

Work Order No. 01- Change Order 03
Applicable to Agreement Dated June 1, 2017
between

Barr Engineering Co. (Barr)
4300 MarketPointe Dr.
Bloomington, MN 55435

City of Blaine (City)
10801 Town Square Drive NE
Blaine, MN 55449

Designated Representative:

Designated Representative:

Contract representative: Brian LeMon
Day-to-day contact: Michelle Stockness

Jon Haukaas

I. Scope of Work:

This document consists of an amendment to Work Order No. 01, with Change Order 02, that Barr and our subconsultants (Bolton & Menk Inc., LSEngineers Inc., Karges-Falconbridge Inc., and Wilkus Architects) are performing as follows.

A. Phase 1-3: Preliminary Design, Design, Bidding and Award- No additional scope

B. Phase 4: Construction Administration

After written authorization to proceed, Barr or one of our subconsultants shall perform the following tasks for Phase 4:

1. Added scope: additional months of construction observation and administration per the revised completion dates below.
 - a. Extension of construction contract substantial completion from March 30, 2021 to ~~June 30, 2021~~ to August 23, 2021*.
 - b. Extension of construction contract final completion from September 31, 2021 to ~~December 31, 2021~~ to November 30, 2022
 - c. Additional onsite construction observation through October 2022
 - d. Additional closeout paperwork through November 2022.
2. Total additional fees: \$89,000

Phase 4 meetings- Added scope:

1. Added scope: monthly construction meetings

Phase 4 deliverables-Additional scope:

1. Contractor coordination

C. Phase 5: Start-Up and Commissioning- No additional scope. Plant is operational.

II. Service Assumptions Upon Which Maximum Compensation is Based

| Phase | Duration | Fee | Change Order 1 | Change Order 2 | Change Order 3 | Revised Fee |
|--|-----------|--------------------|------------------|------------------|-----------------|--------------------|
| Phase 1: Preliminary Design | 6 weeks | \$134,400 | \$3,479 | \$0 | \$0 | \$137,879 |
| Phase 2: Design | 6 months | \$803,700 | \$197,895 | \$0 | \$0 | \$1,001,595 |
| Phase 3: Bidding and Award | 2 months | \$33,000 | \$0 | \$0 | \$0 | \$33,000 |
| Total Preliminary/Design/Bidding (lump sum fee) | | \$971,100 | \$201,374 | \$0 | \$0 | \$1,172,474 |
| Phase 4: Construction Administration | 28 months | \$924,000 | \$231,000 | \$200,200 | \$89,000 | \$1,444,200 |
| Phase 5: Start-up and Commissioning | 6 months | \$75,000 | \$0 | \$0 | \$0 | \$75,000 |
| Total Construction/Start-Up & Commissioning (est. time & materials fee) | | \$999,000 | \$231,000 | \$200,200 | \$0 | \$1,430,200 |
| Project total | | \$1,970,100 | \$432,374 | \$200,200 | \$89,000 | \$2,691,674 |

The total for Change Order No. 3 for existing Work Order No. 1 amounts to \$89,000.00.

Construction phase services were estimated based on similar projects and are proposed to be provided on a time-and-materials basis. Because this is proposed on a time and materials basis, we will only bill up to the amount actually needed to complete the work. The engineer has no direct control over the scheduling or operations of the project contractor, weather or equipment delivery which can impact construction timing.

III. Assumptions Upon Which Schedule is Based

| phase/task | duration | start date | completion date |
|--------------------------------------|------------|------------------|---|
| Award | 1 day | May 18, 2018 | May 18, 2018 |
| Phase 1: Preliminary Design | 6 weeks | June 20, 2018 | July 27, 2018 |
| Phase 2: Design | 6 months | July 30, 2018 | January 25, 2019 |
| Phase 3: Bidding and Award | 3 months | January 28, 2019 | March 29, 2019 |
| Phase 4: Construction Administration | 28 months* | April 1, 2019 | August 23, 2021* substantial November 30, 2022 final |
| Phase 5: Start-up and Commissioning | 4 weeks | July 2021* | August 2021 |
| Operations Assistance | 6 months | July 1, 2021 | December 31, 2021 |

* A certification of substantial completion has not been requested by the contractor or issued by the City to date.

ACCEPTED AND AGREED TO:
BARR ENGINEERING CO.

CITY OF BLAINE, MINNESOTA

By: _____

Title: Vice President

Date: _____

By: _____
Michelle A. Wolfe

Title: City Manager

Date: _____

By: _____
Tim Sanders

Title: Mayor

Date: _____