



Public Works Utility Operations

DATE: March 26, 2024

FROM: Michelle Klose, Director Public Works Utilities

ITEM: Change Order No. 3 to Swanberg Construction's Contract WTP Filters 1-6 & 12 MGD Accelerator Project

REQUEST:

Approval of Change Order No. 3 to Swanberg Construction's Contract for Water Treatment Plant Filters 1-6 & 12 MGD Accelerator Project

BACKGROUND INFORMATION:

Change order No. 3 to Swanberg Construction's contract for the Water Treatment Plant (WTP) filters 1-6 face piping replacement and 12 MGD accelerator effluent pipe improvement project addresses a change to underfloor piping, flanged bends, pipe coating, sealing the effluent drop box on the 12 MGD accelerator, in addition to some specialty piping. The amount of the change order is \$6434.00. To accommodate the changes, a time extension to April 15, 2024 is necessary.

RECOMMENDED CITY COMMISSION ACTION:

Approve Change Order No. 3 in the amount of \$6434.00 and the time extension to April 15, 2024 to Swanberg Construction's WTP Filter 1-6 face piping replacement and 12 MGD accelerator effluent pipe improvements project.

STAFF CONTACT INFORMATION:

Amber Araujo, Executive Assistant, 701-355-1739, aaraujo@bismarcknd.gov

ATTACHMENTS:

1. Change Order No. 3_Contract No. 1_Swanberg

CHANGE ORDER NO. 3: CONTRACT NO. 1 – GENERAL CONSTRUCTION

Owner: City of Bismarck, ND Owner's Project No.: 2022-085
Engineer: HDR Engineering, Inc. Engineer's Project No.: 10340857
Contractor: Swanberg Construction, Inc. Contractor's Project No.:
Project: City of Bismarck, ND Water Treatment Plant
Contract Name: Filters 1-6 Face Piping Replacement and 12 MGD Accelerator Effluent Pipe Improvs
Date Issued: March 8, 2024 Effective Date of Change Order: March 8, 2024

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

Description:

1. For Filters 4 thru 6, leave in place portion of the underfloor piping and connect the new filter influent/backwash supply piping to the existing cast iron 45-degree bends cast into and under the floor/walls (See Swanberg letter dated December 26, 2023, with deduct in price of \$38,130.00).
2. For Filters 1 thru 5, due to differing conditions with the filter-to-waste control valves, replace 2-6" 90-degree flanged bends with 2-45-degree flanged bends and a 2.25" filler flange (See Swanberg letter dated December 27, 2023, with increase in price of 3,998.00)
3. For Filters 1 thru 3, coat the filter effluent/backwash supply piping inside the Clearwell (See Swanberg letter dated December 27, 2023, with increase in price of \$15,820.00).
4. Seal leaking concrete effluent drop box on the 12 MGD Accelerator (See Swanberg letter dated February 1, 2024 with increase price of \$3,657.00).
5. Provide Specialty pipe support for 36-inch Effluent Pipe from 12 MGD Accelerator to maintain clear space for walkway (See Swanberg letter dated March 8, 2024 with increase price of \$19,193.00).
6. Change Vent Piping over the combined effluent channel from the 6 MGD and 12 MGD Accelerators from one 12-inch ductile iron pipe vent to two 8-inch schedule 40 PVC Pipe vents (See Swanberg letter dated March 8, 2024 with increase price of \$1,896.00).
7. Increase the substantial completion date by 29 days and the final completion date by 31 days, due to coordination delays with Contract No. 2 and the functional testing of the new filter control panel and the new filter valves.

Attachments:

1. Letter from Swanberg to HDR dated December 26, 2023, with cost to leave in place portion of piping under the floor for filters 4 thru 6.
2. Letter from Swanberg to HDR dated December 27, 2023, with cost breakdown and supporting documents for replacing the 90-degree bends with 45-degree bends on the filter to waste piping for filters 1 thru 5.
3. Letter from Swanberg to HDR dated December 27, 2023, with cost breakdown and supporting documents for coating the filter effluent/backwash supply piping inside the Clearwell.
4. Letter from Swanberg to HDR dated February 1, 2024, with breakdown and supporting documents for sealing the leak in the concrete effluent drop box for the 12 MGD Accelerator.
5. Letter from Swanberg to HDR dated March 8, 2024, with breakdown and supporting documentation for the pipe support for the 36-inch Accelerator Effluent Pipe.
6. Letter from Swanberg to HDR dated February 27, 2024, with breakdown and supporting documentation for the revised vent piping over the combined effluent channel from the 6 MGD and 12 MGD Accelerators.

