



Item: Change Order No. 1: Wastewater Treatment Plant Disinfection and Ammonia Removal Improvements, O.F. 1633.0

From: Engineering Division

Initiated By: Public Works Department

Presented By: Jim Rearden, Public Works Director

Action Requested: Approve Change Order

Suggested Motion:

1. Commissioner moves:

"I move the City Commission approve Change Order No. 1 in the amount of \$103,106.00 to Swank Enterprises for the Wastewater Treatment Plant Disinfection and Ammonia Removal Improvements, O. F. 1633.0, and authorize the City Manager to execute the agreements."

2. Mayor calls for a second, discussion, public comment, and calls for the vote.

Staff Recommendation: Approve Change Order No. 1.

Background:

Significant Impacts

Major improvements to the Wastewater Treatment Plant were implemented with this construction contract to meet new permit limits. This Change Order changes the Final Clarifier #4 component material from a coated steel to stainless steel. It also adds 60 days to the contract time.

Workload Impacts

HDR, along with its partner firm Morrison Maierle, Inc. (MMI), completed the design of upgrades required at the Wastewater Treatment Plant to meet the new Montana Department of Environmental Quality (DEQ) permit requirements, and have provided bidding, construction inspection, and administrative services. City engineering and treatment staff, along with Veolia staff are assisting with project review and administration duties.

Purpose

The manufacturer of the clarifier equipment being supplied for Final Basin #4, Clearstream, proposed the possibility of providing stainless steel for all submerged components in lieu of the coated steel that was specified in the bid documents. The total cost of that upgrade was \$103,106.00. The cost of recoating a clarifier was then compared to the estimated service life of the stainless steel components. A recent coatings project had been completed at the Waste Water Treatment plant in 2010 (O.F. 1374.0). This project sandblasted all the metal clarifier equipment in Final Basins 1, 2, and 3 and recoated them. The approximate cost to recoat each tank was \$91,000. Using a 40 year service life for the clarifier equipment, it was estimated that the equipment would need to be recoated 3 times during that period for a cost of \$273,000 without including any inflation or present worth analysis. With the initial capital cost of \$103,106.00, but without any major recoating projects required after that, the stainless steel option made financial sense and added value to the project.

There were also other changes in the project which, while they did not cause the final project value to increase, did require additional time for completion. The most significant item involves the reconfiguration of two dewatering lines. For this and various small items changed during construction, City staff proposes extending the contract time by 60 days with this Change Order. All of the major project milestones for permit compliance were met by the contractor.

Project Work Scope

This Change Order will fund replacing the coated steel components in Final Clarifier #4 with stainless steel components. An additional 60 calendar days will be added to the contract time of the existing contract.

Evaluation and Selection Process

Seven bids were received and opened for this project on April 24, 2013. The base bids ranged from \$13,476,582.00 to \$15,148,000.00. Swank Enterprises submitted the low bid and executed all the necessary bid documents. Two additive bid items were accepted based on value. This brings the final bid total for Swank Enterprises to \$14,346,582.00.

Conclusion

City staff recommends approving Change Order No. 1 for the Wastewater Treatment Plant Disinfection and Ammonia Removal Improvements, O. F. 1633.0, to Swank Enterprises in the amount of \$103,106.00. The value of the contract will increase from \$14,346,582.00 to \$14,449,688.00, a 0.72 percent increase.

Fiscal Impact:

The attached document summarizes the costs associated with this Change Order. This increase to the project cost will be funded through the existing State Revolving Fund Loan and has been approved by the Montana Department of Environmental Quality.

Alternatives:

The City Commission could vote to deny this Change Order.

Attachments/Exhibits:

1. Change Order Summary

Change Order

No. 1

Date of Issuance: January 22, 2015

Effective Date: February 3, 2015

Project: **WWTP Disinfection and Ammonia Removal Improvements**

Owner: **City of Great Falls**

Owner's Contract No.:

1633.0 SRF # C301297

Contract: **WWTP Disinfection and Ammonia Removal Improvements, O.F. 1633.0**

Date of Contract:

May 7, 2013

Contractor: **Swank Enterprises**

Engineer's Project No.:

182039

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

Description: **Changed wetted components of the Final Clarifier #4 equipment to Stainless Steel 304-SS and adding additional contract time for CPR #57**

