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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 Director

FROM: Jon Lutz, City Engineer

DATE: August 13, 2014

RE: Change Order #1 – Air Release Valve Replacement Phase 2 Project

INTRODUCTION:

This project is phase 2 of 3 which includes removal and replacement of deteriorated manhole structures and air release valve components on the south end sanitary sewer force mains. Phase 1 was completed in the fall of 2013 focusing on the 16" force main from Stewart Road to the treatment plant. Phase 2 under contract with Hagerty Earthworks, LLC replaces equipment on the 24" force main from Dick Drake Way to the treatment plant.

Several items encountered during the project required extra work. There are no appropriate current contract items to cover this work. Therefore, a change order is necessary.

BACKGROUND:

Extra work items are as follows:

Work at manhole #20 included replacing the manhole and valves on the 24" sewer force main. A 4" sewer force main with valves is also inside the manhole. The contractor was directed to remove the corroded isolation valve and air release valve on the 4" line and install a stainless steel isolation valve in its place. If necessary, the Collection and Drainage Department can order and install an air release valve at a later time.

Labor and materials = \$1,178.03

Materials called out on the construction plans for connection to the 24" force main were believed to be the same configuration as was encountered on the 16" main in Phase 1. After materials were ordered for the 6 manholes, and the piping was exposed, additional stainless steel hardware was required for each location.

Additional material cost total = \$2,609.01

Manhole #9 was installed with a top elevation as shown on the construction plans. The upcoming Musser Park to Wiggens Trail will pass directly over adjacent manholes 9 and 10 requiring them to be the same elevation. The trail will provide access to the air release valve infrastructure for maintenance. The trail alignment cannot be relocated without negotiating additional easements. The contractor was directed to excavate and raise the manhole #9 barrel section and flat top to match manhole #10.
Equipment and labor = \$950.00.

Therefore, the net increase due to the above change is: **\$4,737.04**

Original Contract amount:	\$83,900.00
Change order #1 total:	\$ 4,737.04
Total new contract amount:	\$88,637.04

RECOMMENDATION/RATIONALE:

It is the City Engineer’s recommendation to approve this Change Order 1 in the amount of \$4,737.04

BACKUP INFORMATION:

1. Change order #1

HAGERTY EARTHWORKS, LLC

John Hagerty

City of Muscatine
Jon Lutz

Air Release Valve Replacement Phase 2

Additional costs:

Extra work at Lamplight location

Materials $\$475.48 \times 110\% = \523.03

Travel to get parts in Cedar Rapids 3 hours $\times \$65.00 = \195.00

Excavator and operator 2 hours $\times \$120.00 = \240.00

Laborers 4 hours $\times \$55.00 = \220.00

Total: $\$1,178.03$

Extra materials not on plans that were required to do the job:

Materials $\$2,371.83 \times 110\% = \$2,609.01$

Raise manhole at location #9

Lump sum : $\$950.00$

Total for all three: $\$4,737.04$

Hagerty Earthworks LLC – 300 E 2nd St – Suite 304 – Muscatine Iowa 52761
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