

Grand Ledge City Council Resolution # _____ of 2023

A Resolution to Approve Change Order No. 7 to the Iron Removal Facility Project.

A resolution adopted by the Grand Ledge City Council, at a regular meeting held on Monday, 13 November 2023, in the Council Chambers, City Hall, 310 Greenwood St., Grand Ledge MI 48837, in compliance with the Open Meetings Act, as amended.

Whereas, the City of Grand Ledge, Michigan (“City”) is a municipal corporation organized under the provisions of the Home Rule City Act, Public Act 279 of 1909, as amended, and is governed by the provisions of the Grand Ledge City Charter adopted 07 August 2018, as amended (“Charter”); and

Whereas, Charter §13.1A provides:

“The power to make and to authorize the making of contracts on behalf of the City is vested in the City Council and shall be exercised in accordance with the provisions of law”; and

Whereas, the City previously approved a proposal and authorized a contract for construction services for the Iron Removal Facility Project from Fishbeck; and

Whereas, the City Manager previously approved Change Order No. 6 for the Iron Removal Facility Project, under the authorization of Resolution #36 of 2022 and Resolution #60 of 2022; and

Whereas, Fishbeck has submitted Change Order No. 7 for the Iron Removal Facility Project;

Now, Therefore, It Is Resolved:

1. The City approves Change Order No. 7 to the Iron Removal Facility Project, as attached.
2. The City directs the City Manager and Finance Director / Treasurer to appropriate the funds necessary to implement said change order.
3. The City Manager, or their duly authorized agent or representative, is authorized and directed to implement said change order on behalf of the City; to do any other act(s) or thing(s) which shall be necessary to implement said change order on behalf of the City; to preserve and protect the rights, duties and obligations of the City thereunder; and to do any act or thing required by statute, Charter, ordinance, rule, regulation or other provision of law in order to implement said change order.

Motion by

Second by

Ayes:

Nays:

Absent:

Approved:

Keith O. Mulder, Mayor

I, Gregory L. Newman, Grand Ledge City Clerk, certify this is Resolution #_____ of 2023, adopted by the Grand Ledge City Council at a regular meeting held on Monday, 13 November 2023; in the Council Chambers, City Hall, 310 Greenwood St., Grand Ledge MI 48837, in compliance with the Open Meetings Act, as amended.

Gregory L. Newman, City Clerk

October 24, 2023
Project No. 210262

Adam Smith
City Manager
City of Grand Ledge
310 Greenwood Street
Grand Ledge, MI 48837

Change Order 7 – City of Grand Ledge Iron Removal Plant, Description, and Impact

The following is a description of the items for Change Order 7 of the Grand Ledge Iron Removal Plant Project:

Contract Modifications from Change Order

- Original Contract Price – \$17,338,148.00
- Contract Price following previous Change Orders – \$17,220,026.23
- Modification to Contract Price from Change Order 7 – \$7,507.13
- Modification to Contract Price from all Change Orders – (\$110,614.64)
- Revised Contract Price with current Change Order – \$17,227,533.36

Table 1 – Change Order 7 Monetary Impact Breakdown

Item No.	Item Description	Contract Modification	Cumulative Contract Price
1	Flowmeter Size Change	(\$4,161.00)	\$17,215,865.23
2	Day Tank Pressure Relief Valves	\$6,684.93	\$17,222,550.16
3	Reduce Memory of PLCs	(\$11,345.00)	\$17,211,205.16
4	Change CPVC to PVC for Exhaust	(\$5,000.00)	\$17,206,205.16
5	Modification to Site Grading	\$0.00	\$17,206,205.16
6	Modification to Pressure Filter Supports	\$21,328.20	\$17,227,533.36

Narrative Description of Change Order

Change Order 7 includes the reduction of flow meter size, addition of pressure relief valves to day tanks, reduction of memory for PLCs at the well houses, modification of chemical room exhaust piping from CPVC to PVC, some minor site grading modifications, and modification to the concrete footings to support the pressure filters as presented in the shop drawings.

