



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: APRIL 9, 2018

ITEM NO: 7

SUBJECT: SECOND AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT WITH GEOTEK, INC. FOR GEOTECHNICAL INSPECTION SERVICES FOR THE CONSTRUCTION OF THE JACKSON STREET RECYCLED WATER PIPELINE PROJECT (PHASE I) – APPROVE THE INCREASED EXPENDITURE OF \$34,586 FOR A REVISED TOTAL OF \$79,935.42

ISSUE:

Approve the Second Amendment to the Professional Services Agreement with Geotek, Inc. for Geotechnical Inspection Services for the construction of the Jackson Street Recycled Water Pipeline Project (Phase I) – increasing the Agreement amount by \$34,586 for a revised total of \$79,935.42 to provide geotechnical services (soils testing and inspection, subgrade compaction testing, asphalt tests, and asphalt placement inspection) during construction of the remaining portions of the Jackson Street Recycled Water Pipeline Project (Phase I).

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Approve the Second Amendment to the Professional Services Agreement with Geotek, Inc. for Geotechnical Inspection Services for the construction of the Jackson Street Recycled Water Pipeline Project (Phase I) – increasing the Agreement amount by \$34,586 for a revised total of \$79,935.42 to provide geotechnical services; and
2. Authorize the City Manager, or his designee, to execute the Second Amendment with Geotek, Inc.

BACKGROUND:

On June 12, 2017, the Board of Public Utilities (Board) awarded a contract for the construction of the Jackson Street Recycled Water Pipeline Project (Phase I). The project will extend the existing 24-inch recycled water pipeline that currently terminates at the intersection of Van Buren Boulevard and Jackson Street to the intersection of Jackson Street and Cleveland Avenue. The work involves the construction of 15,600 linear feet of 24-inch recycled water pipeline along Jackson Street, Magnolia Avenue, and Monroe Street and 3,100 linear feet of 8-inch recycled water pipeline along Central Avenue.

This new pipeline will expand Riverside Public Utilities' (RPU) recycled water system by providing recycled water service to customers along its proposed alignment, and it will serve as a backbone for potential expansion of RPU's recycled water system in the future.

DISCUSSION:

Construction of the pipeline began in July 2017, and has progressed to roughly fifty percent complete. During construction of the pipeline, the contractor encountered various unknown utilities, underground structures, and changing conditions that required various modifications in constructing the pipe along Central Avenue, Monroe Street, and Jackson Street.

The original Agreement with Geotek, Inc. in the amount of \$22,784 was later increased to \$45,349.42. Due to the various changes during construction, the geotechnical inspection cost needs to be increased again to a new revised total of \$79,935.42. The cost is now greater than \$50,000, the additional expenditure is required to be approved by the Board.

The following provides a summary of the items that have or are projected to contribute to additional inspection:

1. Conflicting utilities have been encountered during excavation, which required additional hours of inspection from the geotechnical firm to ensure proper backfill around the new pipe as well as proper compaction of any areas around existing utilities that were disturbed;
2. Due to the complexity of the project and associated phasing, additional geotechnical inspection has been necessary to support crucial operations such as road closures, increasing the inspection hours;
3. The original estimate for geotechnical services was based on a sequential linear construction; the contractor has utilized multiple crews concurrently in several areas, which required additional geotechnical hours to monitor and test multiple work locations;
4. Eight additional services were added to the scope of work for the project; this resulted in additional geotechnical inspection of backfill and paving for these areas; and
5. While excavating along Jackson Street, the contractor encountered changing soil conditions, requiring additional laboratory testing and additional field inspection hours from the geotechnical consultant to evaluate the native soil and assist in providing a solution, as well as performing the needed inspection involved with implementing the fix.

There is no overall fiscal impact to the work order. The funding for the added geotechnical inspection will be covered under the “Inspection and Geotechnical Testing” item listed in the cost allocation summary table below, as approved by this Board on November 27, 2017. This item has been allocated \$350,000 and approximately \$140,000 has been spent to date.

Description	Cost	Percent of Total
Construction (Trautwein Construction, Inc.)	\$7,162,460	79.2%
Construction Contingencies	\$601,625	6.7%
City Forces Construction Support	\$200,000	2.2%
Construction Management & Engineering Support	\$224,915	2.5%
Inspection and Geotechnical Testing	\$350,000	3.9%
Work Order Subtotal	\$8,539,000	
Original Work Order amount for upfront Design and Utility Potholing authorized January 22, 2016	\$500,000	5.5%
Work Order Total	\$9,039,000	100.0%

FISCAL IMPACT:

There is no fiscal impact with this action; sufficient funds are available in the Public Utilities' Recycled Water Facilities Account No. 6230000-470811.

Prepared by: Michael L. Plinski, Interim Utilities Assistant General Manager/Water
Approved by: Todd L. Jorgenson, Interim Utilities General Manager
Approved by: John A. Russo, City Manager
Approved as to form: Gary G. Geuss, City Attorney
Certifies availability
of funds: Laura M. Nomura, Utilities Assistant General Manager/Finance & Administration

Attachments:

1. Agreement
2. Presentation

