




LOGISTICS MEMORANDUM

07-08

May 24, 2007

TO: Honorable Mayor Kathleen M. Novak and City Council Members

FROM: A.J. Krieger, City Manager 
Kurt Kowar, Logistics Center Manager 
Amy Ward, Civil Engineer II 

SUBJECT: CR-49-Wastewater Treatment Plant (WWTP) Expansion Construction Contract, Change Order 63, GeoExchange HVAC Modifications

RECOMMENDATION:

Attached to this memorandum is a Resolution which, if approved, would authorize the Mayor to execute Change Order 63 to the contract between the City of Northglenn and Glacier Construction Company for an amount of \$57,988.85 to modify the HVAC system. Staff recommends approval of the proposed Resolution.

BACKGROUND:

On May 13, 2004, the City Council approved Staff Report No. 04-18 that executed a contract between the City and Glacier Construction Company to construct the Wastewater Treatment Plant Expansion project. The project included construction of three aeration basins, two secondary clarifiers, a UV disinfection building, and a secondary pump building with an electrical room and a blower room. Also included in the project was a Geoexchange system which functions as the HVAC unit for the new buildings.

Towards the end of the construction of WWTP, Integra Engineering became aware of an error in the design of the HVAC system. Integra acknowledged the error and requested that the City initiate a change order to address the work necessary for the modifications to the system. Integra indicated that they would reimburse the City for a portion of the cost of the change order.

In order to provide the necessary heat for the equipment already installed in the new buildings Integra directed Glacier Construction Company to modify the system per the directions of the engineer. The attached change order addresses Integra's portion of costs incurred by Glacier Construction Company for modifications of the HVAC system. The City will receive \$57,988.85 in reimbursement from Integra for this Change Order 63.

POTENTIAL OBJECTION:

City Staff is not aware of any specific opposition to the proposed Change Order 63.

BUDGET/TIME IMPLICATIONS:

The cost of Change Order No. 63 for Additional Design Services as proposed is \$57,988.85. Adequate funding for this amendment is available in unencumbered Water and Wastewater funds. Integra will reimburse the City of Northglenn for the cost of Change Order No. 63.

STAFF REFERENCE:

Please contact Kurt Kowar, Logistics Center Manager at kkowar@northglenn.org, or (303) 349-3772.

SPONSORED BY: COUNCIL MEMBER MONROE

COUNCILMAN'S RESOLUTION

RESOLUTION NO.

No. CR-49
Series of 2007

Series of 2007

A RESOLUTION APPROVING CHANGE ORDER NO. 63 TO THE CONTRACT BETWEEN THE CITY OF NORTHGLENN AND GLACIER CONSTRUCTION COMPANY FOR THE WASTEWATER TREATMENT PLANT EXPANSION PROJECT.

WHEREAS, the City of Northglenn entered into an Agreement dated May 13, 2004 with Glacier Construction Company for the Wastewater Treatment Plant expansion project; and

WHEREAS, Change Order No. 63 to the Agreement addresses additional costs incurred by Glacier Construction Company for modifications of the GeoExchange HVAC system.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NORTHGLENN, COLORADO, THAT:

Change Order No. 63 to the Agreement between the City of Northglenn and Glacier Construction Company for additional costs incurred for modifications of the GeoExchange HVAC system is hereby approved and the Mayor is authorized to execute same on behalf of the City of Northglenn.

DATED, at Northglenn, Colorado, this _____ day of _____, 2007.

