VILLAGE OF COAL VALLEY
AGENDA
REGULAR BOARD MEETING
WEDNESDAY, NOVEMER 20, 2019
6:00 P.M.

1. **Call to Order – Village President Michael Bartels**

2. **Roll Call/Establishment of Quorum**

3. **Pledge of Allegiance**

4. **Reading and Approval of the minutes from the Regular Board Meeting held on November 6, 2019.**

5. **Public Presentation/Recognition and/or Public Comments.**

6. **Reports from the President and other Officers (on matters not otherwise appearing on the Agenda)**
   - **A. President**
   - **B. Trustees**
   - **C. Police, Public Works & Admin**

***** NOTE: In each of the following items the board may VOTE to approve, deny or table*****

7. **Old Business**
   - **A. Cannabis Presentation from Higher Yields Consulting, Tom and Cory.**
   - **B. Recommendation from Planning and Zoning to Rezone Properties Along 1st Street from R-1 to B-1.**
   - **C. Discussion and 1st Reading of Ordinance to Rezone Properties Along 1st Street from R-1 to B-1.**

8. **New Business**
   - **A. Discussion and Award of Engineering qualifications packet detailing the firm(s) ability to prepare plans and specifications for bidding purposes to tie into a 12-inch diameter water main starting at 12020 Niabi Zoo Road to new properly sized elevated water tower. The proposed water main extension will provide capability to connect Niabi Zoo to Coal Valley water, along with future developments and/or annexations.**
   - **B. 1st Reading AN ORDINANCE AMENDING THE MUNICIPAL CODE**
   - **C. OF THE VILLAGE OF COAL VALLEY BY THE ADDITION OF DIVISION V-OPERATIONS, TITLE III-BUSINESS REGULATIONS, CHAPTER 10 PROHIBITING CANNABIS BUSINESS ESTABLISHMENTS.**
   - **D. Consideration and Approval of Bid to Order Public Works Water/Plow Gas Powered Truck (2020 Budget Item).**
   - **E. Approval of Replat Lots 13, 14, 15 and 16 of Oak Knoll South Twin Estates, Phase II. Bealer Builders.**
   - **F. Discussion on the Annual Tax Levy.**
   - **G. Approval of the Finance Director's Report.**
   - **H. Approval of the General Liability and Workers Compensation Insurance through Arthur J. Gallagher & Company.**
   - **I. Approval of Bills.**

9. **Adjournment**

VILLAGE OF COAL VALLEY
MINUTES OF THE REGULAR VILLAGE BOARD MEETING
WEDNESDAY, NOVEMBER 6, 2019 AT 6:00 P.M.
IN THE BOARD CHAMBERS OF VILLAGE HALL
COAL VALLEY, ILLINOIS

1. Call to Order:

The regular meeting of the Village Board was called to order at 6:00 P.M. by Mayor Bartels.

2. Roll Call.

Present: Mike Bartels, Caleb Argo, Dale Keppy, Stan Engstrom, Kevin Stickell, Jake Hoyt and Laura Rigg.
Absent:
Establishment of a quorum.

3. Pledge of Allegiance.

Mayor Bartels asked the Bicentennial Eagle Builders to lead the Board meeting with the Pledge of Allegiance and they did a great job of it.

Staff present at the meeting: Annette Ernst-Village Administrator, Deanna Hulliger-Village Clerk and Jack Chick-Police Chief.

Reading and Approval of Minutes.

Trustee Hoyt mentioned that on page 2, item C it lists Trustee Hoyt as voting on the motion and he was not at the meeting. The name should be Rigg not Hoyt. The Clerk will make the correction.

Trustee Rigg made a motion to approve the minutes of the Regular Board Meeting held October 16, 2019 as corrected. Trustee Argo gave a second to the motion. Ayes 6, motion carried.

4. Public Presentation/ Recognition and/or Public Comments

Bicentennial Eagle Builders, Lego Robotics Team Presentation.

Mayor Bartels welcomed the Eagle Builders, Lego Robotics Team and asked them to give their presentation.

Various members of the Robotics Team spoke about the need for a band shell at the Municipal Park and the ways to have fundraisers to acquire funds towards the project. The Eagle Builders brought with them a 3-D proto-type of a band shell. The team also mentioned various activities that can be held in a band shell. The Eagle Builder received a round of applause once their presentation ended. The Team will keep the Board updated on this project.

Mark Wilken resides at 607 W 3rd St., Coal Valley and is employed at Elliott Aviation. Mr. Wilken is here this evening to talk about a current Illinois Legislation Bill HB#3902. The purpose of the bill is to retroact and extend Sales Tax Exemption on aircraft parts sold during maintenance and overhaul. Mr. Wilken reviewed the handout he has given the Board on this HB#3902. After explaining the effects, it will have on Elliott Aviation and the local community if this bill does not pass, Mr. Wilken explained what is being asked of the Coal Valley Village Board. Elliott Aviation and its employees would like the Village support of HB#3902 and ask the Village of Coal Valley to contact Illinois State Senators prior to their vote on 11/12/19. Senator Crowe is Chief Sponsor along with Senator Anderson as Co-Sponsor. The Village Board is in total support of HB#3902. Ms. Ernst informed everyone that she will be at an event with Senator Anderson and Representative McCombie this Friday November 8th and would be glad to draft a letter of support for the Village of Coal Valley and present it to Senator Anderson on Friday. Mr. Wilken thanked the Board for their help with this important issue.

5. Reports from the President and Other Officers (on matters not otherwise appearing on the Agenda).

   A. President-Mayor Bartels announced that Christmas in the Village/Tree Lighting is scheduled for Saturday, November 30th at 5:00 P.M. Decorating and set up is the Saturday prior on November 23rd.

   B. Trustees-Trustee's had nothing to report.

   C. Police, Public Works & Administration- Chief Chick reported there were no incidents on Trick or Treat night. The weather was bad so not much activity in the Village.

      The Chief informed the Board that the Police Department is having no shave November again this year. The Shave-Off will be at the end of the month.

      It seems that Bettendorf is being targeted with car burglaries. Just a reminder to the Village residents to keep your garage doors down and locked. The Chief has directed the officers to approach homes that have garage doors open at night and ask the resident to please close them and keep the everything locked up.

      Ms. Ernst has received the ISO insurance rating and the Village received a rating of a 5, which is a good rating. We will work on projects that might bring the rating down to a 4 and help to lower home owners fire insurance premiums.

      Ms. Ernst is happy to report that Jamie Just passed his training and is a certified Stormwater Inspector. Jamie is in charge of the MS4 program so with this certification it gives a bit more credibility when Jamie goes out and talks to residents about this program.

      Ms. Ernst has posted the Police Chief position and applications will be taken until November 15th.

      Ms. Ernst has reached out to the Higher Yields Consulting Company as requested by a Board member and has not heard back from them. It is important to hear a presentation of the positive factors of the new Illinois Cannabis laws being implemented January 1, 2020 to give both sides the opportunity to educate the public on this matter. Ms. Ernst hopes to have them on the agenda for the next Board meeting of November 20th.

Ms. Ernst relayed to the Board that Mid-American Energy was working along 1st Street by the Village Hall earlier today on gas main repairs. They had some troubles locating some pipe so they will probably be back in the area tomorrow.

If anyone has any questions on the Administrator monthly report or any other matters just let Ms. Ernst know.

6. Unfinished Business

A. 2nd Reading/approval of the2020 Budget and Budget Resolution.

Discussion was held.

Trustee Engstrom made a motion to approve the 2020 Budget and Budget Resolution. A second to the motion was given by Trustee Hoyt. Roll Call: Ayes-Argo, Keppy, Engstrom, Stickell, Hoyt, Rigg. Ayes 6, motion carried.

B. 2nd Reading/approval of "AN ORDINANCE AMENDING TITLE IX-STREETS, PUBLIC WAYS AND PUBLIC PROPERTY: DIVISION II-WATER/SEWER/PERMITS/CONNECTIONS/RATES; CHAPTER 1 WATERWORKS AND SEWERAGE SYSTEMS: RATES; SECTION 1 RATES, FEES AND CHARGES"

Trustee Stickell made a motion to approve "AN ORDINANCE AMENDING TITLE IX-STREETS, PUBLIC WAYS AND PUBLIC PROPERTY: DIVISION II-WATER/SEWER/PERMITS/CONNECTIONS/RATES; CHAPTER 1 WATERWORKS AND SEWERAGE SYSTEMS: RATES; SECTION 1 RATES, FEES AND CHARGES". A second to the motion was given by Trustee Rigg. Roll Call: Ayes-Argo, Keppy, Engstrom, Stickell, Hoyt. Rigg. Ayes 6, motion carried.

C. Continued discussion on creation of a Tax Increment Financing District (TIFII) downtown-US 150 area.

Ms. Ernst reviewed the proposed TIF II information. Discussion was held.

The Board would like to focus on the TIF I area for now. At a future meeting Ms. Ernst would like to talk with the Board on what their goals are with the TIF I area. Further discussion took place.

7. New Business

A. Marijuana Presentation-Deborah Tomey, Wilmington Coalition for a Healthy Community.

Mayor Bartels introduced Deborah Tomey who is a Coal Valley resident and is on the agenda tonight, to present the down falls of the marijuana legalization in Illinois. Ms. Tomey gave a brief background of herself then began a power point presentation on the various items effected by the legalization of marijuana in Illinois. Questions and answers were given throughout the presentation. The Mayor and Board thanked Ms. Tomey for coming this evening.

B. Recommendation from Planning and Zoning to rezone properties along 1st Street from R-1 to B-1.

Ms. Ernst reviewed the Planning and Zoning recommendation from their October 23, 2019 meeting. One main reason for the change in zoning is for the businesses to have lighted/ scrolling signs on their property. Discussion was held.

C. 1st Reading of "AN ORDINANCE CHANGING THE ZONING AND AMENDING THE ZONING MAP OF THE VILLAGE OF COAL VALLEY, COAL VALLEY, ILLINOIS.

After discussion the Board would like to see what restrictions and hours of operation will be given for the lighted/scrolling signs. These items to be brought back with the proposed ordinance. This will be considered the 1st Reading.

D. Discussion and decision on status of Water Operator position.

Ms. Ernst mentioned the Village has been without a water operator for 3 years now. The job is listed "open until filled". There have been two applicants recently with one not being qualified and the other talking of more money and no extra duties other than water/sewer work. Discussion took place. Ms. Ernst also reminded the Board that with the Niabi Zoo extension project coming up in the future the Village needs to have a qualified employee to work on this project with the contractors for a few years. The Board asked the Administrator to re-publish the ad and offer more money for a qualified individual.

E. Consideration and award of bid for Valve Replacements on E. 6th St., E. 7th St., E. 19th Ave. and E. 22nd Ave.

Ms. Ernst reviewed the recommendation for the Valve Replacements with the Board. The Village has done work with all three companies. The Administrator is recommending the lowest bidder McClintock Trucking & Excavating in the amount of $33,170.00.

A motion was made by Trustee Stickell to approve the bid from McClintock Trucking and Excavating in the amount of $33,170.00 for the Valve Replacements at E. 6th St., E. 7th St., E. 19th Ave. and E 22nd Ave. A second to the motion was given by Trustee Hoyt. Roll Call: Ayes-Argo, Keppy, Engstrom, Stickell, Hoyt and Rigg. Ayes 6, motion carried.

F. Consideration and award of bid for Generators at 680 E. 19th Ave. Lift Station and Well #2 at 107 W. 18th Ave.

Ms. Ernst reviewed the recommendation for the Generators with the Board. Discussion was held. One job address is corrected to read 680 W. 19th Ave. Lift Station. Further discussion took place. Ms. Ernst recommends Tri-City Electric as the lowest bidder of $68,298.00.

A motion was made by Trustee Rigg to approve the bid from Tri-City Electric in the amount of $68,298.00 for Generators at 680 W. 19th Ave. Lift Station and Well #2 at 107 W. 18th Ave. Trustee Engstrom offered a second to the motion. Roll Call: Ayes-Argo, Keppy, Engstrom, Stickell, Hoyt, Rigg. Ayes 6, motion carried.

G. Consideration and approval of bid to order Public Works water/plow truck (2020 budget item).

Ms. Ernst reported that the current truck that would be replaced by the new truck has major engine issues and would cost about $12,000.00 to repair. We would like to get this new truck ordered and it would not be processed and here until 2020. The Board discussed the new truck. Trustee Argo stated the Village could save $10,000.00 by going with a gas powered truck instead of the diesel. The Board discussed the differences between gas/diesel. The Board decided to go out for bids on a gas-powered truck.

H. Approval to sell the 2010 F-350 Ford Public Works truck.

Discussion was held. Of course, make sure to disclose items not working on the truck.

A motion was made by Trustee Engstrom to approve the sale of the 2010 F-350 Ford Public Works truck. A second to the motion was given by Trustee Stickell. Roll Call: Ayes-Argo, Keppy, Engstrom, Stickell, Hoyt, Rigg. Ayes 6, motion carried.

I. Appointment of Brent Ganahl to the Coal Valley Planning and Zoning Board.

Mayor Bartels introduced Brent, Stephanie and Sydney Ganahl. Mr. Ganahl has offered to be a member of the Coal Valley Planning and Zoning Board.

Trustee Stickell made a motion to appoint Brent Ganahl to the Coal Valley Planning and Zoning Board. Trustee Hoyt gave a second to the motion. Ayes 6, motion carried.

J. Approval of the bills presented for payment.

The Board reviewed the bill summary report.

A motion was made by Trustee Engstrom to approve the bills presented for payment. Trustee Rigg offered a second to the motion. Roll Call: Ayes-Argo, Keppy, Engstrom, Stickell, Hoyt, Rigg. Ayes 6, motion carried.

K. Adjournment

A motion was made by Trustee Hoyt to adjourn tonight's board meeting. A second was given by Trustee Argo. Ayes 6, motion carried. The meeting adjourned at 7:40 p.m.

Respectfully submitted,

Deanna Hulliger
Village Clerk

Incorporated 1876
"A Progressive Community with a proud past"

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Michael Bartels
Village President

November 15, 2019

TO: VILLAGE PRESIDENT AND BOARD OF TRUSTEES

RE: RECOMMENDATION OF PLANNING COMMISSION TO REZONE PROPERTIES ALONG 1ST STREET FROM R-1 TO B-1 (see attached list)

Overview:

The Planning and Zoning Board met on Wednesday, October 23, 2019 to discuss the rezone of the attached properties along 1st Street within the Village of Coal Valley.

Currently, all the property that is brought into the Village is zoned R-1 and the rezone to B-1 would allow these entities to operate under a more appropriate zoning. Please see attached excerpt (highlighted in yellow) from our zoning ordinance, ***ARTICLE XVI Additional Requirements, Exceptions and Modifications*** that was used to make the decision.

So, it is our recommendation to the Village Board to accept the revised rezoning.