Change in Contract Price	Change in Contract Times
Original Contract Price: \$ <u>2,174,000.00</u>	Original Contract Times: Substantial Completion: <u>March 1st, 2024</u> Ready for final payment: <u>March 15th, 2024</u>
N/A from previously approved Change Orders No. N/A to No. N/A: \$ <u>25,612</u>	N/A from previously approved Change Orders No. N/A to No. N/A: Substantial Completion: <u>N/A</u> Ready for final payment: <u>N/A</u>
Contract Price prior to this Change Order: \$ <u>2,199,612.00</u>	Contract Times prior to this Change Order: Substantial Completion: <u>March 1st, 2024</u> Ready for final payment: <u>March 15th, 2024</u>
Increase this Change Order: \$ <u>6,434.00 (See Cost Breakdown Attached)</u>	Increase this Change Order: Substantial Completion: <u>29 Days</u> Ready for final payment: <u>31 Days</u>
Contract Price incorporating this Change Order: \$ <u>2,206,046.00</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>March 29th, 2024</u> Ready for final payment: <u>April 15th, 2024</u>

Recommended by Engineer (if required)

By: Kevin F. Newman
 Title: Project Engineer
 Date: 03/08/2024

Accepted by Owner

Accepted by Contractor

By: D. J. [Signature]
 Title: President
 Date: 3/8/2024

Approved by Funding Agency (if applicable)

Bismarck WTP - Filters 1-6 Face Piping Replacement and 12 MGD Accelerator Effluent Pipe Improvements
Project Number: 10340857

Change Order No. 3 Cost Summary

Description	Amount	Days
For Filters 4 thru 6, leave in place portion of the underfloor piping and connect the new filter influent/backwash supply piping to the existing cast iron 45-degree bends cast into and under the floor/walls	(\$38,130.00)	0
For Filters 1 thru 5, due to differing conditions with the filter-to-waste control valves, replace 2-6" 90-degree flanged bends with 2-45-degree flanged bends and a 2.25" filler flange	\$3,998.00	0
For Filters 1 thru 3, coat the filter effluent/backwash supply piping inside the Clearwell	\$15,820.00	0
Seal leaking concrete effluent drop box on the 12 MGD Accelerator.	\$3,657.00	0
Provide Specialty pipe support for 36-inch Effluent Pipe from 12 MGD Accelerator to maintain clear space for walkway.	\$19,193.00	0
Change Vent Piping over the combined effluent channel from the 6 MGD and 12 MGD Accelerators from one 12-inch ductile iron pipe vent to two 8-inch schedule 40 PVC Pipe vents.	\$1,896.00	
Substantial Completion Days Extension		29
Final Completion Days Extension		31
Total	\$6,434.00	

SWANBERG CONSTRUCTION, INC

BUILDING-MUNICIPAL/HEAVY CONTRACTORS

Phone: 701-845-6946
Fax No: 701-845-8999

250 Central Ave S
PO Box 728
Valley City, ND 58072-0728



December 26, 2023

HDR Engineering.
101 South Philips Ave, Suite 401
Sioux Falls, SD 57103

Attn: Kevin Newman, PE

Re: Bismarck WTP Filters 1-6 Face Piping
Revised- Change Proposal No. 3_ ledged joints and under floor pipe deduct

Gentlemen,

The following is a cost breakdown to leave in place a portion of the underfloor piping and connect to the existing cast iron 45 degree bends cast into and under the floor/walls of filters 4 thru 6.

Filters 4 – 6 Labor, Tools and Equipment deduct	<38,130.00>
Total deduct	<38,130.00>

Respectfully Submitted,

Kent Swanberg
Swanberg Construction

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Fax No: 701-845-8999

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December 27, 2023

HDR Engineering.
101 South Philips Ave, Suite 401
Sioux Falls, SD 57103

Attn: Kevin Newman, PE

Re: Bismarck WTP Filters 1-6 Face Piping
Change Proposal No. 5- filter to waste 45s and fillers

Gentlemen,

Due to differing conditions- the following is a cost proposal to replace 2- 6" 90 degree flanged bends with 2- 45 degree flanged bends and a 2.25" filler flange. This was required on filters 1 thru 5- filter to waste piping. The double 90 degree bends hit the floor – floor uneven and slopes. Refer to sheet 00D901 -attached. Also, attached invoice for the material to replace the 6" 90's.

