

Approve engineer for lift station

**VILLAGE OF WATERLOO  
RESOLUTION NO. 03-13-23-08**

**WHEREAS**, it has been brought to the attention of the Village of Waterloo Board of Trustees of repairs needed to the lift station at the wastewater treatment facility (WWTF); and

**WHEREAS**, a request for qualifications was published December 15, 2022; and

**WHEREAS**, Miller and Associates and JEO Consulting have submitted their qualifications for the project.

**NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE VILLAGE OF WATERLOO, NEBRASKA, AS FOLLOWS:**

**THAT** based on the qualifications attached hereto as Exhibit "A", JEO Consulting, is appointed as the project engineer for the WWTF Lift Station repairs.

**PASSED THIS** 13 **DAY OF** March, 2023

ATTEST:

Melissa Smith

Melissa Smith  
Clerk



Village of Waterloo

Travis Harlow

Travis Harlow  
Chairperson



Response to Request for Qualifications for

# Pump Station Improvements

ENGINEERING SERVICES

Village of Waterloo, Nebraska

January 17, 2023

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JEO CONSULTING GROUP

JEO CONSULTING GROUP, INC.

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**Zach Schulz, PE**  
Project Manager

**o:** 402.392.9926

**m:** 402.452.8141

**e:** zschulz@jeo.com



January 17, 2023

Village of Waterloo  
509 S. Front Street, PO Box 127  
Waterloo, Nebraska 68069

**RE: Pump Station Improvements | Waterloo, Nebraska**

Dear Selection Committee Members:

**COLLABORATIVE, EFFECTIVE, AND FLEXIBLE.** You don't typically see these three terms accompany infrastructure improvement projects. With the selection of JEO Consulting Group, Inc. (JEO), you will have access to our expertise, "learn and teach" culture, and years of experience serving municipal clients. We will handle the details and processes and, in turn, provide you with an experience that is collaborative, effective, and flexible. Our commitment is to prioritize your needs and listen carefully to your concerns, resulting in a successful project. Key components of our qualifications include:

- **INSTITUTIONAL KNOWLEDGE.** Our proposed project team is currently working on a water and wastewater capacity evaluation for Waterloo. The results of this evaluation will provide information necessary to identify and develop alternatives that meet your needs now and in the future. Our understanding of your development demands means that we will be able to deliver a project that supports the continued growth of Waterloo.
- **LOCAL WASTEWATER EXPERTISE.** Our team of 45 water/wastewater engineers and technicians will provide responsive services to Waterloo. Our team has the local presence and technical skills necessary to handle your wastewater system needs. Our understanding of the available lift station rehabilitation methods and experience evaluating and applying these methods means the selected approach will minimize costs to your community while effectively meeting your needs.
- **COMMUNICATION.** At JEO, we believe in honest, proactive, and frequent communication with our clients. Communication is key to ensuring all parties involved are informed of issues that arise, which allows for timely collaboration to address them.

We know you have many options when it comes to engineering services. We are confident that how we conduct our business sets us apart. We encourage you to review our qualifications, speak with our references, and ask us any questions you may have. Please feel free to contact me if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Zach Schulz', is written over the typed name.

ZACH SCHULZ, PE

**Project Manager**

JEO Consulting Group, Inc.



# ABOUT JEO'S **WATER INFRASTRUCTURE EXPERIENCE**

Water infrastructure sustains your community. That's why we specialize in all aspects of drinking water and wastewater. From conveyance to treatment and storage, our projects keep your community thriving.

## Our Services

### Drinking Water

#### Supply

- Wells
- Well Rehabilitation
- Surface Water Intake
- Rural Water Connections

#### Treatment

- Water Treatment Facilities
- Chemical Feed Systems

#### Distribution

- Transmission Mains
- Distribution Mains
- Service Mains/Lines
- Water Meters

#### Storage and Pumping

- Below Grade Storage
- Ground Level Storage
- Elevated Water Storage
- Water Booster Stations