Best regards,

Rick Mathias/all

Rick Mathias, Chairman
Village of Coal Valley
Planning & Zoning

cc: Annette Ernst, Village Administrator
File

SIGNS

6.001 GENERAL PROVISIONS.

A. No sign shall be erected or maintained at any location where by reason of its position, wording, illumination, size, shape or color it may impair, obstruct, obscure or be confused with any authorized traffic control sign, signal or device and shall not be located in the traffic visibility area at corner lots, as herein provided.

B. No on building, on-site or off-site sign or billboard having flashing, scrolling, or animated illumination shall be permitted within any zoned district of the Village, except as provided in Section 6.005 Message Sign. Time and temperature signs are exempt.

C. No sign or advertising device shall be erected or placed within one hundred (100) feet of any "R" District.

D. A banner is any sign of any fabric, plastic or similar material that is mounted to a pole or poles or to a building by one or more edges of the fabric. A banner, not to exceed twenty (20) square feet is allowed in a "B" district, if adjacent to any "R" district, otherwise a banner not to exceed thirty two (32) square feet is allowed in a "B" or "I" district. Banners are permitted in a commercial or industrial district, with no more than one (1) banner per building street frontage, at a business location. All banners must be at least ten (10) feet from a property line adjacent to any "R" district.

E. The flag of the United States, the State of Illinois, foreign nations having diplomatic relations with the United States, and any other flag adopted or sanctioned by an elected legislative body of competent jurisdiction are permitted provided that such a flag shall not exceed sixty (60) square feet in area and shall be flown from a pole, the top of which is not more than five (5) feet higher than the building height of the zoning district in which it is located. Any allowable flag shall be separated from any other allowable flag by at least fifty (50) feet horizontally, unless on the same pole, in which case only two (2) flags are allowed per pole. Any flag not included above shall be considered a sign and shall be subject to regulation as such.

F. Temporary signs are signs that are used only for a limited time period and are designed to be affixed, mounted or installed to a wall, pole or other mounting or support structure for purposes of non-permanent display.

1. Non-electric temporary signs placed on the ground, or in windows of buildings with commercial or industrial uses which advertise sales, specials, or closeouts shall be restricted to illumination by normal lighting of the building or street lighting. Such signs shall be removed upon termination of the sale, special, or closeout or for a period not to exceed thirty (30) days, whichever time is occurs first.

2. Temporary signs prior to the election pertaining to the candidacy of federal, state and local elected officials or other voting issues, shall be allowed only in compliance with Illinois state laws. Said signs shall be removed, as provided by law, after the election.

3. Temporary signs shall be located on private property. No part of a sign shall be located on the public right-of-way and in the required traffic visibility area, herein provided.

G. Permits required. It shall be unlawful for any person to erect, structurally alter, or relocate within the Village any permanent sign, temporary sign, or banner, except as identified herein, without first obtaining any required permit and payment of permit fees required here under.

1. Duration. If the work authorized under an erection permit has not been completed within twelve (12) months after date of issuance, said permit shall become null and void, and a new permit will be required.

2. Permit and fees for Banners. A permit and an associated fee of twenty dollars ($20.00) will be required for the thirty (30) day placement of any banner within the Village limits of Coal Valley. Permits for banners will be allowed per business establishment during a one-year period (1 May – 30 April).

3. The following signs are exempt from the requirements to obtain a permit before installation:

   a. Signs used by any Federal, State and/or Local government authority.

   b. Non-illuminated projecting signs two and a half (2.5) square feet or less, located at least eight (8) feet above grade.

   c. Temporary signs or banners erected to "welcome home" an individual(s), recognize an individual's birthday, or anniversary and are in place no longer than seven (7) days.

   d. Temporary signs for garage sales and reunions and are in place no longer than seven (7) days.

   e. Temporary signs, used for Federal, State and Local Elections.

I. BUSINESS CLOSING. Any type of sign and/or sign face shall be removed within ten (10) days of the closing of said business or operations for the applicable sign(s), except the address of the property shall remain.

6.002 RESIDENCE DISTRICTS. In any Residence District the following regulations shall apply:

A. For one-family and two-family dwellings, an identification sign not exceeding two (2) square feet in area shall be permitted for each dwelling unit. Such sign shall indicate nothing other than the name of the occupants and/or address of the premises.

B. For multiple-family and group dwellings, an identification sign not exceeding nine (9) square feet in area shall be permitted. Such sign may have indirect lighting and may indicate name of the complex, owner, phone contact, occupants, address of the premises and/or vacancy status.

C. A non-illuminated sign to announce a subdivision development is permitted not exceed 32 square feet in size. Such signs shall be removed

when 80 percent of the lots of that subdivision are sold, the remaining lots can have individual lot signs pursuant to this ordinance.

D. Sandwich boards or identification signs shall be permitted to announce the activities of a church, school or other public building or use. These types of signs can be put up 3 weeks prior to the event but must be removed within 7 days of the completion of the event.

E. Banners, flags and pennants will be allowed in residential districts in conjunction with a demonstration of model homes in a new subdivision before the opening of such demonstration and after and not to exceed a total period of sixty (60) days in any calendar year. Such banners, flags and pennants shall be removed when 80 percent of the lots of that subdivision are sold, the remaining lots can have individual lot signs pursuant to this ordinance.

F. Real Estate signs, not to exceed five (5) square feet, for the sale or rental of a property in residential zoned areas of the Village are considered temporary and must be removed within 30 days once a property sale is closed or rented.

G. All other signs are prohibited in "R"' Districts.

6.003 OFFICE AND BUSINESS DISTRICTS. The following regulations shall apply with respect to Office and Business Districts:

A. In the "O-1" District and the "B-1" District, on-building signs shall be permitted, but shall not exceed one and one-half (1 1/2) square feet of surface area for each one (1) lineal foot of building face. Off-site signs such as billboards are prohibited. An on-site sign is permitted but will not exceed 36 sq. ft. in size per side excluding base or pole identifying/ advertising the business. Multiple businesses on the same property are required to have a "monument" sign for all businesses at that location. The monument sign shall not exceed sixteen (16) feet in height from the ground to the top of the sign and six (6) feet in width and sixteen (16) inches in depth.

B. In the "B-2" District, on buildings and on-site signs are permitted. Refer to Paragraph 6.003, Sub Section (a) for type and size limitations. Off-site signs are permitted in accordance with the standards set forth in Section 6.005, Sub Section (a), only by Special Use Permit issued in accordance with the provisions of Section 10 of Article XVIII Administration.

C. For Sale/Lease signs on real estate in areas zoned B-1, B-2 and O-1 are permitted and will not exceed 32 square feet in size. Such signs will be removed within 30 days of the closing on the sale/lease of the property.

6.004 INDUSTRIAL DISTRICT. The following regulation shall apply with respect to the Industrial District: On building and on-site signs are permitted, see paragraph 6.003. Sub Section (a) for size limitations. Off-site signs and advertising devices are permitted only by Special Use Permit issued in accordance with the provisions of Section 10 of Article XVIII Administration.

A. For Sale/Lease signs on real estate in areas zoned Light Industrial are permitted and will not exceed 32 square feet in size. Such signs will be removed within 30 days of the closing on the sale/lease of the property.

6.005 A MESSAGE SIGN is an intermittent changeable copy type sign that is permitted in a "B" or "I" district, provided:

A. Said sign contents may incorporate a change of graphics and/or wording, including possible scrolling, or animated illumination, and;

B. Said sign shall not have a bright white light(s) or bright white background lighting between the hours of sunset and sunrise, which may distract driver(s) or create a nuisance, and shall not contain any flashing light(s) component. It may contain exposed lamp or inert gas tubes or any combination thereof, provided that the exposed lamp does not exceed 11 watts or the inert gases tube does not exceed 60 milliamps. Where inside frosted lamps with a diffusing screen are used no lamp shall exceed 25 watts. Intensification of illumination by reflectorized lamps or by external reflectors is prohibited.

6.006 OFF-SITE SIGN AND ADVERTISING DEVICE STANDARDS. In addition to any conditions that may be imposed under Section 10 of Article XVIII Administration, off-site signs and advertising devices must comply with the following requirements and conditions:

A. Off-site signs and advertising devices shall not exceed 25 feet in height, from the ground level to the top of sign, and 300 square feet per face.

B. Off-site signs and advertising devices classified as billboards shall comply with the minimum yard requirements of the zoning district in which they are located. Setback requirements for other off-site signs and advertising devices shall be determined during the Special Use Permit process.

C. Along any highway designated by the State of Illinois as a freeway or interstate highway and along any street or highway designated a major arterial by the Village's Comprehensive Plan there shall be a minimum of 1,000 feet between off-site signs and advertising devices classified as billboards.

6.007 VARIANCES AND SPECIAL USE PERMITS. Any business or resident in the Village of Coal Valley can request a variance or Special Use Permit from this Ordinance, as provided.

Section 7. STREET NUMBERS.

Every new residential, commercial and industrial establishment built on any property in the Village subsequent to the date of the adoption of the Ordinance shall receive a street number assigned by the Zoning Officer in accordance with the current street numbering system of the Village. This number will be assigned at the time a Zoning Certificate and/or Building permit is issued and will be recorded thereon.

Section 8. ADULT REGULATED USES:

ORDINANCE NO. _____

AN ORDINANCE CHANGING THE ZONING AND AMENDING THE ZONING MAP OF THE VILLAGE OF COAL VALLEY, COAL VALLEY, ILLINOIS

BE IT ORDAINED BY THE VILLAGE BOARD OF THE VILLAGE OF COAL VALLEY, ILLINOIS:

SECTION 1. That the Zoning Map for the Village of Coal Valley, as maintained by the Village at Village Hall, is hereby changed as set forth below:

THE ZONING FOR THE FOLLOWING PROPERTIES IS CHANGED AS FOLLOWS:

Property Owner	Parcel	Current Zoning	New Zoning
First Presbyterian Church 2431 1st Street Coal Valley, IL 61240	CV-147	R-1	B-1
Coal Valley Fire District 103 W. 18th Avenue Coal Valley, IL 61240	CV-262-1	R-1	B-1
Coal Valley Fire District 111 W. 18th Avenue Coal Valley, IL 61240	CV-260	R-1	B-1
Village of Coal Valley (Well #2) 107 W. 18th Avenue Coal Valley, IL 61240	CV-261	R-1	B-1
AT&T 108 W. 18th Avenue Coal Valley, IL 61240	CV-1641	R-3	B-1
Trimble Funeral Home (Empty Lot) Lot 6, Wooded Highlands 1st Addition – Sheet 15 Coal Valley, IL 61240	CV-354	R-3	B-1
Trimble Funeral Home 1700 1st Street Coal Valley, IL 61240	CV-76-2	R-3	B-1

Property Owner	Parcel	Current Zoning	New Zoning
First Bible Missionary Church 1607 1st Street Coal Valley, IL 61240	CV-641-2	R-1	B-1
First Bible Missionary Church (Parsonage) 1611 1st Street Coal Valley, IL 61240	CV-641	R-1	B-1
MidAmerican Energy (power station) 1122 1st Street Coal Valley, IL 61240	CV-62-B	R-1	B-1
Village of Coal Valley (1st Street Park) 1000 1st Street Coal Valley, IL 61240	CV-62	R-1	B-1
Bicentennial Elementary School 1004 1st Street Coal Valley, IL 61240	CV-62-A	R-1	B-1
Village of Coal Valley (Village Hall) 900 1st Street Coal Valley, IL 61240	CV-20-3	R-1	B-1
New Hope Baptist 706 1st Street Coal Valley, IL 61240	CV-20-2	R-1	B-1

SECTION 2. This Ordinance is in accordance with Planning Commission and Zoning Board of Appeals recommendation as made by vote at the public hearing held on October 23, 2019.

SECTION 3. All ordinances or parts of ordinances in conflict herewith are expressly repealed insofar as they so conflict.

SECTION 4. That this ordinance shall be in full force and effect from its passage, approval and publication thereof, as provided by law.

ORDINANCE
MUNICIPAL CANNABIS BUSINESS PROHIBITION

ORDINANCE NO. _____

AN ORDINANCE AMENDING THE MUNICIPAL CODE OF THE VILLAGE OF COAL VALLEY BY THE ADDITION OF DIVISION V-OPERATIONS, TITLE III-BUSINESS REGULATIONS, CHAPTER 10 PROHIBITING CANNABIS BUSINESS ESTABLISHMENTS

WHEREAS, the Village has the authority to adopt ordinances and to promulgate rules and regulations [that pertain to its government and affairs and] that protect the public health, safety and welfare of its citizens; and

WHEREAS, this Ordinance is adopted pursuant to the provisions of the Illinois Cannabis Regulation and Tax Act, Public Act 101-0027, which provides that the Village has the authority to prohibit adult-use cannabis business establishments; and

WHEREAS, the Village has determined that the operation of cannabis business establishments would present adverse impacts upon the health, safety and welfare of the residents, and additional costs, burdens and impacts upon law enforcement and regulatory operations of the Village; and

NOW, THEREFORE, BE IT ORDAINED by the Village Board of the Village of Coal Valley as follows:

SECTION 1. Recitals. The facts and statements contained in the preamble to this Ordinance are found to be true and correct and are hereby adopted as part of this Ordinance.

SECTION 2. Cannabis Business Establishments Prohibited. Title III Business Regulations of the Municipal Code of the Village of Coal Valley shall be amended by the addition of Chapter10 that will read as follows:

CHAPTER 10. Cannabis Business Establishments Prohibited.

1. Definitions. The following words and phrases shall, for the purposes of this Article [Chapter], have the meanings respectively ascribed to them by this section, as follows:

ADULT-USE CANNABIS BUSINESS ESTABLISHMENT: A cultivation center, craft grower, processing organization, infuser organization, dispensing organization or transporting organization.

ADULT-USE CANNABIS CRAFT GROWER: A facility operated by an organization or business that is licensed by the Illinois Department of Agriculture to cultivate, dry, cure

and package cannabis and perform other necessary activities to make cannabis available for sale at a dispensing organization or use at a processing organization, per the Cannabis Regulation and Tax Act, (P.A.101-0027), as it may be amended from time-to-time, and regulations promulgated thereunder.

ADULT-USE CANNABIS CULTIVATION CENTER: A facility operated by an organization or business that is licensed by the Illinois Department of Agriculture to cultivate, process, transport and perform necessary activities to provide cannabis and cannabis-infused products to licensed cannabis business establishments, per the Cannabis Regulation and Tax Act, (P.A.101-0027), as it may be amended from time-to-time, and regulations promulgated thereunder.

ADULT-USE CANNABIS DISPENSING ORGANIZATION: A facility operated by an organization or business that is licensed by the Illinois Department of Financial and Professional Regulation to acquire cannabis from licensed cannabis business establishments for the purpose of selling or dispensing cannabis, cannabis-infused products, cannabis seeds, paraphernalia or related supplies to purchasers or to qualified registered medical cannabis patients and caregivers, per the Cannabis Regulation and Tax Act, (P.A.101-0027), as it may be amended from time-to-time, and regulations promulgated thereunder.