The items are as follows:

ITEM NO. 1

- Flowmeters submitted were too large in relation to piping:
 - 16" flowmeters were submitted whereas only 12" flowmeters are needed.

ITEM NO. 2

- Day Tank Pressure Relief Valves:
 - Recent changes to AWWA guidance recommend a pressure relief valve on tanks without an overflow (small day tanks). This adds those to each day tank.

ITEM NO. 3

- Reduce Memory of PLCs:
 - As a cost reduction measure, the PLCs at the well houses were reduced in memory. They have less I/O than the plant or the booster station which allows for this reduction.

ITEM NO. 4

- Change CPVC to PVC for Exhaust:
 - As a cost reduction measure, the exhaust piping for the chemical rooms was switched to PVC. This piping will provide similar service to CPVC but is more readily available and less expensive.

ITEM NO. 5

- Modification to Site Grading:
 - Some modifications were made to the site grading in relation to the changed supports of the pressure filters.

ITEM NO. 6

- Modification to Pressure Filter Supports:
 - Modifications were made to the support of the pressure filters based on provided Shop Drawings. The locations of the supports provided during design were preliminary in nature. When the fabrication drawings were created, it modified the location of said supports. The concrete below the supports was adjusted to provide support for the pressure filters.

Impact to Project

The items within this Change Order are not expected to impact the schedule and will add \$7,507.13 to the project cost.

If you have any questions or require additional information, please contact me at 616.464.3825 or cmccorkle@fishbeck.com.

Sincerely,



Colin G. McCorkle, PE

Senior Water and Wastewater Engineer

Attachments

By email

Copy: David Pawley – City of Grand Ledge
Kurt Ristow – City of Grand Ledge
Dave Baar, PE – Fishbeck
John Willemin, PE – Fishbeck

CHANGE ORDER
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CONTRACT FOR:	City of Grand Ledge Iron Removal Plant
OWNER:	City of Grand Ledge 310 Greenwood Street Grand Ledge, MI 48837
CONTRACTOR	RK Davis, Inc. 4457 40th Street, SE Kentwood, MI 49512
ENGINEER:	Fishbeck 1515 Arboretum Drive, SE Grand Rapids, MI 49546
ATTACHMENTS:	Bulletin 6 with pricing from the Contractor
Contractor shall indicate approval of Change Order through signing of this document and returning to Engineer. Engineer will forward to Owner, who shall indicate approval of Change Order through signing of this document and returning to Engineer. Upon receipt of fully executed (all signatures) Change Order, Engineer will distribute to all parties.	
YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THE CONTRACT DOCUMENTS:	
The following items changing the contract documents were chosen by the Owner from Change Proposal 1 for execution:	
<u>ITEM NO. 1:</u> Flowmeter Size Change Section: 40 90 00 – Instrumentation and Control for Process Systems	
A. Replace Paragraph 2.3.F.1.h.8) with the following: 12" FE/FIT-410 0-5 MGD	
B. Replace Paragraph 2.3.F.1.h.9) with the following: 12" FE/FIT-411 0-5 MGD	
DEDUCT: \$4,161.00	
<u>ITEM NO. 2:</u> Day Tank Pressure Relief Valve Sheet: P003 – Schedules and Details P204 – Enlarged Plans and Isometric	
A. Addition of Pressure Relief Valve to Phosphate and Fluoride Day Tanks.	
ADD: \$6,684.93	
<u>ITEM NO. 3:</u> Reduce Memory of PLCs Section: 40 90 00 – Instrumentation and Control for Process Systems	
A. Replace Paragraph 2.2.G.1.a.2) with the following: 2) Processor minimum memory: a) Control Panels CP-MAIN and CP-BPS: 3MB memory (5069-L330ER). b) Control Panels CP-WELL2, CP-WELL6, CP-WELL7, and CP-WELL8: 1MB memory (5069-L310ER).	
DEDUCT: \$11,345.00	
<u>ITEM NO. 4:</u> Change CPVC to PVC for Exhaust Sheet: M501 – First Floor Mechanical Sheet Metal Plan M901 – Schedules Section: 23 31 16 – Nonmetal Ducts	
A. Change chemical room ducts from CPVC to PVC. B. 23 31 16 bid document specification has been replaced in entirety with Bulletin 6 specification.	
DEDUCT: \$5,000.00	

