conservation Block Grant (EECBG). Due to some delays in the project and the need to draw on the EECBG grant, there was \$419,940 remaining in this project at FY10-11, which has been requested to be reallocated into FY11-12. This continuing appropriation is required for the City to meet its obligations under the initial contract.

The FY 2011-12 CIP budget for the Adaptive Signals/TMC (902111200212), was approved for \$400,000, and these new funds were budgeted for additions to the existing contract, and will be sufficient to support the change order of \$320,000. The chart below shows the changes in the project budget. With the funds - continued from FY10-11, there will be sufficient funds to pay the existing obligations and provide adequate funding for the change order.

<b>Project</b>	<b>Amounts</b>	<b>Business Unit/Object Code</b>
<b>Current Budget</b>		
Adaptive Signals/TMC - Transnet		
Infrastructure	\$400,000	902111200212.5703.10600
<b>Total Now</b>	<b>\$400,000</b>	
<b>After Continuing Appropriation</b>		
Infrastructure	\$819,940	902111200212.5703.10600
<b>New Totals</b>	<b>\$819,940</b>	

Since the project is still under construction, a change order will allow the additional work to be completed in a timely manner. Select Electric, Inc., bid prices were excellent for the additional items in the proposed change order and staff recommends the change order for the additional work be approved for Select Electric, Inc. The change order is in compliance with the City's procurement policy.

### **INSURANCE REQUIREMENTS**

The City's standard insurance requirements will be met.

### **COMMISSION OR COMMITTEE REPORT**

Staff updated the Transportation Commission on the status of the TMC proposal at their June 16, 2009, meeting and no action was required.

### **CITY ATTORNEY'S ANALYSIS**

The referenced documents have been reviewed by the City Attorney and approved as to form.

**RECOMMENDATION**

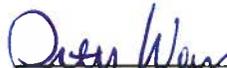
Staff recommends that the City Council approve Change Order 3 in the amount of \$320,000 to Select Electric Inc., of Spring Valley for improvements to the City's Traffic Communication System, for additional work requested by the City, and authorize the City Engineer to execute the change order.

PREPARED BY:



David DiPiero  
City Traffic Engineer

SUBMITTED BY:



Peter A. Weiss  
City Manager

REVIEWED BY:

Michelle Skaggs Lawrence, Deputy City Manager



George Buell, Development Services Director



Scott O. Smith, City Engineer



Teri Ferro, Financial Services Director



Attachments:      Change Order 1-3





CITY OF OCEANSIDE  
CONTRACT CHANGE ORDER

DATE August 25, 2011  
PROJECT # 903521800508

PROJECT TITLE: **Traffic Signal Communication System for a Transportation Management Center**

CHANGE ORDER # 3

**PURCHASE ORDER #**

This change order provides for:

1. Additional work for the installation of 69,000 lf of 72 SMFOC fiber optic cable per contract bid items.
2. Additional work for the installation of 7 new camera locations per contract bid item prices and negotiated price for additional work.
3. Additional work will be paid per unit prices for actual quantities used.
4. Increase of 60 working days.

Contract Increase: **\$320,000**

All equipment, materials, labor and other incidentals shall be included in this lump sum price for this Change Order No. 3. This Change Order shall include all general contractor's and subcontractors overhead, profit and incidentals, and contractor shall not be entitled to any additional payment regarding this change order. Prices are for work complete and in place.

Estimated Cost: Increase \$320,000 Decrease \_\_\_\_\_ No Change -

Recommended by: Paul J. Pace <sup>DRD</sup>  
Paul J. Pace, Project Manager

**Contract Summary:**

Initial Contract Amount: \$ 927,000.00

Previous Change Orders: (-21,332.71)

This Change Order: \$320,000

Total to Date: 298,667.29

Additional Appropriation Required: X  
Yes No

Approved: CITY OF OCEANSIDE

By: \_\_\_\_\_  
Scott O. Smith, City Engineer

Approved: Select Electric, Inc.

By: Amy J. Elmer <sup>P.M.</sup>  
Contractor 8/31/11

Original to: City Clerk  
Copies to: Accounts Payable

Contractor

Inspector

File