ADULT-USE CANNABIS INFUSER ORGANIZATION OR INFUSER: A facility operated by an organization or business that is licensed by the Illinois Department of Agriculture to directly incorporate cannabis or cannabis concentrate into a product formulation to produce a cannabis-infused product, per the Cannabis Regulation and Tax Act, (P.A.101-0027), as it may be amended from time-to-time, and regulations promulgated thereunder.

ADULT-USE CANNABIS PROCESSING ORGANIZATION OR PROCESSOR: A facility operated by an organization or business that is licensed by the Illinois Department of Agriculture to either extract constituent chemicals or compounds to produce cannabis concentrate or incorporate cannabis or cannabis concentrate into a product formulation to produce a cannabis product, per the Cannabis Regulation and Tax Act, (P.A.101-0027), as it may be amended from time-to-time, and regulations promulgated thereunder.

ADULT-USE CANNABIS TRANSPORTING ORGANIZATION OR TRANSPORTER: An organization or business that is licensed by the Illinois Department of Agriculture to transport cannabis on behalf of a cannabis business establishment or a community college licensed under the Community College Cannabis Vocational Training Pilot Program, per the Cannabis Regulation and Tax Act, (P.A.101-0027), as it may be amended from time-to-time, and regulations promulgated thereunder.

PERSON: Any person, firm, corporation, association, club, society or other organization, including any owner, manager, proprietor, employee, volunteer or agent.

2. Cannabis Business Establishments Prohibited. The following Adult-Use Cannabis Business Establishments are prohibited in the Village of Coal Valley. No person shall locate, operate, own, suffer, allow to be operated or aide, abet or assist in the operation within the Village of Coal Valley of any of the following:

Adult-Use Cannabis Craft Grower
Adult-Use Cannabis Cultivation Center
Adult-Use Cannabis Dispensing Organization
Adult-Use Cannabis Infuser Organization or Infuser
Adult-Use Cannabis Processing Organization or Processor
Adult-Use Cannabis Transporting Organization or Transporter

3. Public Nuisance Declared. Operation of any prohibited Cannabis Business Establishment within the Village in violation of the provisions of this Chapter is hereby declared a public nuisance and shall be abated pursuant to all available remedies.

4. Violations. Violations of this Chapter may be enforced in accordance with the provisions of Chapter 10 of this Code.

5. Severability. If any provision of this Ordinance, or the application of any provision of this Ordinance, is held unconstitutional or otherwise invalid, such occurrence shall not affect other provisions of this Ordinance, or their application, that can be given effect without the unconstitutional or invalid provision or its application. Each unconstitutional or invalid provision, or application of such provision, is severable, unless otherwise provided by this Ordinance.

6. Effective Date. This Ordinance shall be in full force and effect from and after its passage and approval and publication as required by law.

ADOPTED THIS _____ day of _____, 20__.
AYES:
NAYS:
ABSTENTIONS:
ABSENT:

APPROVED THIS _____ day of _____, 20 __.

_____
Village President

ATTEST:

_____
Village Clerk

Incorporated 1876
"A Progressive Community with a proud past"

Village of Coal Valley
900 1st Street
P.O. Box 105
Coal Valley, Illinois 61240
Phone 309-799-3604 Fax 309-799-3651
www.coalvalleyil.org

Michael Bartels
Village President

Memorandum
Village Administrator

To: **Mayor, Village Board**
Subject: **F350 Public Works Water Truck and Truck Box Bid**
Date: **November 15, 2019**

The invitation for the truck and truck box was received by the following:

Truck Bids
Lindquist Ford $38,041.00
Kunes Country Ford $$38,645.90
Courtesy Ford $38,154.00

Truck Box
Bonnell Industries $27,555.00
Knapheide Truck Equipment $29,635.00

Attached are the bids for both.

Recommendation

It is recommended that the Village award the bid for the truck to Lindquist Ford in the amount of $38,041.00 and the Truck Box to Bonnell in the amount of $27,555.00 and authorize the Village Administrator to execute the contract documents. Items were budgeted for year 2020. Board decision was to move forward with the purchase due to the fact the F350 2010 truck motor is bad and is too costly to fix. Project will be paid out of Capital Project that was not completed in 2019.

Vendor: **Lindquist Ford and Bonnell Industries**

Contract Amount: $65,596.00

Fund 31-00-846
Department Capital Equipment Replacement

Submitted by: Annette Ernst, Village Administrator

MS2 screen capture

CNGP530 VEHICLE ORDER CONFIRMATION 11/11/19 13:51:40
==>
Dealer: F4120(
2020 F-SERIES SD Page: 1 of 2
Order No: Z111 Priority: A1 Ord FIN: QC104 Order Type: 5B Price Level: 02(
Ord PEP: .633A Cust/Flt Name: VCV PO Number:

		RETAIL
X3F	F350 4X4 S/C CC .168" WHEELBASE	$44235
PQ	RACE RED	
2	CLTH 40/CNSL/40	945
S	MEDIUM EARTH GR	
633A	PREF EQUIP PKG .XLT TRIM	
54K	.TELE TT MIR-PWR .AMFM/MP3/CLK	
99N	7.3L DEC V8 ENG	1705
44G	10-SPD AUTOMATC	NC
TDU	LT275/70OWLAT18	290
X4M	4.30 ELOCKING	NC
166	CARPET DELETE	(50)
18B	PLAT RUNNING BD	445
	11300# GVWR PKG	
41P	SKID PLATES	100
425	50 STATE EMISS	NC
43B	BACKGLASS DEF	60
	JOB #1 BUILD	
59H	HI MNT STOP LMP	NC
61L	WHL WLL LNR FRT	180
67B	397 AMP ALTRNTR	115

TOTAL BASE AND OPTIONS 50175
TOTAL 50175
THIS IS NOT AN INVOICE

* MORE ORDER INFO NEXT PAGE *
F8=Next

MS2 screen capture

Page 1 of

CNGP530 VEHICLE ORDER CONFIRMATION 11/11/19 13:51:47
==>
Dealer: F4120(
2020 F-SERIES SD Page: 2 of 2
Order No: Z111 Priority: A1 Ord FIN: QC104 Order Type: 5B Price Level: 02(
Ord PEP: 633A Cust/Flt Name: VCV PO Number:

		RETAIL
76C	EX BACKUP ALARM	$140
86M	DUAL BATTERY	NC
872	RR CAM & PREP K	415
	SP DLR ACCT ADJ	
	SP FLT ACCT CR	
	FUEL CHARGE	
B4A	NET INV FLT OPT	NC
	DEST AND DELIV	1595

TOTAL BASE AND OPTIONS 50175
TOTAL 50175
THIS IS NOT AN INVOICE

$ 38,041

ZACH JOHNSON
Commercial Sales Professional

LINDQUIST FORD INC.
3950 Middle Road
Bettendorf, IA 52722
www.lindquistford.com
zachjohnson@lindquistford.com

Ph. (563) 449-7318
Cell. (319) 621-9529
Toll Free (800) 292-0044
Fax. (563) 449-7386

CNGP530 VIRTC1DP

==>

VEHICLE ORDER CONFIRMATION

11/08/19 11:35:44
Dealer: F41535
Page: 1 of 2

2020 F-SERIES SD

Order No: 9999 Priority: A1 Ord FIN: QG185 Order Type: 5B Price Level: 020
Ord PEP: 633A Cust/Flt Name: VILL COAL VAL PO Number:

		RETAIL	DLR INV
X3F	F350 4X4 S/C CC .168" WHEELBASE	$44235	$42024.00
PQ	RACE RED		
2	CLTH 40/CNSL/40	945	860.00
S	MEDIUM EARTH GR		
633A	PREF EQUIP PKG .XLT TRIM		
54K	.TELE TT MIR-PWR .AMFM/MP3/CLK		
99N	7.3L DEC V8 ENG	1705	1551.00
44G	10-SPD AUTOMATC	NC	NC
TDU	LT275/70OWLAT18	290	264.00
X4M	4.30 ELOCKING	NC	NC
166	CARPET DELETE	(50)	(46.00)
18B	PLAT RUNNING BD	445	405.00
76C	EX BACKUP ALARM	$140	$127.00
86M	DUAL BATTERY	NC	NC
872	RR CAM & PREP K	415	377.00
	SP FLT ACCT CR		(1343.00)
	FUEL CHARGE		19.52
	DEST AND DELIV	1595	1595.00
TOTAL	BASE AND OPTIONS	50425	46474.52
TOTAL		50425	46474.52

THIS IS NOT AN INVOICE

		RETAIL	DLR INV
	11300# GVWR PKG		
41P	SKID PLATES	100	91.00
425	50 STATE EMISS	NC	NC
43B	BACKGLASS DEF	60	55.00
473	SNOW PLOW PKG	250	228.00
	JOB #1 BUILD		
61L	WHL WLL LNR FRT	180	163.00
67B	397 AMP ALTRNTR	115	104.00
TOTAL	BASE AND OPTIONS	50425	46474.52
TOTAL		50425	46474.52

THIS IS NOT AN INVOICE

* MORE ORDER INFO NEXT PAGE *
F8=Next

$ 38645.90

IL TITLE 150.00
IL M PLATE 10.00

$ 38805.90

ORDER OUT ONLY

KUNES COUNTRY FORD
BARB WRIGHT
563-370-2638

VIRTC1DP V4.56 5432 EN

CNGP530
==> _____

VEHICLE ORDER CONFIRMATION

11/07/19 16:51:41
Dealer: F41901
Page: 1 of 2

2020 F-SERIES SD

Order No: 1000 Priority: A1 Ord FIN: QG185 Order Type: 5B Price Level: 020
Ord PEP: 633A Cust/Flt Name: COAL VALLEY PO Number:

		RETAIL
X3F	F350 4X4 S/C CC .168" WHEELBASE	$44235
PQ	RACE RED	
2	CLTH 40/CNSL/40	945
S	MEDIUM EARTH GR	
633A	PREF EQUIP PKG .XLT TRIM	
54K	.TELE TT MIR-PWR .AMFM/MP3/CLK	
99N	7.3L DEC V8 ENG	1705
44G	10-SPD AUTOMATC	NC
TDU	LT275/70OWLAT18	290
X4M	4.30 ELOCKING	NC
166	CARPET DELETE	(50)
18B	PLAT RUNNING BD	445

		RETAIL
	11300# GVWR PKG	
41P	SKID PLATES	100
425	50 STATE EMISS	NC
43B	BACKGLASS DEF	60
473	SNOW PLOW PKG	250
	JOB #1 BUILD	
61L	WHL WLL LNR FRT	180
67B	397 AMP ALTRNTR	115

TOTAL BASE AND OPTIONS 50425
TOTAL 50425
THIS IS NOT AN INVOICE

* MORE ORDER INFO NEXT PAGE *

F1=Help F2=Return to Order F8=Next
F4=Submit F5=Add to Library F3/F12=Veh Ord Menu
S006 - MORE DATA IS AVAILABLE.

QC09095

MS2 CNGP530 VEHICLE ORDER CON

VIRTC1DP V4.56 5432 EN

CNGP530
==> _____

VEHICLE ORDER CONFIRMATION

11/07/19 16:51:47
Dealer: F41901
Page: 2 of 2

2020 F-SERIES SD

Order No: 1000 Priority: A1 Ord FIN: QG185 Order Type: 5B Price Level: 020
Ord PEP: 633A Cust/Flt Name: COAL VALLEY PO Number:

		RETAIL
76C	EX BACKUP ALARM	$140
86M	DUAL BATTERY	NC
872	RR CAM & PREP K	415
	SP DLR ACCT ADJ	
	SP FLT ACCT CR	
	FUEL CHARGE	
B4A	NET INV FLT OPT	NC
	DEST AND DELIV	1595

TOTAL BASE AND OPTIONS 50425
TOTAL 50425
THIS IS NOT AN INVOICE

$ 38,154 00

PLUS ANY TAX, TITLE, LIC FEES

F1=Help F2=Return to Ord
F4=Submit F5=Add to Library
S099 - PRESS F4 TO SUBMIT

COURTESY DAVENPORT

Ford

GERRY SWAN
Commercial/Fleet/Retail Sales
gswan@courtesyfordqc.com
CourtesyFordqc.com

3921 West River Dr.
Davenport, IA 52802
(563) 326-4011
Fax (563) 326-3912

BONNELL INDUSTRIES INC
TRUCK & ROAD EQUIPMENT

1385 Franklin Grove Rd
Dixon, IL 61021
815-284-3819 * 815-284-8815 Fax
800-851-9664
www.bonnell.com * info@bonnell.com

Quote

Order Number: 0137012
Order Date: 10/25/2019

Sourcewell
Awarded Contract
080818-BNL

Delivery Ticket only do not remit from the Sales Order. Invoice will arrive in the mail.

Bill To: 0007807
VILLAGE OF COAL VALLEY
PO BOX 105
COAL VALLEY, IL 61240

Ship To: 02
VILLAGE OF COAL VALLEY
1002 E 19TH AVE
COAL VALLEY, IL 61240

Phone: (309) 799-3604 Fax: (309) 799-3651 pwoods@coalvalleyil.org
Confirm To: RYAN HAMERLINCK
Comment:

Phone :
Fax :

Customer P.O.	Ship VIA	F.O.B.	Terms
			Net 30 Days

Ordered	Unit	Item Number	D/S	Each Price	Extended Price
1.00	EACH	**TRUCK EQUIPMENT**		27,555.00	27,555.00

APPLICATION 2019 FORD F250 EXTENDED CAB WITH A 60" CA

INSTALL THE FOLLOWING

WILL NEED TO RELOCATE BACKUP CAMERA

KNAPHEIDE 7108F FLIP TOP SERVICE BODY 108" LONG 78" WIDE
-TWO ADJUSTABLE DIVIDER SHELVES & DIVIDERS, STREET & CURB SIDE FRONT VERTICAL COMPARTMENT
-ONE ADJUSTABLE DIVIDER SHELF & DIVIDERS STREET AND CURB SIDE FULL HEIGHT REAR VERTICAL COMPARTMENT
-ONE ADJUSTABLE DIVIDER SHELF & DIVIDERS, CURB SIDE HORIZONTAL COMPARTMENT
-AUTOMOTIVE QUALITY ROTARY LATCHES & DOUBLE SPRING OVER CENTER DOOR RETAINERS ON ALL VERTICAL DOORS, ONE 12" SLAM TAILGATE
-LIGHT MOUNTING HOLES FOR KNAPHEIDE LIGHTS

77009637 KNAPHEIDE POWER LOCKS
20180900 LED SURFACE MOUNT STOP/TAIL/TURN LIGHTS
20063020 STEEL SIDE MOUNT LADDER RACK
26102533 CLASS V RECIEVER HITCH FOR UTILITY BODY
20192696 CTECH 6 DRAWER UNIT (3-3", 2-5", 1-7") ONE IN EACH FRONT COMPARTMENT
12256319 HARNESS FOR REAR STROBES FOR USE WITH FACTORY SWITCH
2620227 UPFITTER POWER SWITCH
26266312 CAB GAURDCENTER SECTION 49" WIDE FOR LOW PROFILE
32776970 FRONT STROBE KIT INCLUDES TWO AMBER STROBES AND HARNESS
20195110 78" WIDE GALVA GRIP BUMPER WITH HITCH RECESS
20094550 BODY INSTALL KIT FOR 2017 AND NEWER FORD
INSTALL KNAPHEIDE LED COMPARTMENT LIGHTING KIT

PV2000FC POWER INVERTER, TRIPP LITE 2000 CONT.,4000 SURGE 2-RECPT. INVERTER WILL BE POWERED BY ADDITIONAL ISOLATED BATTERIES. INVERTER WILL BE INSTALLED IN FRONT CURBSIDE COMPARTMENT. BATTERIES WILL BE MOUNTED
ON BATTERY TRAY MOUNTED NEXT TO INVERTER

ADD RV TRAILER PLUG

SERIVCE BODY TO BE PAINTED IN HOUSE ONE SINGLE STAGE COLOR
FORD RACE RED
KNAPHEIDE 26266312 CAB GAURD CENTER SECTION TO BE BLASTED AND PAINTED SINGLE STAGE FORD RACE RED

Continued

BONNELL INDUSTRIES INC
TRUCK & ROAD EQUIPMENT

1385 Franklin Grove Rd
Dixon, IL 61021
815-284-3819 * 815-284-8815 Fax
800-851-9664
www.bonnell.com * info@bonnell.com

Quote

Order Number: 0137012
Order Date: 10/25/2019

Sourcewell
Awarded Contract
080818-BNL

Delivery Ticket only do not remit from the Sales Order. Invoice will arrive in the mail.