Credit for qty 10 - 90 degree bends (less shipping and 25% restock fee)	<\$1,101.00>
Material	4,099.00
Labor, Equipment and Incidentals 4 hrs at \$135.00	<u>540.00</u>
Subtotal	\$3,538.00
Overhead, Bond and profit	<u>460.00</u>
Total	\$3,998.00

Respectfully Submitted,

Kent Swanberg
Swanberg Construction

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December 27, 2023

HDR Engineering.
101 South Philips Ave, Suite 401
Sioux Falls, SD 57103

Attn: Kevin Newman, PE

Re: Bismarck WTP Filters 1-6 Face Piping
Change Proposal No. 4_ coating DIP inside clearwell_ filters 1-3

Gentlemen,

The following is a cost breakdown to coat the filter effluent/backwash supply piping inside the clearwell on filters 1 thru 3. Quote and material product data attached from Protech Contracting services. Includes prepping and coating the 3 sets of 20" DIP in place. Prepping as best as possible with power tools and sanding. The contractor cannot warranty the coating system.

Subcontractor – Protech	\$9,800.00
Supervision, Labor and Equipment	<u>4,200.00</u>
Subtotal	\$14,000.00
Overhead, Bond and profit	<u>1,820.00</u>
Total	\$15,820.00

Time extension of 3 weeks will be required.

Respectfully Submitted,

Kent Swanberg
Swanberg Construction

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February 1, 2024

HDR Engineering.
101 South Philips Ave, Suite 401
Sioux Falls, SD 57103

Attn: Kevin Newman, PE

Re: Bismarck WTP Filters 1-6 Face Piping
Change Proposal_ seal leaking accelator concrete effluent drop box

Gentlemen,

The following is a cost breakdown for material, labor and equipment to clean the interior of the concrete drop box at the 13 million gallon accelator. Locate the crack, prep the concrete and seal the crack. If this does not seal the leak to the satisfaction of the owner- crack injection or Zypex system can be completed by Swanberg Construction's personell after the accelator is in operation.

Labor	\$2,826.00
Material and equipment	<u>410.00</u>
Sub-Total	\$3,236.00
Overhead, Bond and Profit	<u>421.00</u>
Total	\$3,657.00

Respectfully Submitted,

Kent Swanberg
Swanberg Construction

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March 8, 2024

HDR Engineering.
101 South Philips Ave, Suite 401
Sioux Falls, SD 57103

Attn: Kevin Newman, PE

Re: Bismarck WTP Filters 1-6 Face Piping
Revised Change Proposal_ pipe support 36" clarifier effluent

Gentlemen,

The following is a cost breakdown for material, labor and equipment for revised pipe support at the 36" clarifier effluent pipe- New column and beam support in lieu of reusing existing support.

Labor	\$6,712.00
Material	
Mid America	4,278.00
Plant and Flanged	4,746.00
Freight	500.00
Equipment and Incidentals	<u>600.00</u>
Sub-Total	\$16,836.00
Overhead, Bond and Profit	<u>2,357.00</u>
Total	\$19,193.00

Respectfully Submitted,

Kent Swanberg
Swanberg Construction

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February 27, 2024

HDR Engineering.
101 South Philips Ave, Suite 401
Sioux Falls, SD 57103

Attn: Kevin Newman, PE

Re: Bismarck WTP Filters 1-6 Face Piping
Change Proposal_ vent pipe revision

Gentlemen,

The following is a cost breakdown for material, labor and equipment for the revised vent piping- change from 1 – 12” DIP vent to 2 – 8” sch 40 PVC.

Labor	285.00
Material	<u>1,366.00</u>
Sub-Total	1,651.00
Overhead, Bond and Profit	<u>245.00</u>
Total	\$1,896.00

Respectfully Submitted,

Kent Swanberg
Swanberg Construction