



**Item:** Change Order Number 1: Lower Southside Water Main Replacement – Phase II, O. F. 1465.1

**From:** Engineering Division

**Initiated By:** Public Works Department

**Presented By:** Jim Rearden, Public Works Director

**Action Requested:** Consider and Approve Change Order Number 1

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**Suggested Motion:**

1. Commissioner moves:

"I move the City Commission (approve/not approve) Change Order Number 1 in the amount of \$150,000.00 to Phillips Construction, LLC for the Lower Southside Water Main Replacement - Phase II, O. F. 1465.1, and authorize the City Manager to execute Change Order Number 1."

2. Mayor requests a second to the motion, Commission discussion, public comment, and calls for the vote.

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**Staff Recommendation:** Approve change order number one.

**Summary:** Public Works Department would like to add additional water main replacement work to Phillips Construction's contract in order to replace water main located in Smelter Avenue and 8<sup>th</sup> Street Northeast.

**Background:**

Significant Impacts

This project will replace 400 lineal feet of water main located in Smelter Avenue and approximately 100 lineal feet in 8<sup>th</sup> Street Northeast.

Citizen Participation

This project is being completed in cooperation with the Montana Department of Environmental Quality (DEQ) and Montana Department of Transportation.

Workload Impacts

City engineering staff designed the project and will perform construction inspection and contract administration duties.

### Purpose

This is an emergency water main replacement due to the following:

- This section of water main has broken six times within the last year, including three times during the winter months, causing major traffic problems due to being a four lane state highway and major access to Walmart.
- Montana Department of Transportation (MDT) has an overlay/chip seal project scheduled for later this summer and we would like to avoid future excavations in this area once their project has been completed.
- The traffic issue is only going to get worse in the coming summer months with school getting out and the start of tourist season.

The water main breaks are primarily due to corrosive soils and type of pipe material used.

### Project Work Scope

We will be replacing approximately 500 lineal feet of 12-inch cast iron and possibly a small amount of cement asbestos pipe with 12-inch ductile iron and PVC pipe, remove and replace one fire hydrant and install three 12-inch gate valves. The ductile iron pipe is double wrapped with plastic. The inner layer is V-Bio Polyethylene and the outer layer is High Density Cross Laminated Polyethylene. This is necessary to provide protection against corrosive soils and ground water in the area.

The work is being completed within Montana Department of Transportation (MDT) right-of-way which has the additional requirements of flowfill, which is a low cement content concrete mix design, used for backfilling utility trenches; and a different pavement mix design than what the City of Great Falls uses. MDT requires flowfill to minimize the risk of settlements along the utility trench, and the asphalt mix MDT uses is needed for the heavier traffic loads.

### Evaluation and Selection Process

Phillips Construction was awarded a contract for the Lower Southside Water Main Replacement - Phase II project on October 6, 2015. Phillips Construction is just completing this project and is able to immediately mobilize to the Smelter Avenue location. The emergency main replacement and the original contract are similar. Both require ductile iron pipe and both have petroleum contaminated soils which need special handling. Phillips Construction has agreed to use the same contract prices to install the additional water main.

### Conclusion

City staff recommends approving Change Order Number 1 to Phillips Construction. Phillips Construction has executed all the necessary documents.

### **Fiscal Impact:**

The original contract amount was \$628,674.00 and 77 calendar days. Change Order Number 1 would add \$150,000.00 and 21 calendar days, bringing the total contract amount to \$778,674.00 and 98 calendar days.

This project is being funded through the Water Capital Improvement fund.

**Alternatives:**

The City Commission could vote to deny approval of Change Order Number 1 and re-negotiate with Phillips Construction.

**Concurrences:**

DEQ has reviewed and approved the plans and specifications for this project.

**Attachments/Exhibits:**

1. Change Order Number 1

# Change Order

No. ONE

Date of Issuance: June 8, 2016

Effective Date: June 21, 2016

Project: Lower Southside Water Main Replacement- Phase II	Owner: City of Great Falls	Owner's Contract No.: O. F. 1465.1
Contractor: Phillips Construction, Inc.		Date of Contract: October 6, 2015
Contractor: Phillips Construction		Engineer's Project No.: PW351601

**The Contract Documents are modified as follows upon execution of this Change Order:**

Description: Additional 500 LF of 12" water main replacement in Smelter Avenue and 8<sup>th</sup> Street Northeast, remove and replace one fire hydrant and install three 12-inch gate valves. Flowfill will be used for backfilling the utility trench, which is required by Montana Department of Transportation.

Attachments: (List documents supporting change):

**CHANGE IN CONTRACT PRICE:**  
**Original Contract Price:**

\$ 628,674.00

[Increase] [Decrease] from previously approved Change

Orders No. 0 to No. \_\_\_\_\_:

\$ \_\_\_\_\_

Contract Price prior to this Change Order:

\$ 628,674.00

[Increase] [Decrease] of this Change Order:

\$ +150,000.00

Contract Price incorporating this Change Order:

\$ 778,674.00

**CHANGE IN CONTRACT TIMES:**  
**Original Contract Times:**

☐ Working days ☒ Calendar days

Substantial completion (days or date): 21

Ready for final payment (days or date): \_\_\_\_\_

[Increase] [Decrease] from previously approved Change Orders

No. 0 to No. \_\_\_\_\_:

Substantial completion (days): \_\_\_\_\_

Ready for final payment (days): \_\_\_\_\_

Contract Times prior to this Change Order:

Substantial completion (days or date): 77

Ready for final payment (days or date): \_\_\_\_\_

[Increase] [Decrease] of this Change Order:

Substantial completion (days or date): 21

Ready for final payment (days or date): \_\_\_\_\_

Contract Times with all approved Change Orders:

Substantial completion (days or date): 98

Ready for final payment (days or date): \_\_\_\_\_

RECOMMENDED:

By: \_\_\_\_\_  
Engineer (Authorized Signature)

Date: \_\_\_\_\_

Approved by Funding Agency (if applicable): \_\_\_\_\_

ACCEPTED:

By: \_\_\_\_\_  
Owner (Authorized Signature)

Date: \_\_\_\_\_

ACCEPTED:

By: \_\_\_\_\_  
Contractor (Authorized Signature)

Date: \_\_\_\_\_

Date: \_\_\_\_\_

### **A. GENERAL INFORMATION**

This document was developed to provide a uniform format for handling contract changes that affect Contract Price or Contract Times. Changes that have been initiated by a Work Change Directives must be incorporated into a subsequent Change Order if they affect Price or Times.

Changes that affect Contract Price or Contract Times should be promptly covered by a Change Order. The practice of accumulating Change Orders to reduce the administrative burden may lead to unnecessary disputes.

If Milestones have been listed in the Agreement, any effect of a Change Order thereon should be addressed.

For supplemental instructions and minor changes not involving a change in the Contract Price or Contract Times, a Field Order should be used.

### **B. COMPLETING THE CHANGE ORDER FORM**

Engineer normally initiates the form, including a description of the changes involved and attachments based upon documents and proposals submitted by Contractor, or requests from Owner, or both.

Once Engineer has completed and signed the form, all copies should be sent to Owner or Contractor for approval, depending on whether the Change Order is a true order to the Contractor or the formalization of a negotiated agreement for a previously performed change. After approval by one contracting party, all copies should be sent to the other party for approval. Engineer should make distribution of executed copies after approval by both parties.

If a change only applies to price or to times, cross out the part of the tabulation that does not apply.