Bill To: 0007807
VILLAGE OF COAL VALLEY
PO BOX 105
COAL VALLEY, IL 61240

Ship To: 02
VILLAGE OF COAL VALLEY
1002 E 19TH AVE
COAL VALLEY, IL 61240

Phone: (309) 799-3604 Fax: (309) 799-3651 pwoods@coalvalleyil.org
Confirm To: RYAN HAMERLINCK
Comment:

Phone :
Fax :

Customer P.O.	Ship VIA	F.O.B.	Terms
			Net 30 Days

Ordered	Unit	Item Number	D/S	Each Price	Extended Price
		LIGHTING INSTALL KNAPHEIDE FRONT STROBE KIT IN FRONT GRILL, HOOK TO FACTORY SWITCHES 2- ABL-2000-0018 ABL WORK LIGHTS TO BE INSTALLED ON CAB GUARD WIRED TO FACTORY SWITCHES 1- FED-454101HL-AWA TO BE INSTALLED ON TOP OF CAB GUARD WIRED TO FACTORY SWITCHES WESTERN 8'6" PRO PLUS PLOW INSTALL ITEMS LISTED BELOW RHINO LINING ENTIRE CARGO AREA, TOPS OF COMPARTMENTS, TAILGATE AND 12" UP ON THE FRONT OF EACH SIDE OF THE BODY		
1.00	EACH	**SERVICE BODY**			
1.00	EACH	**WES-76974**			
Location: 501		8-1/2' PRO PLUS MOLDBOARD FLEET FLEX ASSY			
1.00	EACH	**WES-31270**			
Location: 508D		ULTRAMOUNT MOUNT, FORD SUPER DUTY F250 - F550			
1.00	EACH	**WES-75700-3**			
		BIG BOX ASSY., PRO PLUS & PRO PLUS HD			
1.00	EACH	**WES-72530**			
Location: 511C		NIGHTHAWK DUAL CAVITY HALOGEN HEADLIGHT KIT			
1.00	EACH	**WES-29760-2**			
Location: 509		3 PORT LIGHTING MODULE KIT, SOFT START FOR 2008 FORD W/ OR W/O DRL ***CONSISTS OF A WES-29070-1 & WES-76272*** ***DIRECT REPLACEMENT FOR A WES-29760-1 MODULE***			
1.00	EACH	**WES-96500**			
Location: 509		MULTI - POSITION HAND HELD CONTROLLER			
1.00	EACH	**WES-62220-1**			
		RUBBER DEFLECTOR KIT 9 FOOT			

Continued

BONNELL INDUSTRIES INC
TRUCK & ROAD EQUIPMENT

1385 Franklin Grove Rd
Dixon, IL 61021
815-284-3819 * 815-284-8815 Fax
800-851-9664
www.bonnell.com * info@bonnell.com

Quote

Sourcewell Awarded Contract # 080818-BNL

Delivery Ticket only do not remit from the Sales Order. Invoice will arrive in the mail.

Order Number: 0137012
Order Date: 10/25/2019

Bill To: 0007807
VILLAGE OF COAL VALLEY
PO BOX 105
COAL VALLEY, IL 61240

Ship To: 02
VILLAGE OF COAL VALLEY
1002 E 19TH AVE
COAL VALLEY, IL 61240

Phone: (309) 799-3604 Fax: (309) 799-3651 pwoods@coalvalleyil.org
Confirm To: RYAN HAMERLINCK
Comment:

Phone :
Fax :

Customer P.O.	Ship VIA	F.O.B.	Terms
			Net 30 Days

Ordered	Unit	Item Number	D/S	Each Price	Extended Price
1.00	EACH	**WES-43885**			
Location: 516C		CURB GUARD KIT EA. { 5/8" FASTNERS }			

15% RESTOCKING FEE ON RETURNED ITEMS

NO RETURNS ON ELECTRICAL ITEMS

ARH

Net Order:	27,555.00
Less Discount:	0.00
Freight:	0.00
Sales Tax:	0.00
Order Total:	27,555.00
Less Deposit:	0.00
Order Balance:	27,555.00

Please Pay From Invoice
1-1/2% Per Month (18% Annual Rate) Finance Charge Will Be Added to Past Due Accounts

Salesperson: 0005 Kendall Blumeyer

KNAPHEIDE
SINCE 1848

Knapheide Truck Equipment - Quincy
P.O. Box 290
Quincy IL 62306
Phone: 217-222-2743
Fax: 217-224-7994
www.quincy.knapheide.com

QUOTATION

Quote ID: DT00002285

Customer: COURTESY FORD
3921 W RIVER DRIVE
DAVENPORT IA 52802

Quote Number: DT00002285
Quote Date: 10/25/2019
Quote valid until: 11/24/2019

Contact:

Phone: 1-563-326-4011
Fax: 1-563-326-3912

Prepared By: dtanner
Salesperson: JAMES BRANCH
PO#:

Enduser: Riverstone

Make: FORD	***Model:*** F-350	***Year:*** 2020	***Single/Dual:*** SRW
Cab Type:	***Wheelbase:***	***Cab-to-Axle:*** 60.0	***VIN:***

QTY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
1	KNAP 7108FJ40	9' FLIPTOP SERVICE BODY	$9,405.00	**$9,405.00**
1	KNAP 20051560	INSTALL KIT FORD 60+CA		
1	KNAP 77006419	DELETE DOOR SEAL - 9 FT. UB		
1	KNAP 26057893	BUMPER AY GALVA-GRIP78JW/RECESS FORD		
1.25	PAIN MAT	PAINTING MATERIALS		
1	KNAP 20039480	SERVICE BODY 6 CIRCUIT LED		
1	KNAP 20048435	FUEL FILL CUP KIT, ALUM		
70	KNAP 12221958	SEAL DOOR UB TUBULAR W.ADHESIVE		
1	BUYE 1801050	HITCH UNIVERSAL FIT	$385.00	**$385.00**
1	POLL 11-893P	RV OEM-STYLE 7-WAY SOCKET	$92.00	**$92.00**
1	EWH 12254827	PGN ADAPTER		
1	DISCOUNT	DEALER DISCOUNT	($200.00)	**($200.00)**
1	KNAP OPT 1	INSTALL BACK UP CAMERA IN BUMPER	$99.00	**$99.00**
1	PAIN MAT	PAINT UPGRADE BASE CLEAR RACE RED	$690.00	**$690.00**
1	KNAP 20063020	LADDER RACK, SIDE MNT, PAINTED RACE RED	$605.00	**$605.00**
1	KNAP 77009587	LOCK, POWER, INSTALLED,	$1,225.00	**$1,225.00**
6	BUYE 5624872	LED COMPARTMENT LIGHTS WIRED TO SWITCH IN CAB	$112.00	**$672.00**
1	KNAP 26266379	UNIVERSAL CAB GUARD AY 49W J	$970.00	**$970.00**
1	KNAP 26265918	KIT BOLT ON LEFT WING CAB GUARD		
1	KNAP 26266098	KIT BOLT ON RIGHT WING CAB GUARD		
2	BUYE 1492127	LED WORK LIGHTS MOUNTED ON EACH SIDE OF CAB GUARD WIRED TO SWITCH IN CAB	$235.00	**$470.00**
1	ECCO 5550CAC	LED STROBE BAR MOUNTED IN THE MIDDLE OF CAB GUARD AND WIRED TO SWITCH IN CAB	$485.00	**$485.00**
1	KTEC PARTS	LINER IN CARGO AREA AND TOP OF COMPARTMENTS/FLIP TOPS	$1,045.00	**$1,045.00**
1	KTEC PARTS	LINER ON FRONT END PANELS 20X40"	$295.00	**$295.00**

KNAPHEIDE
SINCE 1848

Knapheide Truck Equipment - Quincy
P.O. Box 290
Quincy IL 62306
Phone: 217-222-2743
Fax: 217-224-7994
www.quincy.knapheide.com

QUOTATION

Quote ID: DT00002285

QTY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
1	KTEC BUMPER	KNAPLINE BUMPER	$92.00	$92.00
1	KNAP 77014890	C TECH DRAWER UNIT MOUNTED IN R1V CTECH 6 Drawer Unit (3-3", 2-5", 1-7"), 28.0"W x 30.0"H x 12.0"D	$1,800.00	$1,800.00
1	KNAP 77014900	CTECH DRAWER UNIT MOUNTED IN L1V CTECH 6 Drawer Unit (3-3", 2-5", 1-7"), 28.0"W x 30.0"H x 12.0"D	$1,800.00	$1,800.00
1	SAML PST-3000-12	3000 WATT INVERTER 12 VDC PURE SINE WAVE INVERTER MOUNTED UNDER BACK SEAT. NO AUX BATTERY.	$1,545.00	$1,545.00
1	MISC SUPPLIES	WIRE AND FUSES FOR INVERTER		
1	KNAP 12256319	4 CORNER STROBE SYSTEM. REAR INTEGRATED STROBES	$625.00	$625.00
2	ECCO ED3701AC	4 CORNER STROBE SYSTEM FRONT FLUSH MOUNT STROBES IN GRILL		
1	WS 76974	BLADE ASSY 8'6" PROPLUS W/QUAD	$7,655.00	$7,655.00
1	WS 31270	MOUNT KIT FORD F250SD-550SD		
1	WS 75700-3	BIG BOX ASSY PRO PLUS H9/H11		
1	WS 72530	HEADLIGHT KIT (PR)NIGHTHAWK		
1	WS 73973-1	HARNESS LIGHT FORD HALO 2017 H13 QUAD LAMP		
1	WS 69826-2	ADAPTER KIT RELAY		
1	WS 29760-2	MODULE 3 PORT - SOFT START		
1	WS 96500	MULTI-POSITION PLOW HH CONTROL		
1	WS 43885	CURB GUARD 5/8" fasteners w/o		
1	WS 62220-1	RUBBER DEFLECTOR KIT 9.0' ORDER IN MULT OF 2 ONLY		
			Quote Total:	**$29,755.00**
			Discount:	**($120.00)**
			Total Due(Sales tax not included):	**$29,635.00**

The following options may be added:

QUANTITY	DESCRIPTION	PRICE EACH	AMOUNT	ADD TO QUOTE
				Yes / No

Notes:

This Quote is subject to the following terms and conditions:

Pricing Policy

- Price Quotation is good on orders received through the expiration date.
- Pricing quoted applies to chassis make/model originally provided and quantity quoted. Any change may result in price change.
- Orders are subject to all applicable state, local and federal excise taxes. Applicable taxes will be applied on final billing to customer upon completion of order.

Payment Policy

KNAPHEIDE
SINCE 1848

Knapheide Truck Equipment - Quincy
P.O. Box 290
Quincy IL 62306
Phone: 217-222-2743
Fax: 217-224-7994
www.quincy.knapheide.com

QUOTATION

Quote ID: DT00002285

- Payment Terms are due upon receipt of signed quote unless prior credit agreement has been established at the time of order.
- Payment terms for customers with an established credit account will be Net 30 from date of invoice.
- Knapheide has right to assess late charges at 1.5% per month on all invoices that are 60 days or more past due.

Return Policy

- All sales are final. Purchased parts or products are non returnable.

Cancellation Policy

- Payment is due in full upon cancellation of any orders for non-stocked parts or products (provided part/product has been ordered by Knapheide) and upon cancellation of installation orders, once product installation has begun.

Customer agrees and understands this Quote is an offer to sell subject to the terms and conditions above and any additional terms or modifications are hereby objected to, unless mutually agreed upon in writing by Customer and Knapheide. The undersigned represents and warrants that he/she is duly authorized to sign below on behalf of Customer and thereby accepts offer and Knapheide will begin processing the order.

Customer must fill out the information below before the order can be processed...