KATHLEEN M. NOVAK
Mayor

ATTEST:

DIANA L. LENTZ, CMC
City Clerk

APPROVED AS TO FORM:

COREY Y. HOFFMANN
City Attorney

City of Northglenn

11701 Community Center Dr.

Northglenn, CO 80233

Phone: (303) 450-8774

Fax: (303) 450-8708

CHANGE ORDER

No. 00063

TITLE: HVAC Pump Changes

DATE: 3/28/2007

PROJECT: WWTP Expansion

JOB:

TO: Attn: Steve P Stephenson
Glacier Construction Company
7302 South Altan Way, Suite 4 I
Englewood, CO 80112
Phone: 3032215383 Fax: 3032215385

CONTRACT NO: 4

RE: COR

To:

From:

Number:00041

DESCRIPTION OF CHANGE

Reason For Change Order

The items listed in this Change Order are required to resolve flow and head issues associated with six of the pumps in the GeoExchange HVAC system.

Item	Description	Stock#	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
00001	Install P&T taps on all heat pumps		1		\$6,000.00	0.00%	\$0.00	\$6,000.00

The Original Contract Sum was	\$11,149,000.00
Net Change by Previously Authorized Requests and Changes	\$1,811,600.25
The Contract Sum Prior to This Change Order was	\$12,960,600.25
The Contract Sum Will be Increased	\$57,988.85
The New Contract Sum Including This Change Order	\$13,018,589.10
The Contract Time Will Not Be Changed	
The Date of Substantial Completion as of this Change Order Therefore is	...

ACCEPTED:

Glacier Construction Company

City of Northglenn

Integra Engineering

By: Steve P Stephenson
Steve P Stephenson

By: Kathleen M. Novak
Kathleen M. Novak

By: Patrick D. Radabaugh
Patrick D. Radabaugh

Date: 4/11/07

Date: _____

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00002	The following field corrections are required prior to any pump replacement work. These work items are warranty items are to be performed at no cost to the Owner. 1. Disconnect and back-flush heat pumps coils both source and load side. Consult with manufacturer if any additional acid back-flushing requirement is needed to obtain expected clean exchanger performance. 2. Climate Master O&M manual lists Mandatory usage of 20 mesh strainer on both load and source side. "Climate Master provides a 20 mesh (841 micron) strainer in the commercial price list that is REQUIRED option for all GLW units regardless of application type". This requirement is particularly essential to GLW360 model. These strainers should have been provided and installed in these heat pumps per the manufacturers specific recommendations. Contractor shall provide and install		1		\$0.00	0.00%	\$0.00	\$0.00

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City of Northglenn
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00003	required strainers on the heat pumps in project scope. Contractor to also provide O&M manual to owner instructing regular maintenance of the strainers. P-5242 & P-5243 – Source Water to the heat pumps - The current pumps installed are Armstrong 1050-2B with a 4.69 inch impellor. Replace the existing pump impellor with a new 5.10 inch impellor, ¾ hp. This will increase the pump capacity to 54gpm at 25 ft hd. Existing electrical service will not need to be changed.		1		\$14,000.00	0.00%	\$0.00	\$14,000.00
00004	P-5244 & P-5255 – Load Water to heat pumps – The existing pumps need to be replaced with new pump capable of 68 gpm at 68 ft hd. Replace existing pumps with new Armstrong 4380 2x2x10 with 8.44 inch impeller, 3 hp.		1		\$14,000.00	0.00%	\$0.00	\$14,000.00

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Item	Description	Stock#	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
00005	P-5247 - Cooling Coil service – The existing pump needs to be replaced to accommodate new head requirement of 65.7 gpm and 43 ft hd. Replace the existing pump with new Armstrong 1060-2D with 6.72 inch impeller. New pump has 1.5 hp motor to replace the existing ¾ hp motor.		1		\$8,500.00	0.00%	\$0.00	\$8,500.00
00006	P-6142 & P-6143 – Load Water to HP – Existing pumps need to be replaced with new pumps capable of 22 gpm at 60 ft hd. Replace existing pumps with new Armstrong 4380 1.5x1.5x8 with 7.8 inch impeller, 1 hp.		1		\$15,488.85	0.00%	\$0.00	\$15,488.85

Unit Cost: \$57,988.85
Unit Tax: \$0.00
Total: \$57,988.85

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