CHANGE ORDER
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ITEM NO. 5: Modification to Site Grading	
Sheet:	C301 – Site Grading Plan
A. Revise grades at concrete pad west of Water Plant beneath tanks.	
B. Revise grades in parking area northwest of Water Plant.	
ADD: \$0.00	
ITEM NO. 6: Modification to Pressure Filter Supports	
Sheet:	S101 – Foundation Plan S301 – Sections and Details
A. Revise filter foundation wall and footing geometry, size, location, and elevation based on manufacturer comments. Add infill between filter foundation wall and building foundation wall.	
B. Revision 1: Revise filter foundation wall location as shown on drawings.	
ADD: \$21,328.20	

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES: N/A
Original Contract Price:	Original Contract time: <u>March 7, 2023</u>
<u>\$17,338,148.00</u>	Substantial Completion: <u>January 16, 2025</u>
	Ready for final payment: <u>February 17, 2025</u>
Previous Change Order No.: 1-6	Net change from previous Change Orders:
<u>(\$118,121.77)</u>	<u>0 Days</u>
Contract Price prior to this Change Order:	Contract Time prior to this Change Order:
<u>\$17,220,026.23</u>	Substantial Completion: <u>January 16, 2025</u>
	Ready for final payment: <u>February 17, 2025</u>
Net increase of this Change Order:	Net change of this Change Order:
<u>\$7,507.13</u>	<u>0 Days</u>
Contract Price with all approved Change Orders:	Contract Time with all approved Change Orders:
<u>\$17,227,533.36</u>	Substantial Completion: <u>January 16, 2025</u>
	Ready for final payment: <u>February 17, 2025</u>

RECOMMENDED	APPROVED	APPROVED
By: <u>Colin G. McCorkle</u>	By: <u>Peter C. Elzinga</u>	By: _____
Engineer	Contractor	Owner
<u>Colin G. McCorkle, PE</u>	<u>Peter C. Elzinga, P.E. Project Manager</u>	_____
Sr. Water/Wastewater Engineer	Name and Title of Signatory	Name and Title of Signatory
Date: <u>October 23, 2023</u>	Date: <u>October 23, 2023</u>	Date: _____

END OF CHANGE ORDER

BULLETIN
PAGE 1 OF 3

CONTRACT FOR:	City of Grand Ledge Iron Removal Plant
OWNER:	City of Grand Ledge 310 Greenwood Street Grand Ledge, MI 48837
CONTRACTOR:	RK Davis, Inc. 4457 40th Street, SE Kentwood, MI 49512
ENGINEER:	Fishbeck 1515 Arboretum Drive, SE Grand Rapids, MI 49546
DRAWING REVISION NO.:	B6-R1
ISSUED HEREWITH:	
SPECIFICATION SECTIONS:	23 31 16 – Nonmetal Ducts 23 81 13 – Packaged Terminal Air Conditioners
SHEETS:	C301, S101 , S301 , P003, P204, M501, M901
DISTRIBUTION:	Kurt Ristow – City of Grand Ledge Peter Elzinga – RK Davis, Inc. Rob Kaliniak – RK Davis, Inc. Jodie Ross, PE – Fishbeck John Willemin, PE – Fishbeck
<p>The items below are being considered as possible changes to the Contract Documents for this Project. Contractor is requested to submit changes in cost, if any, for each item and indicate whether it is an addition to or deduction from the Contract Price. Costs are requested as lump sums unless otherwise noted as a unit cost. Include all labor, materials, overhead and profit, trades, subcontractors, and related costs. After reviewing the effects of those changes in the Work, Owner may issue a Change Order specifying which changes are to be incorporated in the Work, if any.</p> <p>This Bulletin is not a Change Order and is not to be deemed authorization to proceed with the changes listed.</p> <p>Additional work or materials, where proposed, shall meet the requirements of the Contract Documents, except where noted.</p> <p>Contractor is responsible for notifying Engineer, in writing, concerning any revision or clarification which causes a change in the Contract Documents, but not specifically mentioned as a cost item in this Bulletin.</p> <p>Return one completed and signed copy of the Bulletin to Engineer on or before the due date noted above.</p> <p>Each proposed change has been described briefly with additional information provided concerning detailed changes required for the major trades concerned. Only one total cost figure has been requested for each item on the Bulletin; however, a complete breakdown is required for each item as supporting documentation. This will allow Owner to more easily evaluate the proposed cost changes. Each Bulletin item is an all-inclusive item and may concern work from several trades or Subcontractors. It is Contractor's responsibility to ensure that all work for each item has been included in the total cost figure provided to Owner.</p>	