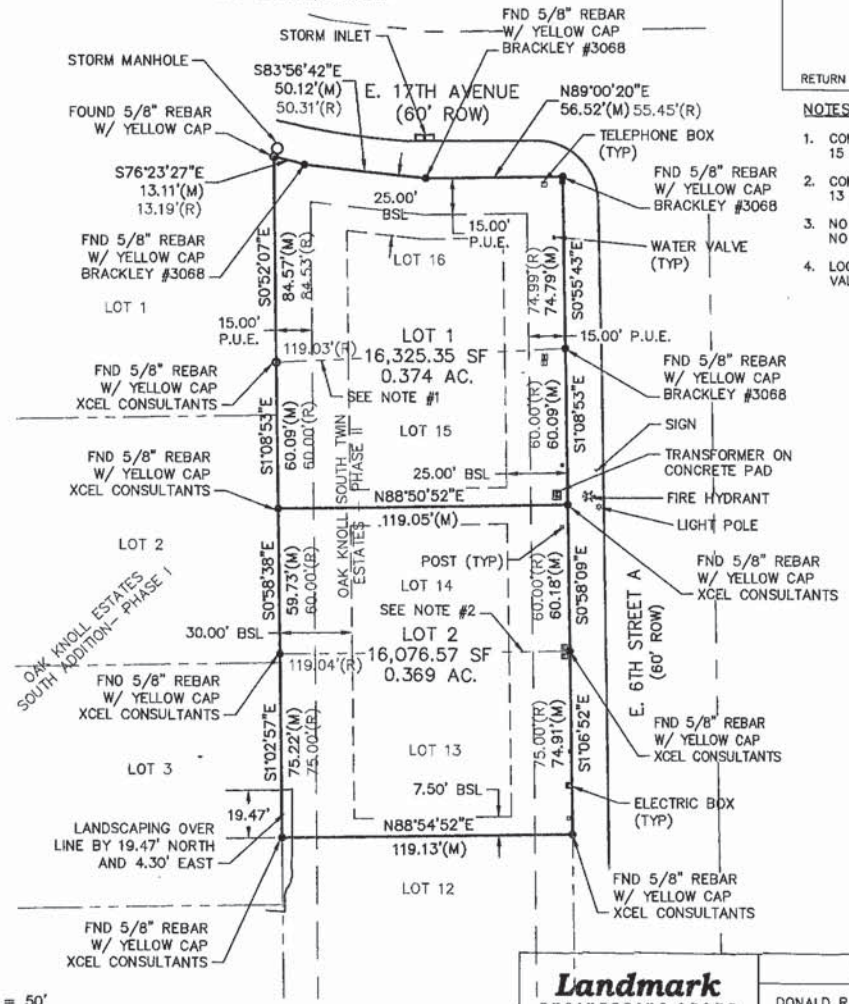
Signature & Print Accepted by:	
Date:	
P.O. number:	

RESUBDIVISION PLAT OF LOTS 13, 14, 15 AND 16 OF RESUBDIVISION PLAT OF OAK KNOLL SOUTH TWIN ESTATES, PHASE II

PART OF THE SE 1/4 OF SECTION 26, T17N, R1W OF THE 4TH P.M., VILLAGE OF COAL VALLEY, ROCK ISLAND COUNTY, ILLINOIS

FOR RECORDER

RETURN TO & PREPARED BY: Landmark Engineering Group – 3440 38th Avenue, Suite 4, Moline, IL 61265



SCALE 1" = 50'

0 25 50 100

BASIS OF BEARINGS
NAVD 88 ILLINOIS WEST ZONE (GPS COORDINATES TOPCON NETWORK)

Landmark
ENGINEERING GROUP
3440 38TH STREET, STE 4 – MOLINE, IL 61265
PHONE (309) 755-5400
CIVIL ENGINEERING AND LAND SURVEYING
DESIGN FIRM REGISTRATION NUMBER 184-001511

NOTES:

1. COMMON LOT LINE BETWEEN LOTS 15 AND 16 TO BE VACATED.
2. COMMON LOT LINE BETWEEN LOTS 13 AND 14 TO BE VACATED.
3. NO EASEMENTS BEING ADDED OR NO EASEMENTS REVISED.
4. LOCATED WITHIN MOLINE – COAL VALLEY SCHOOL DISTRICT #40.

LEGEND

- FOUND IRON ROD
- SET IRON ROD
- PROPERTY LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- (M) MEASURED
- (R) RECORDED
- ROW RIGHT-OF-WAY
- BSL BUILDING SETBACK LINE
- P.U.E PUBLIC UTILITY EASEMENT

STATE OF ILLINOIS)
) SS
COUNTY OF ROCK ISLAND)

OF PROPERTY DESCRIBED AS:

RESUBDIVISION PLAT OF LOTS 13, 14, 15 AND 16 OF RESUBDIVISION PLAT OF OAK KNOLL SOUTH TWIN ESTATES, PHASE II

I hereby state that reference has been made upon the accompanying Resubdivision Plat to known and permanent monuments from which future surveys may be made and that I have found and/or set the Survey Monuments as shown on the accompanying Resubdivion Plat, I have made no independent search of the records for easements, encumbrances, ownership, title evidence, ar for any other facts which an accurate and current title search may disclose for the property Surveyed ar for adjaining parcels, as I have relied upon the materials and presentations supplied to me by the owner. Dimensions are given in feet and decimals of a foot thereof. Distances along curves are chord distances measured pin to pin.

This Resubdivision Plat is designated as a Special Flood Hazard Area Zone X (SB 908, P.A. 85-267).

I further state that the above described premises was surveyed under my direct supervision and that to the best of my knowledge and belief the attached Plat of Boundary Survey is a true and correct representation of same.

I, Beth Grobe, PLS as surveyor of record do authorize a representative of Donald R. Bealer Family, LP to record this plat.

Given under my seal this 4TH Day of NOVEMBER, 2019 at Rockford, Illinois.

Beth A Grobe

Beth A. Grobe P.L.S. 35-003327
My Current License Expires 11/30/2020
Design Firm License No. 184-001511

"This professional service conforms to the current Illinois minimum standards for a boundary survey."

STATE OF ILLINOIS
BETH A. GROBE
35-003327
ROCKFORD, IL
PROFESSIONAL LAND SURVEYOR
11/4/19

OWNER

DONALD R. BEALER FAMILY, LP
5230 RIVER DRIVE
MOLINE, ILLINOIS 61265

DATE: 11/04/2019
DRAWN BY: MG
CHECKED BY: BG

1
SHEET 1 OF 2

01-19-1507

FOR RECORDER

RETURN TO & PREPARED BY: BETH GROBE, P.L.S., ALPHA TO OMEGA, P.O. BOX 5332 – ROCKFORD, IL 61125 – PHONE #779-513-2257

OWNER'S CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF ROCK ISLAND) SS.
VILLAGE OF COAL VALLEY)

KNOW ALL MEN BY THESE PRESENTS, THAT WE/I, Bryan Bealer

OF Donald R. Bealer family LP OWNER(S) AND PROPRIETOR(S) OF THE LAND SHOWN ON THE ACCOMPANYING PLAT AND DESCRIBED IN THE ACCOMPANYING CERTIFICATE OF THE SURVEYOR DO HEREBY CERTIFY THAT I/WE HAVE CAUSED SAID SURVEY TO BE MADE AND ACKNOWLEDGE THE SAID PLAT AS CORRECT, AND DO HEREBY ADOPT AND ACCEPT THE SAME AND CAUSE IT TO BE KNOWN AS

RESUBDIVISION PLAT OF LOTS 13, 14, 15 AND 16 OF
RESUBDIVISION PLAT OF OAK KNOLL SOUTH TWIN ESTATES – PHASE II

SIDEWALKS, WHERE REQUIRED, SHALL BE CONSTRUCTED AT THE TIME A STRUCTURE IS CONSTRUCTED OR AT THE DIRECTION OF THE BOARD OF TRUSTEES OF THE VILLAGE OF COAL VALLEY.

ALL STREETS, ALLEYS, AND PUBLIC OPEN SPACES SHOWN AND NOT HERETOFORE DEDICATED, ARE HEREBY DEDICATED TO THE PUBLIC.

BUILDING SETBACK LINES ARE HEREBY ESTABLISHED AS SHOWN ON THIS PLAT, BETWEEN WHICH LINES AND THE PROPERTY LINES OF THE STREETS THERE SHALL BE ERECTED OR MAINTAINED NO BUILDING STRUCTURE.

IN WITNESS WHEREOF, WE HEREUNTO AFFIX OUR HANDS AND SEALS THIS 6th DAY OF,

November A.D. 2019.

(OWNER)

NOTARY PUBLIC'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF ROCK ISLAND)

I, Amber Dennis, A NOTARY PUBLIC IN AND FOR THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT OWNERS, ARE PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND THAT THEY APPEAR BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGE THAT THEY SIGNED AND SEALED THE SAME AS THEIR FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES THEREIN SET FORTH, INCLUDING THE RELEASE WAIVER FOR THE RIGHT OF HOMESTEAD.

GIVEN UNDER MY HAND AND NOTARIES SEAL THIS 6th DAY OF November, 2019

NOTARY PUBLIC

OFFICIAL SEAL
AMBER R DENNIS
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES:12/17/23

COUNTY CLERK'S CERTIFICATE

I, _____, COUNTY CLERK OF ROCK ISLAND, ILLINOIS, DO HEREBY CERTIFY THAT I FIND NO UNPAID OR FORFEITED TAXES AGAINST ANY OF THE REAL ESTATE INCLUDED WITH THIS PLAT.

COUNTY CLERK

DATE

CERTIFICATE OF VILLAGE BOARD

I, Michael T. Carter, PRESIDENT OF THE VILLAGE BOARD OF TRUSTEES, OF THE VILLAGE OF COAL VALLEY, ILLINOIS, DO HEREBY CERTIFY THAT PLAT SHOWN HEREON WAS DULY PRESENTED TO THE VILLAGE BOARD AND APPROVED AT A MEETING OF SAME HELD ON _____

Landmark
ENGINEERING GROUP
3440 36TH STREET, STE 4 – MOLINE, IL 61265
PHONE (309) 756-3400
CIVIL ENGINEERING AND LAND SURVEYING
DESIGN FIRM REGISTRATION NUMBER 184-001511

OWNER

DONALD R. BEALER FAMILY, LP
5230 RIVER DRIVE
MOLINE, ILLINOIS 61265

DATE: 11/04/2019
DRAWN BY: HLG
CHECKED BY: BG

2
SHEET 2 OF 2

01-19-1507

Incorporated 1876
"A Progressive Community
with a proud past"

Village of Coal Valley
900 1st Street
P.O. Box 105
Coal Valley, Illinois 61240
Phone 309-799-3604 Fax 309-799-3651
www.coalvalleyil.org

Michael Bartels
Village President

Tax Levy 2019 Options

	2018 TENATIVE ASSESSED EVALUATION	2019 TENTATIVE ASSESSED EVALUATION		
Rock Island County	$64,851,965.00	$66,846,763.00	$1,994,798.00	2.98% Increase
Henry County	$8,891,734.00	$9,136,143.00	$244,409.00	2.68% Increase
Total	$73,743,699.00	$75,982,906.00	$2,239,207.00	2.95% Increase

If we were to do no increase **0.00%** - Increase to tax levy based on current EAV will generate an increase in general revenue of **$9,802**

If we do a **2.50%** - Increase to tax levy based on current EAV will generate an increase in general revenue of $9,802 **plus** $8,313 = **$18,115**

If we do a **4.99% -** Increase to tax levy based on current EAV will generate an increase in general revenue of $9,802 **plus** $16,598 = **$26,400**

Our levy revenue received;

If 0.00% Increase - $33,333 X .4380 (Village tax portion) = $146.00 per $100,000 Taxable Value

If 2.50% Increase - $33,333 X .4490 (Village tax portion) = $150.00 **(+$4.00**) per $100,000 Taxable Value

If 4.99% Increase - $33,333 X .4499 (Village tax portion) = $153.00 **(+$7.00**) per $100,000 Taxable Value

Annette Ernst
Village Administrator

Penny Mullen
Asst. Village Administrator
Director of Finance

Deanna Hulliger
Village Clerk

Jack Chick
Police Chief

Ryan Hamerlinck
Streets Parks & Water

Jamie Just
Building Inspector

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Michael Bartels
Village President

Village of Coal Valley
Financial Report
October 2019

General Fund:

Total general fund revenue for the 10 months ending October 31, 2019 was $1,244,509.62 and expenditures were $1,161,897.68 (includes interfund operating transfers). Revenues for the month of October were $101,213.37 and expenses for the month of October were $97,435.92(includes interfund operating transfers).

Administrative Department expenditures fiscal year-to-date are $137,825.68. Expenditures were $10,504.01 for the month of October. Wages totaled $7,143.64, health insurance and benefits $1,518.61, dues $275.50, postage $860.11, telephone $100.61, utilities $64.00, office supplies $41.74 and other $499.80.

Police Department expenditures fiscal year-to-date are $550,830.07. Expenditures were $51,024.30 for the month of October. Wages totaled $35,162.45, health insurance and benefits $12,191.87, maintenance service equipment & vehicle $1,210.95, dues $110.00, postage $17.07, fuel $1,014.63, telephone $602.16, office & operating supplies $583.85, utilities $76.00 and other $55.32.

Street Department expenditures fiscal year-to-date are $236,111.13. Expenditures were $14,083.74 for the month of October. Wages totaled $6,334.80, health insurance and benefits $2,102.87, maintenance street $1,906.42, fuel $479.08, training $874.00, operating supplies $132.91 and utilities $2,253.66.

Park Department expenditures fiscal year-to-date are $74,600.13. Expenditures were $5,465.79 for the month of October. Wages and benefits totaled $4,391.42, maintenance supplies equipment $672.42, utilities $180.00, operating supplies $197.42 and fuel $24.53.

Economic Development Department expenditures fiscal year-to-date are $43,964.30. Expenditures were $3,784.08 for the month of October. Wages and benefits totaled $3,784.08.

MFT Fund:

Total MFT fund revenue for the 10 months ended October 31, 2019 was $88,800.90 and expenditures were $85,295.30.

Motor Fuel Tax revenues for the month of October are $13,561.89. Expenditures were $2,819.39 for the month of October.

TIF Fund:

Total TIF revenue for the 10 months ended October 31, 2019 was $101,591.36 and expenditures were $89.044.04.

Tax Increment Financing revenues for the month of October are $6,862.63. Expenditures were $4,549.22 for the month of October. Wages and benefits totaled $2,799.22 and professional services $1,750.00.

Water Fund:

Total water fund revenue for the 10 months ended October 31, 2019 was $1,464,292.95 and expenditures were $1,516,403.70.

Water Department revenues for the month of October are $139,590.28. Expenditures were $252,138.30 for the month of October. Wages and benefits $15,917.90, telephone $571.85, postage $804.44, publishing $789.00, printing $290.00, maintenance building, equipment, vehicle and utility supplies $44.82, sewer services $142,231.76, capital projects $87,620.65, fuel $520.99, small tools $188.87, utilities $3,001.00, and other $157.02.

