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Public Works

City Transit
263-8152

MEMORANDUM

Equipment Maintenance
Roadway Maintenance
Collection & Drainage
Building & Grounds
Engineering

To: Randy Hill, Public Works Administrator
CC: Fran Donelson, City Administrator Secretary
FROM: Jon Lutz, City Engineer
DATE: June 5th, 2012
RE: West Hill Area Sanitary & Storm Sewer Separation Project – Phase 1

INTRODUCTION:

The City of Muscatine contracted with Langman Construction Company for construction of the West Hill Area Sanitary and Storm Sewer Separation Project. Construction survey and field engineering is necessary and is not included in the contract with Langman.

BACKGROUND:

During plan development, city staff and Stanley Consultants discussed the need for quality as-built documents showing locations of all underground utilities and sewer connections for this project. As-built drawings provide information for future design, troubleshooting and construction. Plumbing contractors and other utilities will use this information to minimize future street disturbance thus decreasing cost. Final pay quantities will also be computed from the as-built drawings.

It has been our experience on previous sewer projects that when the responsibility of producing as-built drawings are assigned to the contractor, poor and inadequate results are obtained. Daily trips to the site are necessary to measure and document locations of existing and new underground utilities. This work should be combined with construction staking operation due to logistics and the fact that the staking company will have already set up the planned locations of the improvements. Review of planned versus as-built improvements will be performed during construction instead of after all the work has been completed.

Martin & Whitacre performed the topographic survey on this project for Stanley Consultants and is familiar with the site and infrastructure.

The Public Works Collection and Drainage Department maintains a complete GIS representation of the City's sewer system. Previously, MAGIC and City staff surveyed the sewer after similar work had already been performed by the contractor's staking company. This new approach eliminates the field work previously performed by city Staff.

This project involves slightly less layout work than the recent Hershey Sewer Separation Contract 2 project where the average field engineering and record drawing bid amounts were \$80,881.87. Therefore, the engineer's estimate is \$70,000.00.

RECOMMENDATION/RATIONALE:

The City Engineer recommends approving a purchase order not to exceed \$65,000 to Martin & Whitacre Surveyors & Engineers, Inc for construction survey and field engineering on Phase 1 of the West Hill Area Sanitary and Storm Sewer Separation Project.



**Martin & Whitacre
Surveyors & Engineers, Inc.**

Gary Whitacre, President
Matt Krause, Sec/Treas

May 2, 2012

Jon Lutz
City of Muscatine Public Works
1459 Washington Street
Muscatine, IA 52761

Re: West Hill Sewer Phase I
Base Bid 2012

Jon:

Thank you for the opportunity to provide surveying services to the City of Muscatine on the West Hill Sewer Separation Project.

We propose to provide all labor, equipment and materials for Section 01 30 00, 1.04 - Field Engineering and Section 01 70 00, 1.04 F, G, and H - Project Record Documents.

Work to be performed at our standard hourly rates 2012 as attached.

Estimated cost = \$64,486.00

Respectfully submitted,

MARTIN & WHITACRE SURVEYORS & ENGINEERS, INC.

Gary W. Whitacre

GW/rih

Encl. - Standard Hourly Rates

#7521Proposal