



## WEST DES MOINES WATER WORK BOARD OF TRUSTEES MEETING COMMUNICATION

### ITEM:

DATE: February 20, 2018

4. Consent Agenda
  - b. Motion – Concurring with Staff Approval of Change Order #1 for the Lime Slaker System Replacement Project

### FINANCIAL IMPACT:

Change Order #1 increases the project cost by \$3,045.00.

### SUMMARY:

During construction, it was discovered that the existing SCADA processors are not compatible with the new slakers (DH+ communications vs. ethernet communications). Automatic Systems determined the remedy is to upgrade the communication cable to a fiber optic cable. This work can utilize an existing conduit with excess capacity between the buildings.

The new cable will be sized to take the communications traffic as other older SCADA controllers reach the end of their useful life and require replacement.

This change order amount is less than the authorized approval limit of the General Manager and it was administratively approved to avoid project delay.

### BACKGROUND:

The Water Works currently has two lime slakers at the A.C. Ward Treatment Plant. The slakers are original equipment to the Chemical Feed Building and were installed in the late 1990s. The slakers have reached the end of their useful life and require replacement. Due to the critical nature of lime to our treatment process, the slakers have to be replaced individually during the off-peak season.

### RECOMMENDED ACTION BY THE BOARD OF TRUSTEES:

To Concur with Staff approval of Change Order #1 for the Lime Slaker System Replacement Project.

Prepared by:

A handwritten signature in cursive script, appearing to read 'William J. Wallace', written over a horizontal line.

Approved for Content by:

A handwritten signature in cursive script, appearing to read 'J. Wilson', written over a horizontal line.



# Change Order

## No. 1

Date of Issuance: January 25, 2018

Effective Date:

Upon Authorization

Project: <b>Lime Slaker Replacement</b>	Owner: <b>West Des Moines Water Works</b>	Owner's Contract No.: <b>00800-120-17008</b>
Contract: <b>WDMWW – Lime Slaker System Replacement</b>		Date of Contract: <b>August 2017</b>
Contractor: <b>CL Carroll</b>		Engineer's Project No.: <b>16518001</b>

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

Description:

Extension of Fiber optic line cable between Lime process PLC and Control Building PLC. Fiber cable extension provides Increased Ethernet communications not currently available in existing, thereby increasing operational performance

Attachments (list documents supporting change):

CL Carroll Cost Estimate

### CHANGE IN CONTRACT PRICE:

Original Contract Price:

\$546,172.00

Increase from previously approved Change Orders N. A.

\$0.00

Contract Price prior to this Change Order:

\$546,172.00

Increase of this Change Order:

\$3,045.00

Contract Price incorporating this Change Order:

\$549,217.00

### CHANGE IN CONTRACT TIMES:

Original Contract Times:

☐

Working days

☒

Calendar days

Substantial completion (date): February 15, 2018

Ready for final payment (date): March 15, 2018

[Increase] [from previously approved Change Orders

Substantial completion (days): 0

Ready for final payment (days): 0

Contract Times prior to this Change Order:

Substantial completion (date): February 15, 2018

Ready for final payment (date): March 15, 2018

Increase of this Change Order:

Substantial completion (days): 15

Ready for final payment (days): 15

Contract Times with all approved Change Orders:

Substantial completion (date): March 2, 2018

Ready for final payment (date): March 30, 2018

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:

# Change Order

## Instructions

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### 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 Directive 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.

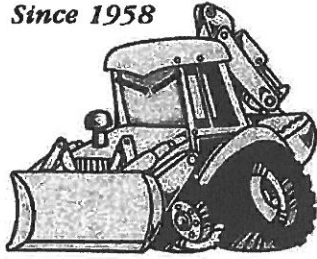
### B. COMPLETING THE CHANGE ORDER FORM

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.

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## Proposal

1/24/18

### Fiber Optic RFP 01

#### Scope of Work

CL Carroll is providing a proposal to install new Fiber Optic cable between 2 existing SCADA panels. Approximately 800' using an existing raceway. Fiber Optic cable and terminations are by others (Automatic Systems).

Total Price Change	\$3045.00
Total time extension	15 days

**Price is good for 10 days from today.**

Jon Rissman

CL Carroll Co



ELECTRICAL / MECHANICAL / REFRIGERATION

## **Request for Change**

**Project: West DSM Water Slaker Project**

**Project #: 177889**

**Date: 1/24/2018**

**Owner: West DSM Water**

**To: CL Carroll**

**Distribution To: N/A**

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### **DESCRIPTION:**

**Install a Fiber Optic Cable (800' approximate) between the (2) existing SCADA Panels, using an existing raceway. Fiber Optic Cable and termination will be furnished by others.**

**Cost of this project is:      \$2,900.00      (Two Thousand Nine Hundred Dollars)**

**BY: Audie Henderson  
Manager  
Innovative Mechanical Services  
Electrical Department**