Annette Ernst — Village Administrator
Penny Mullen — Asst. Village Administrator / Director of Finance
Deanna Hulliger — Village Clerk / Accounting Assistant
Jack Chick — Police Chief
Ryan Hamerlinck — Streets Parks & Water
Jamie Just — Building Inspector / Property Maintenance

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Michael Bartels
Village President

Summary Cash Balances

Beginning Balance October 1, 2019 $4,393,791.00

General Fund	$2,262,426.25
Motor Fuel Tax	$102,489.32
TIF	$519,358.60
Capital Equipment	$2,852.93
Capital Improvement	$39,092.94
Asset Forfeiture	$301.72
Controlled Substance	$413.54
DUI	$14,250.08
Yard Waste	$5,320.84
Water Fund	$1,178,140.09
W & S	$10,756,37

Ending Balance October 31, 2019 $4,135,402.68

Premium Summary

The estimated program cost for the options are outlined in the following table:

LINE OF COVERAGE		EXPIRING PROGRAM CARRIER	EXPIRING PROGRAM EXPIRING COST	PROPOSED PROGRAM CARRIER	PROPOSED PROGRAM ESTIMATED COST
Property	Premium	Argonaut Great Central Insurance Company (Argo Group)	-	Argonaut Great Central Insurance Company (Argo Group)	$10,153.00
	Estimated Cost		**$7,555.00**		**$10,153.00**
	TRIA Premium		-		$305.00
Inland Marine	Premium	Argonaut Great Central Insurance Company (Argo Group)	-	Argonaut Great Central Insurance Company (Argo Group)	$1,034.00
	Estimated Cost		**$676.00**		**$1,034.00**
	TRIA Premium		-		$31.00
Automobile	Premium	Argonaut Great Central Insurance Company (Argo Group)	-	Argonaut Great Central Insurance Company (Argo Group)	$3,782.00
	Estimated Cost		**$3,731.00**		**$3,782.00**
	TRIA Premium		-		-
General Liability	Premium	Argonaut Great Central Insurance Company (Argo Group)	-	Argonaut Great Central Insurance Company (Argo Group)	$4,398.00
	Estimated Cost		**$5,681.00**		**$4,398.00**
	TRIA Premium		-		$132.00
Public Officials' Liability	Premium	Argonaut Great Central Insurance Company (Argo Group)	-	Argonaut Great Central Insurance Company (Argo Group)	$748.00
	Estimated Cost		**$916.00**		**$748.00**
	TRIA Premium		-		-
Employment Practices Liability	Premium	Argonaut Great Central Insurance Company (Argo Group)	-	Argonaut Great Central Insurance Company (Argo Group)	$2,446.00
	Estimated Cost		**$3,257.00**		**$2,446.00**
	TRIA Premium		-		-
Law Enforcement Liability	Premium	Argonaut Great Central Insurance Company (Argo Group)	-	Argonaut Great Central Insurance Company (Argo Group)	$2,893.00
	Estimated Cost		**$2,893.00**		**$2,893.00**
	TRIA Premium		-		-
Excess Liability	Premium	Argonaut Great Central Insurance Company (Argo Group)	-	Argonaut Great Central Insurance Company (Argo Group)	$5,086.00
	Estimated Cost		**$6,046.00**		**$5,086.00**
	TRIA Premium		**Included**		$153.00

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Insurance | Risk Management | Consulting

LINE OF COVERAGE		EXPIRING PROGRAM CARRIER	EXPIRING COST	PROPOSED PROGRAM CARRIER	ESTIMATED COST
Equipment Breakdown	Premium	Hartford Steam Boiler Inspection & Insurance Co. (Munich Re America Corporation Group)	-	Hartford Steam Boiler Inspection & Insurance Co. (Munich Re America Corporation Group)	$1,074.00
	Estimated Cost		**$1,009.00**		**$1,074.00**
	TRIA Premium		Included		$0.00
Crime	Premium	Citizens Insurance Company of Illinois (Hanover Insurance Companies)	-	Hanover Insurance Company (Hanover Insurance Companies)	$955.00
	Estimated Cost		**$955.00**		**$955.00**
	TRIA Premium		-		-
Cyber Liability	Premium	BCS Insurance Company (BCS Insurance Company)	-	BCS Insurance Company (BCS Insurance Company)	$1,672.00
	Estimated Cost		**$1,619.00**		**$1,672.00**
	TRIA Premium		-		$18.00
Workers' Compensation	Premium	Illinois Public Risk Fund (Illinois Public Risk Fund)	-	Illinois Public Risk Fund (Illinois Public Risk Fund)	$23,234.00
	Total Fees		-		$697.00
	Estimated Cost		**$20,223.00**		**$23,931.00**
	TRIA Premium		Included		Included
Total Estimated Program Cost			**$54,561.00**		**$58,172.00 (without TRIA)**

Gallagher
Insurance | Risk Management | Consulting

ACCOUNTS PAYABLE ACCOUNT LEDGER

INVOICE/LINE	1099 BK	DUE DATE	INV DT	TY	ST	REFERENCE	CHECK NO	INV AMT / AMT PAID	OPEN AMT / MANUAL
1010 ADVANCED BUSINESS SYSTEMS, INC									
INV151332	1	11/21/2019	11/21/2019	I	S	NOV COPIER MAINT.	01-11-512	77.81	77.81
								MAINT. SERVICE-EQUIPMENT	
	2	11/21/2019	11/21/2019	I	S	NOV COPIER MAINT.	01-21-512	77.81	77.81
								MAINT. SERVICE-EQUIPMENT	
VENDOR TOTAL								155.62	155.62
1076 AT&T									
10312019	1	1 11/21/2019	11/21/2019	I	S	U-VERSE	51-00-552	62.82	62.82
								TELEPHONE	
VENDOR TOTAL								62.82	62.82
1089 AXON ENTERPRISE, INC.									
SI-1620834	1	11/21/2019	11/21/2019	I	S	EVIDENCE.COM LICENSE	01-21-512	792.00	792.00
								MAINT. SERVICE-EQUIPMENT	
SI-1621401	1	11/21/2019	11/21/2019	I	S	TASERS EQUIPMENT	01-21-512	690.00	690.00
								MAINT. SERVICE-EQUIPMENT	
VENDOR TOTAL								1482.00	1482.00
1091 B & B DRAIN-TECH									
130734	1	11/21/2019	11/21/2019	I	S	JET FORCE MAIN W 15TH AVE LIFT STATION	51-00-615	325.00	325.00
								MAINT SUPP UTILITY SYS	
VENDOR TOTAL								325.00	325.00
1115 BLACKHAWK BANK & TRUST									
10312019	1	11/21/2019	11/21/2019	I	S	CLEANING SUPPLIES/NO SHAVE	01-21-652	10.00	10.00
								OPERATING SUPPLIES	
	2	11/21/2019	11/21/2019	I	S	CLEANING SUPPLIES/NO SHAVE COFFEE/TRAINING	01-21-652	210.00	210.00
								OPERATING SUPPLIES	
	3	11/21/2019	11/21/2019	I	S	CLEANING SUPPLIES/NO SHAVE COFFEE/TRAINING	01-21-652	7.28	7.28
								OPERATING SUPPLIES	

ACCOUNTS PAYABLE ACCOUNT LEDGER

INVOICE/LINE	1099	BK	DUE DATE	INV DT	TY	ST	REFERENCE / CHECK NO	INV AMT / AMT PAID	OPEN AMT / MANUAL
1115 BLACKHAWK BANK & TRUST									
10312019	4		11/21/2019	11/21/2019	I	S	CLEANING SUPPLIES/NO SHAVE COFFEE/TRAINING	377.35	377.35
							01-21-562	TRAVEL EXPENSES	
	5		11/21/2019	11/21/2019	I	S	CLEANING SUPPLIES/NO SHAVE COFFEE/TRAINING	59.99	59.99
							01-21-563	TRAINING	
AE10312019	1		11/21/2019	11/21/2019	I	S	SAMS RENEWAL/WATER OP AD/MECHA	699.00	699.00
							51-00-563	TRAINING	
	2		11/21/2019	11/21/2019	I	S	SAMS RENEWAL/WATER OP AD/MECHA INSP	35.00	35.00
							51-00-553	PUBLISHING	
	3		11/21/2019	11/21/2019	I	S	SAMS RENEWAL/WATER OP AD/MECHA INSP	418.00	418.00
							01-41-563	TRAINING	
	4	1	11/21/2019	11/21/2019	I	S	SAMS RENEWAL/WATER OP AD/MECHA INSP	50.00-	50.00-
							01-41-563	TRAINING	
PM10312019	1		11/21/2019	11/21/2019	I	S	AD NOTARY STAMP/TELEPHONE/LABO	20.85	20.85
							01-11-548	OTHER PROFESSIONAL SERVICES	
	2		11/21/2019	11/21/2019	I	S	AD NOTARY STAMP/TELEPHONE/LABO POSTER/IA CODE TRAINING/ENG DX	70.68	70.68
							51-00-552	TELEPHONE	
	3		11/21/2019	11/21/2019	I	S	AD NOTARY STAMP/TELEPHONE/LABO POSTER/IA CODE TRAINING/ENG DX	22.21	22.21
							01-11-652	OPERATING SUPPLIES	
	4		11/21/2019	11/21/2019	I	S	AD NOTARY STAMP/TELEPHONE/LABO POSTER/IA CODE TRAINING/ENG DX	94.74	94.74
							01-41-563	TRAINING	
	5		11/21/2019	11/21/2019	I	S	AD NOTARY STAMP/TELEPHONE/LABO POSTER/IA CODE TRAINING/ENG DX	286.26	286.26
							51-00-615	MAINT SUPP UTILITY SYS	
RH10312019	1		11/21/2019	11/21/2019	I	S	EXHAUST FLUID/STRAPS/SOAP/BLAD	137.32	137.32
							01-41-652	OPERATING SUPPLIES	
	2		11/21/2019	11/21/2019	I	S	EXHAUST FLUID/STRAPS/SOAP/BLAD HEADPLUGS/COMPOUND	5.09	5.09
							51-00-652	OPERATING SUPPLIES	
	3		11/21/2019	11/21/2019	I	S	EXHAUST FLUID/STRAPS/SOAP/BLAD HEADPLUGS/COMPOUND	36.83	36.83
							51-00-652	OPERATING SUPPLIES	
VENDOR TOTAL								2440.60	2440.60
2066 CAMPION, BARROW & ASSOC.									
024460	1		11/21/2019	11/21/2019	I	S	OFFICER TESTING-D.THARP	425.00	425.00
							01-21-548	OTHER PROFESSIONAL SERVICES	
VENDOR TOTAL								425.00	425.00

ACCOUNTS PAYABLE ACCOUNT LEDGER

INVOICE/LINE	1099 BK	DUE DATE	INV DT	TY	ST	REFERENCE	CHECK NO	INV AMT / AMT PAID	OPEN AMT / MANUAL
1335 CINTAS LOC 23M									
4034045635	1	11/21/2019	11/21/2019	I	S	MATS	01-41-652	28.72 OPERATING SUPPLIES	28.72
VENDOR TOTAL								28.72	28.72
1286 ELECTRIC PUMP									
0884992-IN	1	11/21/2019	11/21/2019	I	S	W 15TH AVE LIFT STATION HEATER	51-00-615	2590.93 MAINT SUPP UTILITY SYS	2590.93
VENDOR TOTAL								2590.93	2590.93
1292 ENVIRONMENTAL MANAGEMENT SERVI									
30278	1	11/21/2019	11/21/2019	I	S	JETER W 15TH AVE	51-00-615	300.77 MAINT SUPP UTILITY SYS	300.77
VENDOR TOTAL								300.77	300.77
1298 ERICKSON PLUMBING & HEATING									
32555	1	11/21/2019	11/21/2019	I	S	E 3RD ST 2" WATER REPAIR	51-00-615	2349.50 MAINT SUPP UTILITY SYS	2349.50
VENDOR TOTAL								2349.50	2349.50
1052 ANNETTE ERNST									
11162019	1	11/21/2019	11/21/2019	I	S	DISTRICT 71 STAKEHOLDERS	01-11-563	47.56 TRAINING	47.56
VENDOR TOTAL								47.56	47.56
1334 G & L AUTO									

ACCOUNTS PAYABLE ACCOUNT LEDGER

INVOICE/LINE	1099	BK	DUE DATE	INV DT	TY	ST	REFERENCE / CHECK NO		INV AMT / AMT PAID	OPEN AMT / MANUAL
1334 G & L AUTO										
10162019	1	1	11/21/2019	11/21/2019	I	S	2010 F-350 DIAGNOSTICS ON MOTOR		45.00	45.00
								51-00-613	MAINT SUPP VEHICLE	
103119	1	1	11/21/2019	11/21/2019	I	S	2019 FORD f550 2 TIRES		531.34	531.34
								01-41-513	MAINT. SERVICE-VEHICLE	
VENDOR TOTAL									576.34	576.34
1346 GENESEO COMMUNICATIONS										
11062019	1		11/21/2019	11/21/2019	I	S	INTERNET		25.00	25.00
								01-21-552	TELEPHONE	
	2		11/21/2019	11/21/2019	I	S	INTERNET		25.00	25.00
								01-11-552	TELEPHONE	
CVL-001-1030	1		11/21/2019	11/21/2019	I	S	POLICE ADD'L FIBER OPTICS		375.00	375.00
								01-21-552	TELEPHONE	
VENDOR TOTAL									425.00	425.00
1365 GRAINGER										
9344382826	1		11/21/2019	11/21/2019	I	S	DAYTON MOTOR - WELL 3		601.61	601.61
								51-00-612	MAINTENANCE SUPPLIES EQUIPMENT	
VENDOR TOTAL									601.61	601.61
2101 GWORKS										
IM-Inv-630	1		11/21/2019	11/21/2019	I	S	GWORKS LICENSE FEE		3018.15	3018.15
								01-11-512	MAINT. SERVICE-EQUIPMENT	
	2		11/21/2019	11/21/2019	I	S	GWORKS LICENSE FEE		3018.15	3018.15
								51-00-612	MAINTENANCE SUPPLIES EQUIPMENT	
VENDOR TOTAL									6036.30	6036.30
1207 H. CDOPMAN TRUCKING & EXCAVATI										
20190626	1		11/21/2019	11/21/2019	I	S	WATERMAIN BREAK E 3RD ST		1050.00	1050.00
								51-00-615	MAINT SUPP UTILITY SYS	