#### Stormwater Pumping

- Screening
- Pump Stations

### Wastewater

#### Collection

- Collection Mains
- Trunk/Interceptor Sewers
- Extensions
- Rehabilitation

#### Pumping

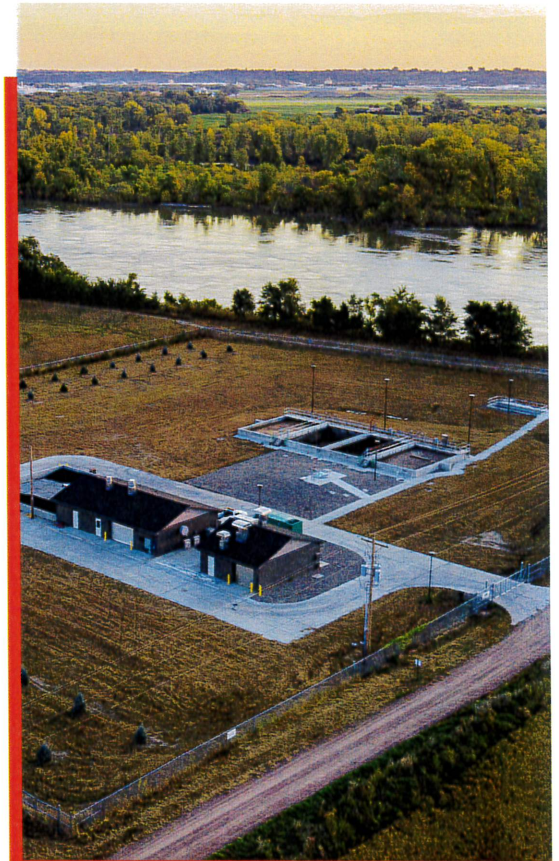
- Irrigation Systems
- Lift Stations

#### Treatment

- Lagoons
- Mechanical Treatment Facilities
- Onsite Systems

### Additional JEO Services

- Funding
- Electrical
- Architecture
- Surveying
- Transportation
- Water Resources
- Community Engagement



## Why JEO?



### Collaborative Development

We take pride in our collaborative and educational project development process — making you feel confident in your decisions, every step of the way.



### Adaptive Design

Every project requires a unique solution. We pair our flexible project process with cutting-edge industry technology to best meet your needs.



### Funding Support

Our in-house funding experts help you locate and acquire the resources necessary to make your project a reality.



### Regulatory Agency Understanding

We know what successful water infrastructure projects require. With a high level of understanding funding agency and regulatory expectations, we ensure your project checks all the boxes.

## FAMILIARITY WITH **FUNDING**



***Funding is critically important to turning ideas into reality. Quality projects are often delayed, or even canceled, due to the lack of funding. An awareness of available funding options is a critical first step in addressing a project's funding needs.***

JEO has met the funding challenge for its clients with a full-time funding specialist on staff. Terry Meier's primary responsibility at JEO is to help our clients identify and access the funding resources needed for their projects. As access to outside funding resources becomes more and more competitive, the client must have a proven guide to help maneuver the available funding resources, coordinate these resources to cost-share the project, and develop an application that is eligible and competitive. Once JEO prepares a funding strategy for the project, the client can ensure constituents that available funding alternatives have been explored and the most viable options pursued. This approach will put the client in the most competitive position to secure funding resources.

Terry has successfully written applications that have led to nearly \$650 million in community betterment initiatives. We can state with confidence that we understand the timeliness of the funding programs, including grant preparation, environmental review, procurement procedures, contracting requirements, bid letting, federal labor laws, financial management, reporting requirements, important milestones, and project closeout.



**Terry Meier**  
*Funding Specialist*

With 36 years of professional experience, Terry is well-versed in all phases of project development. He has an abundance of knowledge in obtaining federal, state, regional, local, and private grants for projects.



# LIFT STATION EXPERIENCE MATRIX

JEO’s water infrastructure professionals include 45 dedicated engineers and design technicians with broad expertise in helping municipal clients address their wastewater treatment and lift station needs. Our staff is routinely involved with evaluating the condition and capacity of existing lift stations and identifying solutions that are cost-effective, while balancing critical factors like ease of access/maintenance, future growth projections, and constructability. We are flexible and adaptable in providing study and design phase services that fit the specific criteria of each municipality.

**The best record of performance comes from satisfied clients.** Each of the projects listed below has had extensive involvement by one or more of the professionals who will work on your project. We encourage you to review the successful fulfillment of the requirements of the projects below and contact our references to further strengthen your decision to entrust JEO with your project.



