



Meeting Date: 01/11/11

ACTION	TYPE OF ITEM
<input type="checkbox"/> Approved Recommendation	<input type="checkbox"/> Info/Consent
<input type="checkbox"/> Ord. No(s). _____	<input type="checkbox"/> Report
<input type="checkbox"/> Res. No(s). _____	<input type="checkbox"/> Public Hearing (Info/consent)
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____

Prepared By: Lou Balderrama, City Engineer *LB* Agenda Item No. I-12
 Reviewed By: City Manager *[Signature]* City Attorney *[Signature]* Finance *[Signature]* Public Works

DATE: December 30, 2010

TO: City Council

FROM: *AR*
Rob Roshanian, Interim Public Works Director
Public Works Department

SUBJECT: Change Order No. 14 to Agreement No. A-7259 with McCarthy Building Companies, Inc. for the Advanced Water Purification Facility

RECOMMENDATION

That City Council approve and authorize the Mayor to execute Change Order No. 14 to Agreement No. A-7259 with McCarthy Building Companies, Inc. in the amount of \$126,087.00 for construction costs associated with unforeseen utilities, soil conditions, and asphalt conditions encountered during the installation of the 20-inch Reverse Osmosis Concentrate line, and the extension of the 36-inch Microfiltration Facility line.

DISCUSSION

The Advanced Water Purification Facility (AWFP) includes the installation of a 20-inch Reverse Osmosis Concentrate (ROC) pipeline in Perkins Road. This pipeline connects the AWPF to the Wastewater Treatment Plant outfall pipeline. During the installation of the 20-inch ROC pipeline in Perkins Road, McCarthy Building Companies, Inc. (McCarthy) encountered unforeseen utilities, soil conditions and asphalt conditions. Based on work directives issued by the City, McCarthy resolved the issues and proceeded with work contained in the original contract documents. The following unforeseen conditions were encountered and resolved on Perkins Road:

- An unknown 4-inch electrical conduit was encountered and damaged during excavation. The conduit was not indicated on original contract drawings, nor was it marked by others when McCarthy called for an Underground Service Alert (USA). The additional costs are for the repair of the conduit.
- During excavation around an existing 8-inch fire line, McCarthy discovered that it was leaking due to corrosion. The condition of the pipe was unknown prior to excavation. The leak needed to be repaired before McCarthy could safely proceed with excavation. The additional costs are for the repair of the fire line.

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- A 12-inch sewer line in a different location than expected and an unknown 6-inch sewer line were encountered during excavation for the 20-inch ROC pipeline. Due to conflict with the ROC pipeline, the 12-inch line needed to be rerouted and a manhole installed, and the 6-inch line needed repair. This work was not included in original contract documents. The additional costs are for rerouting of the 12-inch line, installation of the manhole and repairing of the 6-inch line.
- An unknown section of concrete soil stabilization material was encountered during the excavation of the 20-inch ROC line. Before installing the new ROC line, the concrete soil stabilization material needed to be removed. This work was not included in the original contract documents. The additional costs are for removal and disposal of the material, and replacement with suitable material.
- An unknown 12- to 18-inch thick section of roadway pavement was encountered during excavation for the 20-inch ROC line. The thick pavement materials needed to be removed and replaced with suitable roadbed materials. This work was not included in the original contract documents. The additional cost covers the removal and disposal of the pavement materials and replacement with suitable roadbed materials.

The AWPf design includes provisions for future expansion of the Micro Filtration (MF) facilities. The current AWPf project includes installing a 36-inch MF pipeline Tee to facilitate the future expansion. The designed Tee location is too close to the final location chosen by Southern California Edison for its transformers. If the Tee is located where planned, the future expansion project would require extensive shoring and a full electrical shutdown and AWPf shutdown, in order to connect to the Tee. It is prudent to extend the future expansion connection point beyond the final location of the electrical transformers. This work was not included in the original contract documents. The additional cost covers the extension of the 36-inch MF pipeline Tee.

The cost of all labor and materials associated with resolving the previously unknown issues associated with the 20-inch ROC line is \$69,493. The cost of all labor and materials associated with extension of the MFF line is \$56,594. The total cost of Change Order No. 14 is \$126,087, increasing the construction cost of the AWPf Project from \$53,782,566 to \$53,908,653.

FINANCIAL IMPACT

The cost of Change Order No. 14 is \$126,087, and is funded by the AWPf Project No. 066010, including \$94,565.25 from Account Number 609-6553-821-8604 and \$31,521.75 from Account Number 276-6553-821-8604.

Attachment #1 - Change Order No. 14 to Agreement No. A-7259

Note: Attachment No. 1 has been provided to the City Council. Copies are available for review at the Help Desk (second floor) in the Main Library after 6:00 p.m. on the Thursday prior to the Council meeting, and at the City Clerk's Office after 8:00 a.m. on Monday.