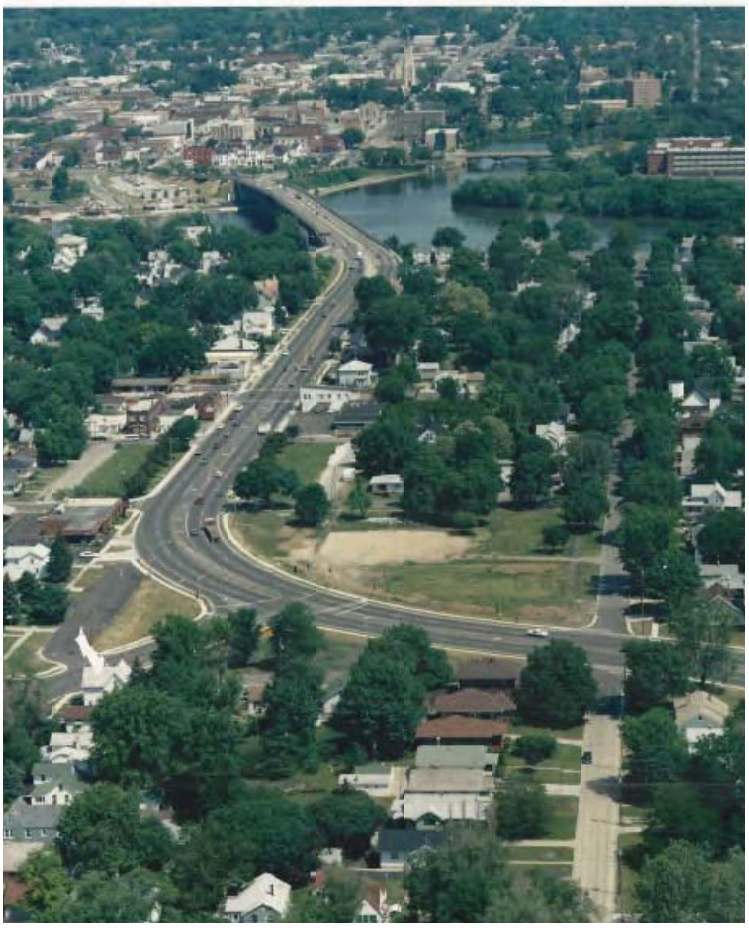
INVOICE/LINE	1099	BK	DUE DATE	INV DT	TY	ST	REFERENCE	CHECK NO		INV AMT / AMT PAID	OPEN AMT / MANUAL
VENDOR TOTAL										1050.00	1050.00
1461 ILLINOIS MUNICIPAL LEAGUE											
2020		1		11/21/2019	I	S	DUES			450.00	450.00
								01-11-561	DUES		
VENDOR TOTAL										450.00	450.00
2099 JIM USKAVITCH											
0000210		1		11/21/2019	I	S	OSMCT INSTALL AND TRAINING			500.00	500.00
								01-21-563	TRAINING		
VENDOR TOTAL										500.00	500.00
2098 KLAUER HTG & A/C											
102919		1		11/21/2019	I	S	WELL 4 REPAIR			489.37	489.37
								51-00-612	MAINTENANCE SUPPLIES EQUIPMENT		
10292019		1		11/21/2019	I	S	WELL 4 HEATER SWITCH			149.17	149.17
								51-00-610	MAINT SUPP BUILDING		
VENDOR TOTAL										638.54	638.54
1606 MENARD, INC.											
44879		1		11/21/2019	I	S	PAPER TOWELS,TP,TOOL BOX			96.13	96.13
								01-41-614	MAINT. SERV. STREETS		
44958		1		11/21/2019	I	S	KEYPAD LOCK			228.00	228.00
								01-11-652	OPERATING SUPPLIES		
		2		11/21/2019	I	S	THERMOSTAT GUARD			6.29	6.29
								01-11-652	OPERATING SUPPLIES		
VENDOR TOTAL										330.42	330.42
1617 MIDAMERICAN ENERGY											
10252019		1		11/21/2019	I	S	UTILITY BILL			64.00	64.00
								01-11-571	UTILITIES		

INVOICE/LINE	1099	BK	DUE DATE	INV DT	TY	ST	REFERENCE	CHECK NO		INV AMT / AMT PAID	OPEN AMT / MANUAL
1617 MIDAMERICAN ENERGY											
10252019	2	1	11/21/2019	11/21/2019	I	S	UTILITY BILL			76.00	76.00
								01-21-571	UTILITIES		
	3		11/21/2019	11/21/2019	I	S	UTILITY BILL			2256.96	2256.96
								01-41-571	UTILITIES		
	4		11/21/2019	11/21/2019	I	S	UTILITY BILL			180.00	180.00
								01-52-571	UTILITIES		
	5		11/21/2019	11/21/2019	I	S	UTILITY BILL			3001.00	3001.00
								51-00-571	UTILITIES		
VENDOR TOTAL										5577.96	5577.96
2102 MIDAMERICAN ENERGY CO											
392982050	1		11/21/2019	11/21/2019	I	S	UTILITY BILL-GENERATOR			403.76	403.76
								51-00-571	UTILITIES		
VENDOR TOTAL										403.76	403.76
1711 PER MAR											
2160805	1		11/21/2019	11/21/2019	I	S	MONITORING WELL 2			133.50	133.50
								51-00-557	COMMUNICATIONS		
2160806	1		11/21/2019	11/21/2019	I	S	MONITORING WELL 3			133.50	133.50
								51-00-557	COMMUNICATIONS		
2160807	1		11/21/2019	11/21/2019	I	S	MONITORING WELL 4			134.16	134.16
								51-00-557	COMMUNICATIONS		
VENDOR TOTAL										401.16	401.16
2071 POLLARDWATER											
0153051	1		11/21/2019	11/21/2019	I	S	HYDRANT DISKS			402.29	402.29
								51-00-653	SMALL TOOLS		
VENDOR TOTAL										402.29	402.29
2100 QCGIS CONSULTING, LLC											
20191106-1	1		11/21/2019	11/21/2019	I	S	INSPECTION OF SURDEX SPRING			750.00	750.00
								01-61-548	OTHER PROFESSIONAL SERVICES		

INVOICE/LINE	1099	BK	DUE DATE	INV DT	TY	ST	REFERENCE	CHECK NO	INV AMT / AMT PAID	OPEN AMT / MANUAL
VENDOR TOTAL									750.00	750.00
1768 QUAD CITY LAMINATING & TROPHY										
102110 1		1	11/21/2019	11/21/2019	I	S	TOM HALL PLAQUE	01-21-928 MISCELLANEOUS EXPENSE	47.95	47.95
VENDOR TOTAL									47.95	47.95
1776 QUILL CORPORATION										
2427871 1		1	11/21/2019	11/21/2019	I	S	GLUE STICKS/FILE JACKETS/TONER	01-11-652 OPERATING SUPPLIES	23.70	23.70
2		1	11/21/2019	11/21/2019	I	S	GLUE STICKS/FILE JACKETS/TONER	01-21-652 OPERATING SUPPLIES	23.70	23.70
3		1	11/21/2019	11/21/2019	I	S	GLUE STICKS/FILE JACKETS/TONER	01-41-651 OFFICE SUPPLIES	78.87	78.87
VENDOR TOTAL									126.27	126.27
1259 THE DAILY DISPATCH										
34027 1		1	11/21/2019	11/21/2019	I	S	AD FOR WATER VALVES BID	51-00-553 PUBLISHING	49.46	49.46
34038 1		1	11/21/2019	11/21/2019	I	S	AD FOR GENERATOR BIDS	51-00-553 PUBLISHING	49.46	49.46
VENDOR TOTAL									98.92	98.92
1953 TRI-CITY ELECTRIC COMPANY										
227505 1		1	11/21/2019	11/21/2019	I	S	107 W 18TH AVE WELL 2 GENERATO	51-00-821 CAPITAL PROJECTS	42871.00	42871.00
227513 1		1	11/21/2019	11/21/2019	I	S	680 E 19TH AVE LIFT STATION	51-00-821 CAPITAL PROJECTS	25427.00	25427.00
VENDOR TOTAL									68298.00	68298.00

ACCOUNTS PAYABLE ACCOUNT LEDGER

INVOICE/LINE	1099	BK	DUE DATE	INV DT	TY	ST	REFERENCE	CHECK NO	INV AMT / AMT PAID	OPEN AMT / MANUAL
2020 WEX										
62067253	1		11/21/2019	11/21/2019	I	S	FUEL		900.01	900.01
								01-21-655	AUTOMOTIVE FUEL/OIL	
	2		11/21/2019	11/21/2019	I	S	FUEL		612.04	612.04
								01-41-655	AUTOMOTIVE FUEL/OIL	
	3		11/21/2019	11/21/2019	I	S	FUEL		22.97	22.97
								01-52-655	AUTOMOBILE FUEL/OIL	
	4		11/21/2019	11/21/2019	I	S	FUEL		314.34	314.34
								51-00-655	AUTOMOTIVE FUEL/OIL	
VENDOR TOTAL									1849.36	1849.36
2034 ZIMMER & FRANCESCON, INC.										
0164513-IN	1		11/21/2019	11/21/2019	I	S	VALUE ASSEMBLY		468.50	468.50
								51-00-652	OPERATING SUPPLIES	
VENDOR TOTAL									468.50	468.50
** REPORT TOTAL**									99240.90	99240.90



Village of Coal Valley

PROFESSIONAL ENGINEERING SERVICES - WATER MAIN REPLACEMENT
NOVEMBER 14, 2019

CONTACT INFORMATION

IMEG Corp.
623 26th Avenue
Rock Island, IL 61201
Office: 309.788.0673

Greg Ryckaert, PE, Client Executive
Email: greg.a.ryckaert@imegcorp.com

November 14, 2019

Mayor Mike Bartels
Village of Coal Valley Board Members
Village Administrator Annette Ernst
900 1st Street, P.O. Box 105
Coal Valley, IL 61240

Dear Mayor and Village Board,

IMEG is happy to help The Village of Coal Valley with the preparation of plans and specifications for bidding purposes for a new water main along Niabi Zoo Road to a new elevated water tower and a possible booster station.

Detailed below are facets of IMEG's differentiators and capabilities we believe relevant to your assessment of IMEG in the selection process for this project.

1. Our Team
   The Core Team we'll use on this project has more than 60 years of combined experience in the design and construction of similar projects. Our proposal includes our best, and most experienced engineers. IMEG, formerly Missman has a long-standing history of work in Coal Valley.

2. Confirmation of Commitment to Provide Timely and Responsive Service.
   IMEG has a proven commitment to seeing projects to completion. We will maintain a cohesive team throughout the project and will provide timely response to the Village of Coal Valley's needs.

3. Familiarity with this project
   Scott Kammerman and Greg Ryckaert are very familiar with this project and have previously coordinated the preliminary design and received an approved engineering report from the IEPA. We also have coordinated an F.A.A. submittal for the Water Tower. We understand the goals the Village of Coal Valley needs to accomplish with this project. In these qualifications, we have attached and aerial image with this preliminary watermain route and water tower location.

4. Budget and Fees
   We are aware of the budget constraints with this project and will update the Village of Coal Valley with periodic cost analysis during the design process. Due to IMEG's previous involvement and interest in this project, we will offer a lower than customary engineering fee to be negotiated with the Village.

5. Existing Workload/Capacity.
   We are currently in position to design a project of the size and complexity of the new water main, new water tower and booster station. We believe this to be of significant

benefit to the project stakeholders. This will result in us having adequate time so there is less design ambiguity and higher-quality documents.

6. Proximity:
   IMEG will support this project with staff from our Rock Island office, which is close proximity to Coal Valley. We believe proximity to the site will be of great value in providing the best possible outcome for the project.

7. Demonstrated ability to provide a full range of professional services
   IMEG offers a wide variety of services in house - We offer a single point of contact to successfully integrate these services to bring efficiency and excellence to the project.

We look forward to the opportunity to continue our relationship with Coal Valley. If you have any questions, please contact us.

Sincerely,

Greg Ryckaert, PE
Client Executive

Company Background

About IMEG

CIVIL ENGINEERING FIRM OVERVIEW

AT-A-GLANCE

- 100 Year Collective History
- Employee-Owned
- 1,300 Employees
- 40+ Locations
- 400+ Licensed Engineers
- 125+ LEED AP's
- $177 Million in Annual Revenue
- Top 10 Engineering Firm in U.S.

SERVICES

- Structural
- Mechanical
- Electrical
- Plumbing
- Fire Protection
- Technology
- Civil
- Survey
- Materials Testing
- Security
- Acoustics
- Architectural Lighting
- Commissioning
- Building Performance Analysis
- Building Certification
- Medical Equipment Planning
- Process Engineering
- Utility Infrastructure

I-74 New Bridge Project - Iowa and Illinois Department of Transportation

With a history that dates back 100 years, IMEG grew from several firms coming together under one uniting vision: people-centered engineering. As a national engineering and design consulting company we've intentionally localized our focus to serve carefully chosen regions and markets, allowing us to put relationships and communities first, without sacrificing expertise.

Our specialties are high-performing building systems, infrastructure, program management and construction-related services, but our secret to success is found in our deep bench of nearly 1,300 team members and challenging ourselves to be thought leaders in the A/E/C industry.

IMEG's civil engineering team has provided professional engineering design services for all types of projects and various market sectors including government (federal, state, and municipal), healthcare, higher education, K-12 education, commercial, corporate, and industrial. Our expanded resources allow us to tap into the expertise of our entire corporation and involve in-house experts from various fields to assist in the design process with our local project partners.

IMEG's civil team includes more than 150 professional engineers and land surveyors. Our team's strength is our willingness to collaborate and reach beyond the status quo, challenging ourselves to be thought leaders and innovators in the A/E/C industry.

CIVIL EXPERTISE

Municipal Engineering / Public Works
Land Development & Surveying
Building Engineering

Services include:

- Assessment Services
- ADA Path of Travel
- Construction Administration
- Drainage and Hydrology
- Erosion Control
- GIS Mapping
- Municipal Infrastructure
- Roadway/Traffic Design
- Streets, Sewer, and Storm Drain
- Paving, Grading & Flood Control
- Utilities Planning and Design
- Water Distribution & Treatment

Civil Engineering

SERVICES AND CAPABILITIES

BENEFITS

- Successful, timely delivery of projects
- Accurate, timely, efficient data collection
- Quality Control and Quality Assurance (QC/QA)
- Involvement from project initiation to project completion
- State-of-the-art technology and equipment
- Latest training and certification
- Most cost-effective methods
- Ability to "fast-track" projects
- Single point-of-contact project management

MUNICIPAL

- Design, plans, and bid documents
- Engineering review
- Utility design and planning
- Studies
- Environmental
- Permitting
- Construction services
- Funding administration
- Conformance with federal, state, and local agencies

TRANSPORTATION

Transportation Design

- Bridge Design and Rehabilitation
- Interstates and interchanges
- Major two-, four-, and six-lane highways
- Roads, streets, and rail design
- Signal design
- Traffic operations design

Transportation Services

- Traffic control systems analysis, design, and implementation
- Subsurface Utility Engineering (SUE) Hydraulic and design reports
- Studies
  - Feasibility
  - Location Design
  - Intersection Design Studies (IDS)
  - Pavement Condition
  - Traffic Operations
  - Traffic Signals
- Environmental Assessments (EAs)
- Right-Of-Way plats, plans, and descriptions
- In-Service Bridge Inspection

LAND SURVEY

- Surveys:
  - Easement and Right-Of-Way
  - ALTA/ACSM land title
  - Construction and layout
  - Aerial photo control, topographic, property, and boundary surveys
- 3D machine control and 3D file preparation
- Flood elevation certificates
- Letter of Map Amendment (LOMA) applications
- Global Positioning System (GPS) control surveys

LAND ACQUISITION

- Project pre-planning
- Cost estimating
- Route selection
- Stakeholder meetings
- Title research
- Appraisal coordination
- Permitting
- Negotiation/acquisition
- Condemnation/eminent domain support
- Relocation assistance
- Document preparation and recording
- Project database management
- Quality Assurance/Quality Control
- Property management
- Utility cross-easements
- Scheduling
- Adherence to the Uniform Relocation Assistance and Real Property Acquisition Policy of 1970

LAND DEVELOPMENT

- Field layout and control verification
- Property/boundary/topographic surveys
- Aerial control
- Construction staking
- Easements
- Wetland mitigation
- Feasibility studies
- Conceptual planning and design
- Coordination with municipalities
- Construction plans and documentation
- Technical specifications
- Site grading
- Utility coordination
- Storm sewer and storm water detention design
- Sanitary sewer design
- Water service and fire protection
- Permitting (federal, state, and local)
- American with Disabilities Act (ADA) compliance
- Construction administration

CONSTRUCTION

- Project management
- Material specifications and material testing
- On-site observation and documentation
- Cost estimating
- Project coordination
- Plan compliance
- Cost tracking during construction
- Drawing documentation

Experience and Qualifications

Local Water Main

QUAD CITIES

Village of Coal Valley Water System Improvements

SE Quad WM Replace East 9th Ave, 5th St, Monmouth, IL

- Engineering and Construction Inspection Services for SE Quadrant Water Main East 9th Ave & South 5th St. from Main Street to South 5th IMEG provided an IEPA permit for the water main.