## RELEVANT RECENT PROJECT EXPERIENCE

	SIMILAR COMPONENTS									FUNDING SOURCE
	Topographic Survey	Lift Station	Sanitary Sewer	Manholes	Wetwell with Grinder/Screen	Submersible Pumps	Generator	Controls and Electrical	Construction Observation	
Albion, Nebraska	■	■	■	■	■	■	■	■	■	SRF
Alexandria, Nebraska	■	■	■	■		■			■	USDA
Ashland, Nebraska - Whitetail Estates Lift Station and Sanitary Sewer	■	■	■	■		■		■	■	Local Funds
Chambers, Nebraska	■	■	■	■			■		■	CDBG and USDA
Jansen, Nebraska	■	■	■						■	CDBG and SRF
Laurel, Nebraska	■	■	■	■	■	■	■		■	SRF
Lindsay, Nebraska	■	■	■	■		■	■	■	■	SRF
Louisville, Nebraska - Platte River State Park Lift Station and Forcemain	■	■	■	■		■	■	■	■	Local Funds
Nebraska City, Nebraska	■	■	■	■	■		■		■	Local Funds
Oakland, Nebraska	■	■	■	■	■	■	■		■	SRF
Omaha, Nebraska (various projects)	■	■	■	■	■	■	■	■		Local Funds
Ord, Nebraska	■	■	■	■		■				Local Funds
Schuyler, Nebraska (various projects)	■	■	■	■	■	■	■	■	■	Local Funds
Wayne, Nebraska	■	■	■	■	■	■	■	■	■	SRF
Yutan, Nebraska	■	■			■	■	■	■	■	SRF

## PROJECT EXPERIENCE AND REFERENCES

### Citywide Lift Station Rehabilitations

📍 Omaha, Nebraska

**Reference** Jake Hansen, Civil Engineer III | p. 402.505.0983

Since 2012, JEO has worked with the City of Omaha to rehabilitate multiple lift stations located throughout the city. As of 2022, JEO has completed the design and construction for upgrades to 13 different lift stations. Improvements ranged from complete replacement, new pumps to increase capacity, new electrical controls and SCADA installation, installation of VFDs, and installation of backup power or transfer switches. The recently upgraded lift stations operate within acceptable design standards and regulations. The electrical systems were modified at Bay Shores Lift Station and Standing Bear Lift Station to accommodate an additional pump. Also, the pump controls were changed from across-the-line starters to VFDs. At the Ridges Lift Station, the system was modified from two to four pumps, all on VFDs. Each lift station required a new control system and reporting to the city SCADA system.



### Lift Station Improvements

📍 Yutan, Nebraska

**Reference**

CJ Heaton, City Administrator  
p. 402.625.2112

JEO completed a study evaluating the city's major water and wastewater infrastructure capacity. The engineering report addressed the continued development pressure the city is facing and the concern regarding system capacities. The engineering report identified the need to upgrade the city's main lift station to accommodate significant growth projections and upgrade equipment to meet current codes and standards. JEO was retained to complete the design, bidding, and construction phase services to increase the capacity of the lift station by installing two dry pit submersible pumps, each handling 650-gpm. In addition to the pump replacements, the project includes complete replacement of the electrical and control systems, VFDs installation, backup power and automatic transfer switches, pipe and valve replacements, and structural modifications to meet electrical code and improve operations, maintenance, and safety. The project is partially funded by CWSRF and JEO is assisting to ensure compliance with funding agency requirements.

### 3<sup>rd</sup> Street Lift Station Improvements

📍 Nebraska City, Nebraska

**Reference**

Jeff Kohrs, General Manager  
p. 402.873.3353

Nebraska City identified the 3<sup>rd</sup> Street Lift Station for improvements due to increased maintenance required in prior years. There were also questions as to whether the lift station was sized appropriately for the current flow conditions. A review of the 3<sup>rd</sup> Street lift station found that while the mechanical equipment was near the end of its useful life, the sizing of the wetwell and factory-built pump station was appropriate. As a result, it was determined that a rehabilitation project was the best path forward. The existing lift station was gutted, and new equipment was installed, including a factory-built pump station with two horizontal vacuum priming pumps, each with a pumping capacity of 150-gpm, and wetwell piping. JEO also designed 500 feet of 4-inch HDPE forcemain to replace the existing forcemain, which had been unreliable in previous years. A backup generator was installed as part of a subsequent project.