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ITEM NO. 1: Flowmeter Size Change

Section: 40 90 00 – Instrumentation and Control for Process Systems (not reissued)

A. Replace Paragraph 2.3.F.1.h.8) with the following:

"12" FE/FIT-410 0-5 MGD"

B. Replace Paragraph 2.3.F.1.h.9) with the following:

"12" FE/FIT-411 0-5 MGD"

ADD/DEDUCT: (\$4,161.00)

ITEM NO. 2: Day Tank Pressure Relief Valve

Sheet: P003 – Schedules and Details (reissued)
P204 – Enlarged Plans and Isometric (reissued)

A. Addition of Pressure Relief Valve to Phosphate and Fluoride Day Tanks.

ADD/DEDUCT: \$ 6,684.93

ITEM NO. 3: Computer Monitors

Sheet: I001 – Control System Configuration Diagram (not reissued)

A. Provide two additional 24-inch SCADA monitors so that each computer tower has two monitors for a total of four 24-inch monitors.

ADD/DEDUCT: \$ 2,357.10

ITEM NO. 4: Reduce Memory of PLCs

Section: 40 90 00 – Instrumentation and Control for Process Systems (not reissued)

A. Replace Paragraph 2.2.G.1.a.2) with the following:

2) Processor minimum memory:

a) Control Panels CP-MAIN and CP-BPS: 3MB memory (5069-L330ER).

b) Control Panels CP-WELL2, CP-WELL6, CP-WELL7, and CP-WELL8: 1MB memory (5069-L310ER).

ADD/DEDUCT: (\$11,345.00)

ITEM NO. 5: Change CPVC to PVC for Exhaust

Sheet: M501 – First Floor Mechanical Sheet Metal Plan (reissued)
M901 – Schedules (reissued)

Section: 23 31 16 – Nonmetal Ducts (reissued)

A. Change chemical room ducts from CPVC to PVC.

B. 23 31 16 bid document specification has been replaced in entirety with Bulletin 6 specification.

ADD/DEDUCT: (\$5,000.00)

ITEM NO. 6: Damper Controller Modification

Section: 23 81 13 – Packaged Terminal Air Conditioners (reissued)

A. Specify blower coil unit controller with time schedule and integral I/O board. Controller output required to open/close outside air damper during occupied/unoccupied hours, per sequence of operation.

ADD/DEDUCT: \$ 5,272.04

ITEM NO. 7: Modification to Site Grading

Sheet: C301 – Site Grading Plan (reissued)

B. Revise grades at concrete pad west of Water Plant beneath tanks.

C. Revise grades in parking area northwest of Water Plant.

ADD/DEDUCT: \$ 0.00

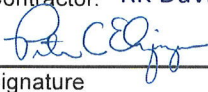
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ITEM NO. 8: Modification to Pressure Filter Supports
Sheet: S101 – Foundation Plan (reissued)
S301 – Sections and Details (reissued)

- A. Revise filter foundation wall and footing geometry, size, location, and elevation based on manufacturer comments. Add infill between filter foundation wall and building foundation wall.
B. **Revision 1: revise filter foundation wall location as shown on drawings.**

~~ADD~~ DEDUCT: \$ 21,238.20

Contractor: RK Davis, Inc.


Signature

Peter C. Elzinga, P.E., Project Manager

Name and Title of Signatory

09/27/2023

Date

END OF BULLETIN