Attachments: (List documents supporting change): **CPR #10**

CHANGE IN CONTRACT PRICE:

Original Contract Price:

\$14,346,582.00

☐ [Increase] ☐ [Decrease] from previously approved Change Orders No. ___ to No. ___:

\$ _____

Contract Price prior to this Change Order:

\$14,346,582.00

☒ [Increase] ☐ [Decrease] of this Change Order:

\$103,106.00

Contract Price incorporating this Change Order:

\$14,449,688.00

CHANGE IN CONTRACT TIMES:

Original Contract Times: ☐ Working days ☒ Calendar days

Substantial completion (days or date): **548 days**

Ready for final payment (days or date): **580 days**

☐ [Increase] ☐ [Decrease] from previously approved Change Orders No. ___ to No. ___:

Substantial completion (days): _____

Ready for final payment (days): _____

Contract Times prior to this Change Order:

Substantial completion (days or date): **548 days**

Ready for final payment (days or date): **580 days**

☒ [Increase] ☐ [Decrease] of this Change Order:

Substantial completion (days or date): **60**

Ready for final payment (days or date): **60**

Contract Times with all approved Change Orders:

Substantial completion (days or date): **608**

Ready for final payment (days or date): **640**

RECOMMENDED:

By: _____
Engineer (Authorized Signature)

Date: _____

Approved by Funding Agency (if applicable): _____

ACCEPTED:

By: _____
Owner (Authorized Signature)

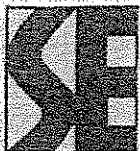
Date: _____

ACCEPTED:

By: 
Contractor (Authorized Signature)

Date: **1-22-15**

Date: _____



SWANK ENTERPRISES/ GENERAL CONTRACTORS

P.O. BOX 10007
750 WEST RESERVE DR.
KALISPELL, MT. 59904-3007
406/752-5411 - FAX 756-8765

24 September 2013

Coralynn Revis
HDR Engineering
1715 South Reserve Street
Suite C
Missoula, MT 59801

Re: GFWWTP Improvements
Subject: CPR#10
Change Wetted Components to 304-SS on Clarifier

Dear Cora:

We are submitting the cost to Change Wetted Components to 304-SS on Clarifier as follows:

Work by Clearstream	\$61,300.00
OH&P	<u>\$9,195.00</u>
Total This Change	\$70,495.00

If you have any questions, please call.

Very Truly Yours,

Robert G. Meinhardt
Project Manager

Stainless steel baffle supports = \$15,525 + 15%
O&P = \$17,854
Stainless steel walkway and platform = \$12,832
+ 15% O&P = \$14,757
TOTAL = \$103,106
Approved: Coralynn Revis 10/25/2013



September 23, 2013

Swank Enterprises, Inc.
P.O. Box 10007
Kalispell, MT 59901
Attn: Bob Meinhardt

Subject: Great Falls WWTP Improvements
CSE Proposal: 13-093R3
CSE Job No.: J13-011

Dear Mr. Meinhardt;

The cost deduct for surface preparation, prime coat, and finish coat of paint for all submerged ferrous steel is: <\$ 30,932>

The cost addition for all submerged components to be 304SS is: \$ 92,232

Total Cost Addition: \$ 61,300

Please let us know if you have any questions.

Sincerely;

Jeff W. Belnap

Director of Sales and Marketing

Cc: B. Bartholomew
Job File



CHANGE PROPOSAL REQUEST
(Not A Change Order)

HDR ENGINEERING, INC.

Project: Great Falls WWTP Disinfection and Ammonia Removal Improvements

CPR No.: 010

CPR Date: 9/13/2013

Date Sent to Contractor: 9/13/2013

Date Rec'd from Contractor: _____

TO: Swank Enterprises

Please furnish your proposal for executing the following changes(s):

Stainless steel clarifier mechanism.

Carol L. Bero

HDR _____ Date: 9/13/2013

TO: HDR Engineering, Inc.

Proposal:

Cost _____ Credit _____

(A time extension is not required for this modification unless otherwise detailed and justified.)

Contractor Kel + Mel Date 9-24-13

TO: _____

Accepted/Not Accepted _____

HDR: Date _____

Accepted/Not Accepted _____

Owner: Date _____