KEY PERSONNEL **RESUMES**

## Samantha Handrock, PE

### Lead Project Engineer

 South Sioux City, Nebraska

**Industry Tenure:** 4 Years

**JEO Tenure:** 4 Months



Samantha is a project engineer in JEO's Water Infrastructure Group. She has experience in the study, design, and construction of municipal utilities, including water and wastewater treatment facilities, water supply wells, water transmission and distribution mains, pump stations, lift stations, and sanitary sewer collection systems.

#### EDUCATION:

B.S., Civil Engineering  
*Iowa State University*

#### REGISTRATION:

Professional Engineer  
*Iowa*

#### PROJECT EXPERIENCE:

- Water and Wastewater Capacity Study, Waterloo, NE
- Wastewater Facility Plan, Dedham, IA
- Wastewater Treatment Facility Upgrades, Treynor, IA
- Wastewater Treatment Facility Rehabilitation, Winnebago, NE\*

*\*Project completed prior to joining JEO.*



## Tim Adams, PE

### Department Leader

 Lincoln, Nebraska

**Industry Tenure:** 14 Years

**JEO Tenure:** 14 Years



Tim has a wide range of experience in the study, design, and construction of municipal utilities including wastewater treatment facilities, lift stations, sanitary sewer, and collection systems. In his current role as department leader, Tim utilizes his experience to effectively manage a number of JEO projects, while focusing on meeting client needs and deadlines. Tim ensures all lines of communication are utilized with open and honest dialogue.

#### EDUCATION:

M.S., Environmental  
Engineering  
*University of Nebraska*

B.S., Civil Engineering  
*University of Nebraska*

#### REGISTRATION:

Professional Engineer  
*Nebraska, Iowa*

#### PROJECT EXPERIENCE:

- Bay Shores Emergency Forcemain Replacement, Omaha, NE
- 3<sup>rd</sup> Street and 9<sup>th</sup> Street Lift Station Improvements and Forcemain Replacement, Nebraska City, NE
- Whitetail Estates Lift Station and Sanitary Sewer, Ashland, NE
- Wastewater Treatment Facility Pump Replacements, Waverly, NE



KEY PERSONNEL **RESUMES****Zach Trede, PE****Electrical and Controls Engineer**

Omaha, Nebraska

**Industry Tenure:** 11 Years

**JEO Tenure:** 11 Years



Zach is an electrical project engineer with experience on a variety of projects from pump station design to city-wide medium voltage distribution system upgrades. Zach is involved in all phases of projects, from preliminary study and analysis to design and construction. Zach is also experienced and knowledgeable with power system studies including load flow, load allocation, short-circuit, protective device coordination, and arc flash analysis.

**PROJECT EXPERIENCE:**

- Lift Station Improvements, Yutan, NE
- Citywide Lift Station Upgrades, Omaha, NE
- West Ridge Road Lift Station Design, Sergeant Bluff, IA
- Southwest Pumping Station Generator Improvements, Council Bluffs, IA
- 6<sup>th</sup> Avenue and Southwest Pumping Station Control Upgrades, Council Bluffs, IA

**EDUCATION:**

M.S., Architectural Engineering (Electrical Power Emphasis)  
*University of Nebraska*

B.S., Architectural Engineering (Electrical Power Emphasis)  
*University of Nebraska*

**REGISTRATION:**

Professional Engineer  
*Iowa, Nebraska, Minnesota*

**Trevor Breeling, EI****Construction Observation**

Omaha, Nebraska

**Industry Tenure:** 4 Years

**JEO Tenure:** 4 Years



Trevor is an engineer in the Water Infrastructure Group at JEO. He has participated in various water and wastewater projects during his time with JEO, including being involved as a construction inspector on numerous projects. His coordination with contractors and clients is an essential piece of proper project completion and communication between both parties.

**PROJECT EXPERIENCE:**

- Lift Station Improvements, Yutan, NE
- Bay Shores Lift Station Emergency Repair, Omaha, NE
- Standing Bear Lift Station Upgrades, Omaha, NE
- Tri-Center Schools Lift Station, Neola, IA
- Southwest Pumping Station Construction Services, Council Bluffs, IA
- Wastewater Treatment Repairs, Peru, NE

**EDUCATION:**

B.S., Civil Engineering  
*University of Nebraska*

**REGISTRATION:**

Engineer In Training  
*Nebraska*