BURNS McDONNELL

TASK ORDER NO. 19
ENGINEER-OWNER AGREEMENT

This Task Order is entered into and authorized by Owner this _____day of _____, 2022, by and between City of Clinton, Oklahoma (hereinafter called OWNER) and Burns & McDonnell Engineering Company, Inc. (hereinafter called ENGINEER).

The parties agree that the ENGINEER shall perform the following Services in accordance with the terms of the Engineer-Owner Agreement dated June 2, 2014 and as amended on May 31, 2019:

1. Scope of Services:

See attached Exhibit A – Scope of Work: Chemical Feed Concept Design

2. Compensation:

The basis of compensation for the above Services shall be:

- Hourly Rate per ENGINEER's Rate Sheet, attached hereto subject to a Not-to-Exceed amount of Thirty-Six Thousand Eight Hundred and Fifty Dollars ($36,850) without further authorization.

3. Other Terms:

A. The terms of this Task Order supersede any contrary terms of the Engineer-Owner Agreement.

B. Time of Service
   a. Services will begin within one (1) week after execution of this Task Order Agreement.
   b. It is anticipated that the services set forth herein will be complete in approximately ten (10) weeks from the Notice to Proceed.
   c. Completion of Scope of Services as outlined in Exhibit A are dependent on upon timely receipt of required information, approvals, reviews, etc.

IN WITNESS WHEREOF, the parties have made and executed this TASK ORDER as of the day and year first above written.

OWNER: City of Clinton, OK	**ENGINEER: Burns & McDonnell Engineering Company, Inc.**
By: _____	By: _____
Name: _____	Name: _____
Title: _____	Title: _____

Exhibit A – Task Order 19 – Chemical Feed Concept Design

January 26, 2022

Mr. Gene McCullough
Public Works Director
City of Clinton, Oklahoma

Re: Task Order 19 – Chemical Feed Concept Design

Dear Gene:

In accordance with your request, we are pleased to submit our proposal for services on the referenced Project as follows:

PROJECT BACKGROUND

Burns & McDonnell Engineering, Inc. ("BMcD" hereafter) will provide professional services to develop a conceptual design for a new gaseous chlorine feed building for the City of Clinton Lake Water Treatment Plant. The Concept Design Report serves as the precursor to the final design of the chemical feed building, which can be completed under an amendment to this Task Order or through a separate Task Order Document. The Chemical Feed Concept Design will be comprised of multiple component parts detailed in Tasks 1 through x below.

SCOPE OF SERVICES

The following summarizes the services being proposed by BMcD:

Task 1: Meetings/Project Management

a. One teleconferenced pre-kickoff meeting will be conducted to discuss the project with client representative(s), review scope of work and deliverables, review project schedule, gather available documents, studies, and reports or updated information, and establish team communication protocols. This task has been preliminary completed with the City and the meeting will be utilized to confirm the information collected previously.
b. Bi-weekly project team status calls to discuss project progress and information needs and/or issuance of project status reports will be completed for the project.
c. One site visit to the existing water plant will be completed for collection of additional data needed for completion of the project.
d. One in-person meeting to be held with the City to present report findings and collect desired revisions and Client comments.

Task 2: Development of Chemical Feed Building Concept Design

BMcD will develop a conceptual design of the proposed Chemical Feed Building. The concept design will generally include the following:

Develop Concept Design of new chlorine gas system including storage, feed, and safety equipment.

a. Study deficiencies, potentials to increase capacity, or optimize system performance
b. Determine chlorine building size, layout, and site location
c. Determine if bulk chemicals utilized for chlorine dioxide can be relocated into or near proposed chemical feed building
d. Determine if existing chlorine dioxide generation unit should be relocated into proposed chemical feed building
e. Develop conceptual civil site work for grading and road/driveway to provide site access and grading for proposed building and tanks.
f. Determine and recommend locations to obtain survey and geotechnical borings for proposed building location
g. Develop conceptual plumbing requirements and design
h. Develop conceptual HVAC requirements and design, including high-rate ventilation system and chlorine scrubber
i. Perform code review for new structure and determination of any Fire protection requirements for the new structure.
j. Develop conceptual Electrical, Instrumentation, and Controls design:
    1. Connection of building to existing power system
    2. Connection of equipment to existing back-up generator
    3. Determination of instrumentation and controls as needed for the chlorine system
    4. Ambient monitors to measure chlorine within the storage and feed rooms
    5. Connection of system controls to existing SCADA system
    6. Determination of need for updates to chlorine residual analyzers out in the system after chlorine injection
k. Develop conceptual design of revised piping to existing or new chemical injection points.

BMcD will submit a draft concept design report to the Client for review and comment prior to initiation and completion of Task 4. BMCD will update the concept design based on any comments received.

Task 3: Complete Study Document

This task includes the documentation of efforts and findings into a complete study and Concept Design document for the Client.

Task 4: Preliminary Concept Design and Opinions of Probable Cost

This task includes the preliminary concept design and preliminary opinion of probable cost for the proposed chemical feed building. Based on the conceptual design, if needed, up to three (3) equipment and layout concepts may be developed and presented to the Client. The options will be provided in the concept design report and a qualitative options review matrix to allow for review and selection of the desired treatment alternative by the Client. An opinion of probable cost will be provided for the selected treatment concept. BMcD will develop the opinion of probable cost based upon recent equipment quotes and comparative projects. BMcD may obtain budgetary quotes from equipment suppliers to verify comparative costs of major process equipment. BMcD will establish sizing of the equipment and recent pricing for similar equipment will be utilized and scaled as appropriate. BMcD will evaluate historical data to understand the issues that could affect construction costs such as labor rates, productivities, and availability.

DELIVERABLES

Deliverables resulting from the scope of work detailed above in each task outlined in the scope are listed below.

1. Preliminary Concept Design
2. Final Concept Design
3. Preliminary Concept Design and Opinions of Probable Cost

The Scope of Services have been developed to assume one round of review, comment and revision prior to finalizing documents. Up to three (3) hard copies and electronic format of the final report will be provided in PDF format.

RESPONSIBILITIES OF CLIENT

1. Assist by placing at BMcD's disposal all available information pertinent to the assignment, including previous reports, drawings, and any other relevant data. BMcD will rely on information made available by Client as accurate without independent verification.
2. Provide CADD format and/or paper drawings for the existing site (as applicable).
3. Provide access to the site for BMcD.
4. Provide a project manager to act as liaison to Client's resources and to provide information needed to develop Project deliverables.
5. Support project approval process, if required.

CLARIFICATIONS & EXCLUSIONS

Clarifications and exclusions include but are not limited to the following:

1. Any task not outlined above in the Scope of Work is not included in this Scope of Work. If required, BMcD will submit a separate scope and fee to cover the additional cost.
2. Scope of Service is for Conceptual Design only.
3. Any design, survey, bidding, procurement, etc. are not included.

We appreciate the opportunity to present this proposal to you and look forward to working with the you and the team!

Sincerely,

Andrew Slotterback, P.E.
Project Manager