

MOORE & BRUGGINK, INC.

Consulting Engineers

2020 Monroe Avenue, N.W.

Grand Rapids, Michigan 49505-6298

September 6, 2017

Re: Charlotte WWTP Ferric System
Improvements
Project No. 150204.01

Ms. Amy Gilson
City of Charlotte
111 E Lawrence Avenue
Charlotte, Michigan 48813

Dear Ms. Gilson:

Four bids were received at 11 a.m., on Tuesday, August 22, 2017, for the Charlotte WWTP *Ferric Chloride Chemical System Improvements* project. All bid submittals were reviewed and checked for accuracy. Enclosed is a copy of the tabulation of bids.

RCL Construction Company, Inc., submitted the low bid for the project in the amount of \$648,200.00. The engineer's estimate was \$522,500.00.

Due to the difference in the engineer's estimate and the lowest bid price provided, Moore & Bruggink engaged the low-bid contractor in discussions concerning final costs and possible value-engineering areas. Through these conversations, we deduced that the bidding documents defined the project well, and the contractors were comfortable with the pricing they provided. Little additional monies were included for project unknowns due to the well-defined documents, and therefore provided a more competitive bid with close bid amounts.

Also contributing to higher bids is the current construction environment, as most contractors currently have work and can obtain larger margins for profit. This was not the case over the past few years as projects were less frequent and contractors were forced to reduce their profit margins to stay active and competitive. This has also created a higher demand for materials and labor, causing overall project construction cost increases. Across the board, we have been seeing increases in all construction project bids this year.

All contractors were asked about areas in which value-engineering could be assigned in order to decrease the overall project cost. Through multiple conversations, it was determined that some changes to project items could be made without degrading the quality of the project. These items have been included with this award letter in the form of Change Order #1.

The low bidder has a satisfactory performance record on previous projects and, following our discussions concerning the pricing, we recommend that a contract be awarded to RCL Construction Company, Inc., in the amount of \$648,200.00. This recommendation is

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contingent upon the approval of Change Order #1 at the council meeting, resulting in a deduction of \$111,191.00. This will bring the net project budget to \$537,009.00.

Sincerely,



Jeffrey S. Landers, P.E.
Project Engineer

Enclosures

cc: Brian Hannon, P.E., Moore & Bruggink, Inc.
Rod Bauer, RCL Construction Company, Inc.

MOORE & BRUGGINK, INC.

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2020 Monroe Avenue NW
Grand Rapids, Michigan 49505-6298

CHANGE ORDER

CONTRACTOR: RCL Construction Company, Inc.
777 W. Maynard Rd.
Sanford, MI 48657

PROJECT NO.: 150204.01
CHANGE ORDER NO.: 1
DATE: 09/06/2017
AMOUNT: \$111,191.00
Decrease

PROJECT: Ferric Chloride Chemical System Improvements

The following changes are hereby incorporated into the contract for the construction of the subject project:

1. Eliminate demolition of existing Ferric tanks, exhaust ductwork, Schedule 80 PVC ferric piping, pumps, day tank polymer piping, architectural patching, and rework of underground piping at MH #16. Also, all Elect demolition in existing Control/Ferric tank building.
2. Eliminate the sloped bottom of the new FRP tanks.
3. Furnish two 24"x24" FRP louvers L-1 and L-2 for tank room. Furnish one 40"x16" corrosion coated louver and damper for pump room. Furnish one EF-1 Greenheck corrosion coated ex fan and damper.
4. Eliminate the spare parts requirements listed in the specifications.
5. Eliminate the phosphorus analyzer and all electrical and mechanical work in the existing UV building.
6. Eliminate painting of existing ferric room.
7. Provide concrete stairs, aluminum railings, FRP angle and grating at sump.
8. Eliminate recirculation pump, piping, electrical, and top nozzle.
9. Eliminate HMI from CP-8 and use the plant's SCADA screens to control.
10. Eliminate the chemical fill panel and associated wiring/conduit.
11. Re-use existing metering pumps.
12. Eliminate Asphalt driveway and base material. Provide concrete slab at electrical crossing. Extend sidewalks and greenbelt to existing asphalt.
13. Change block from Bella Brick to an 8"x8"x16" colored split-faced material.

The amount of the contract will be decreased in the sum of \$111,191.00 with 0 DAYS of additional contract time.

Prepared By: Jeffrey S. Landers, P.E.

Accepted by:


RCL Construction Company, Inc.

Date:

9/6/17

Recommended by:


Moore & Bruggink, Inc.

Date:

9-6-17

Approved by:

City of Charlotte

Date:

TABULATION OF BIDS

PROJECT: Ferric Chloride Chemical System Improvements – 150204.01

BIDS RECEIVED: TIME: 11 a.m.

DATE: Tuesday, August 22, 2017

PLACE: Office of the Clerk
City of Charlotte
111 East Lawrence Avenue
Charlotte MI 48813

ENGINEER'S ESTIMATE: \$475,000.00

Contractor	Bid Bond	Bid Signed	Add #1	Add #2	Add #3	Bid Amount
RCL Construction	√	√	√	√	√	\$648,200.00
Davis Construction Co.	√	√	√	√	√	\$698,794.00
L.D. Docsa Associates	√	√	√	√	√	\$742,000.00
Grand River Construction	√	√	√	√	√	\$763,000.00
DVT Electric						—
Franklin Holwerda Co.						—
Peterson and Matz Inc.						—
Solberg Knowles and Associates						—
System Specialties						—
West Michigan Instrumentation						—