Roos Hill Road Water Main Extension, Geneseo, IL

- IMEG provided an Illinois Environmental Protection Agency (IEPA) permit application for a 12" water main extension from JF Edwards Industrial Park (IL Route 82) along Roos Hill Road to the connection at the Geneseo Country Club. This completed a water main loop at the north side of the City. We prepared final plans and specifications for construction. The project was initiated in 2012 and a portion of the project was completed from the east end to service a new home. The remaining portion was put on hold until 2014, when a casing construction project crossing Route 82 was bid. Existing utility conflicts resulted in cancelling the project indefinitely. We provided observation of the project for proper backfill and surface restoration. As City Engineer, we documented the completion of the project.

Green River Watermain Crossing, Geneseo, IL

- Provided planning services for the City of Geneseo to determine the best location for a new well. A new watermain was needed to connect the new well to the existing water supply. IMEG provided plans, specifications, and bid documents for a 12" diameter watermain that crossed under the Hennepin Canal and Green River. Permits from local and state agencies were secured for construction of the well and the watermain. Also provided was construction administration and observation services.

13th Street & 5th Avenue Water Main Relocation, Rock Island, IL

- IMEG provided site evaluation; design and civil engineering plans; specifications; and bidding documents for the construction of an 8"" water main along 13th Street in Rock Island.

Ford Road Water Main, Geneseo, IL

- IMEG provided an Illinois Environmental Protection Agency (IEPA) permit application for a 12' water main extension from Chicago Street along Ford Road to the new location of a Baptist Church development. The City needed a larger sized water main for future

Water Main Design/CDAP, Avon, IL

- IMEG produced plans and specifications for 9,000 feet of water main replacement along with IEPA, IDOT, and BNSF Railway permit applications. IMEG provided bidding services and guidance for the 2016 CDAP water main project along with construction observation. This project consisted of replacement of 8,447 feet of deteriorated cast iron water main with PVC water main; 2,092 feet of 8" water main, 5,926 feet of 6" water main, 429 feet of 4" water main, and gate valves, fire hydrant, and appurtenances.

Water System Improvements, Bishop Hill, IL

- IMEG provided planning services for funding application for water main and water tower replacement. After obtaining USDA funding, IMEG started survey services and preliminary layout of the water main that could best serve the Village of Bishop Hill. Once approval was received, we provided plans, specifications, permits from the IEPA and other state agencies for the construction of over 4,700-lf of water main and a 50,000 gallon water tower. These plans were approved by the USDA and IEPA and was bid by contractors. IMEG is performing construction administration and inspection services.

Local Water Tower

QUAD CITIES

Grand Ridge Elevated Tankgrand ridge

New Water Tower, Tonica, IL

- Prepare design of a 1150,000 gallon water tower including soil borings.

7th Street Water Tower Replacement, Moline, IL

- The first phase of this project involved IMEG performing a site study. Discussing the existing conditions that may have affected the design and construction of the 500,000 gallon water tower, such as power lines, street closure, tree removal, etc. Also, the study described design alternatives for the City's review. Subsequent phases of this project included a subsurface investigation, layout and development of plans and specifications for the new water tower, construction management and contract administration for the construction phases, and responding to final closure issues regarding the old tower and completion of the new one.

New Water Tower, Buda, IL

- Construction of a new 100,000 gallon elevated tank, installing transmission main from the new water tower to the system, electrical controls, plumbing, and demolition of the existing stand pipe and other appurtenances.

New Ground Storage Tank, Woodhull, IL

- IMEG performed engineering services for construction of new 50,000-gallon ground storage tank for the water system.

New Elevated Tank, Oglesby, IL

- Prepared design plans, bid documents, and specifications for construction of a 300,000 gallon elevated spheroid water tank, a standby generator, and transmission main, and demolition of the existing 100,000 gallon tank. Provide construction observation services for the complete project.

Elevated and Ground Tank (Well No. 2 and Well No. 4), Coal Valley, IL

- IMEG provided engineering services for the preparation of plans and specifications for a 32,000-gallon ground storage tank at Well No. 2 site and Well No. 4 site painting and repairs. Prepared bid documents, plans, and specifications for bid documents to paint the 100,000-gallon elevated water storage tank at Well No. 2. This involved the bid opening process and award process. Performed construction inspection services for ground tank and elevated tank.

Elevated Tank, Grand Ridge, IL

- Prepared plans and specs for the design of a 100,000 gallon spheroid elevated tank to be situated on the site of the current Village Hall and maintenance garage.

Storage Tank, Alpha, IL

- IMEG designed a 10,000-gallon harvester ground storage tank and obtained an Illinois Environmental Protection Agency (IEPA) construction permit.

City of East Moline

WATER MAIN EXTENSION 10TH AND 1ST STREET

CIVIL | SANITARY SEWER | WATER MAIN | CONSTRUCTION INSPECTION

10th Street and Water Main, East Moline, IL

IMEG performed the design and bid phase services for this project which included 3.000-ft of water main replacement and 4 blocks of concrete street reconstruction. Work involved plan preparation, permitting and bidding/ contract document preparation to utilize MFT funds for eligible work items. Detailed phasing of construction was necessary in the plans as the water mains replaced were the direct transmission mains from the elevated storage tanks. Coordinated with IDOT to ensure the design and plans met MFT standards. IMEG provided construction engineering services, including construction staking, construction observation, and construction administration.

1st Street Water Main

Prepare plans and specifications for water main replacement at 1st Street East Moline between 16th Avenue and 24th Avenue. Included 2,140-lf of 8" water main, 500-lf of 6' water main directional bored, 1,410-sy of reinforcement mat. Provided project administration and construction observation.

Location
East Moline, IL

Case Creek Water Main/ Sanitary Sewer

WATER MAIN EXTENSION 47TH AND 73RD

CIVIL | **SANITARY SEWER** | **WATER MAIN** | **CONSTRUCTION INSPECTION**

IMEG provided sanitary sewer and water main engineering services to the Industrial Park at 47th Street and 73rd Avenue. The design of the sanitary sewer system included 3,000-lf of 12" DIP gravity sewer; 9,700-lf of 8" DIP force main; two lift stations and electric service design. The sanitary sewer route connects to the existing sanitary sewer pumping station under the 27th Street Bridge and follows the South Shore Drive Right-of-Way, crossing I-280 and Airport Road. We made a connection for the new Hotel at the Quad City International Airport (QCIA). The route continues along the south side of Airport Road, across Case Creek, and follows the east side of the levee adjacent to Case Creek through QCIA, until it terminates at 47th Street and 73rd Avenue. We designed a maintenance road for city access along the east side of Case Creek. Also designed was a water main system that included 8,952-lf of 16" DIP water main; valves; tees; bends; and fire hydrants from Deere Hangar to 47th Street and 73rd Avenue. The water main connects at the existing 16" water main at Deere Hangar and extends across Case Creek, following the east side of the levee adjacent to the Creek through QCIA, until it terminates at 47th and 73rd. A maintenance road for city access was also included for this design. Also part of this project was a topographic survey location of Right-of-Way along Airport Road, South Shore Drive, and 27th Street, and the Milan Beltway. Prepared plans and specifications for the Illinois Environmental Protection Agency (IEPA); Illinois Department of Transportation (IDOT) permits and bidding; Storm Water Pollution Prevention Plan (SWPPP); and Notice of Intent (NOI). Submitted all construction permit applications and soil borings at key locations and submitted IDOT highway permits to determine bedrock elevations.

Location
Moline, IL

Village of Smithfield

WATER MAIN EXTENSION

CIVIL | WATER MAIN

Bernadotte is an unincorporated Village located in Fulton County on the Spoon River about 5-miles south of Smithfield, Illinois. The Bernadotte area became a booming economic region in the 1940's when a prisoner of war camp, Camp Ellis, was constructed to house German and Austrian prisoners of war. The Camp housed approximately 5,000 prisoners of war and also 125,000 soldiers were trained at the facility. The facility opened in 1943 but closed in 1945. A dam was constructed in Bernadotte to enable a water plant intake to be built. A million gallon underground storage tank, pumping facility and water plant was constructed for the fresh water to serve Camp Ellis. After the camp closed, a number of people stayed. The water plant closed and the residents have survived on individual water wells ever since.

Among the eight projects IMEG identified and were familiar with and had knowledge of through its relationship with various clients was the water main extension project from Smithfield to Bernadotte. The threat to health and safety criteria was met due to the individual wells being flooded and contaminated due to the Spoon river flood waters. IMEG made contact with the Village of Smithfield to ask if they would be interested to sponsor the project and be the owner/operator of the water main extension. Once the Village of Smithfield made the commitment, IMEG worked unknowing whether it would be compensated to revise the plans and easements to reduce the project to fit within the budget, and prepared the resubmittal of the permit applications to IEPA, County Highway and US Army Corps of Engineers. The project was quickly resubmitted to the permitting agencies and numerous easements were revised. After the permits and easements secured, the project was submitted for the grant and the project was awarded $585,000 in grant money.

Location
Smithfield, IL

Village of Coal Valley

PAST EXPERIENCES

Niabi Zoo Sanitary Sewer Collection System, Coal Valley, IL

- IMEG provided engineering services for the sanitary sewer collection system inside Niabi Zoo. Services included site visits and consultations with Forest Preserve District representatives and Zoo staff. IMEG performed topographic survey and prepared final design plans and specifications. IMEG also applied for Illinois Environmental Protection Agency (IEPA) permits and submitted a notice to the State Historic Preservation Agency and the Illinois Department of Natural Resources (IDNR) for Endangered Species and Natural Areas Preservation.

1st Street Bridge Rehabilitation, Coal Valley, IL

- IMEG provided design of this 3-span continuous steel rolled beam bridge rehabilitation project. The bridge is 111'-6" back-to-back of abutments, with a width of 36'-0", and a sidewalk on one side only. The project consisted of the removal and replacement of the concrete deck; bearing removal and replacement; cleaning and painting the steel and channel excavation; and riprap replacement. This was all completed under stage construction. Also included was a feasibility study and load ratings; preparation of contract documents; and structural consultation during the construction phase.

300,000-Gallon Elevated Tank (Painting), Coal Valley, IL

- IMEG prepared plans and specifications, using local funds, for various bike path locations that included contract bidding for seal coat; micro-surfacing; heat scarifying; and Hot Mix Asphalt (HMA) overlay.

8th Avenue Drainage, Coal Valley, IL

- The 8th Avenue drainage project consisted of grading in a drainage swale, or ditch, behind houses in a drainage easement to convey and channelize the storm water from an existing pipe. The downstream area was graded to match the existing pipe with an end section. The project was funded with Village funds (100%). Phase I Design/Construction Plans: Performed topographic and boundary survey, completing design in accordance with Illinois Department of Transportation (IDOT) design standards and specifications, and prepared construction plans for the drainage swale or ditch. Also prepared were a summary of quantities for the project, as well as a final cost opinion. IMEG answered contractor's questions during bid period; attended bid opening; wrote a letter of recommendation for the lowest responsive bidder; and completed a bid tab. Phase II Construction Administration/ Construction Observation and/or Construction Staking: Conducted a pre-construction meeting; provided construction observation services to include daily reports; documented pay requests; answered requests for information from the contractor during construction; coordinated and attended final walk-through between the Village of Coal Valley and contractor; and provided punch list to contractor. Conducted final project close out with the required documentation.

Coal Valley Municipal Services, Coal Valley, IL

- IMEG performed general consulting engineering services for various projects in Coal Valley.

Coal Valley Tank Inspections, Coal Valley, IL

- IMEG performed Inspections on the Village's water storage tanks.

Elevated and Ground Tank (Well No. 2 and Well No. 4), Coal Valley, IL

- IMEG provided engineering services for the preparation of plans and specifications for a 32,000-gallon ground storage tank at Well No. 2 site and Well No. 4 site painting and repairs. Prepared bid documents, plans, and specifications for bid documents to paint the 100,000-gallon elevated water storage tank at Well No. 2. This involved the bid opening process and award process. Performed construction inspection services for ground tank and elevated tank.

Inflow/Infiltration (I/I) Study (Phase I), Coal Valley, IL

- IMEG provided the Village of Coal Valley a sanitary sewer Infiltration/Inflow (I/I) study. Phase I involved smoke testing; manhole inspection; and sewer map update. We met with the Village to review a data collection plan and schedule a distributed informational door hanger to residents prior to testing. We conducted a smoke test on 14.5 miles of sanitary sewers and inspected 350 manholes in the entire Village. The inspection of the manholes was an inventory of materials

Past Experiences

VILLAGE OF COAL VALLEY

and pipes; structural conditions; evidence of surcharge; and evidence of defects that allowed infiltration of storm water or ground water. A digital camera was used to document the overall manhole and pipes. We conducted a GPS of all of the sanitary sewer manholes to update the sewer map. All data obtained was entered into the GIS System for future use. Exhibits and sewer maps were created showing where the smoke was observed. Manhole and pipes were labeled. Results were compiled of the smoke testing and manhole inspection. We performed analysis and met with the Village to review smoke testing results and manhole inspections.

Sanitary Manhole Rehabilitation, Coal Valley, IL

- The sanitary manhole rehabilitation project consisted of determining the proper rehabilitation (either an epoxy or PVC liner, or a new lid and chimney seal to eliminate Inflow/Infiltration (I/I) from the manhole). There were 60 manholes rehabbed in the drainage ways and flood plain. The project was funded with 100% village funds. Phase I: Design/Construction Plans. Completed design in accordance with standard industry specifications. Prepared construction plans for the proposed manhole lining or chimney seal and new lid. Prepared a summary of quantities, as well as a final cost opinion. Attended a meeting with the Village to discuss plans and permits; answered contractor's questions during bid period; attended bid opening; wrote a letter of recommendation for the lowest responsive bidder; and completed a bid tab. Phase II: Construction Administration/Construction Observation. IMEG conducted a pre-construction meeting, and provided construction observation services that included daily reports, documentation and pay requests for the Village. Answered requests for information from the contractor during construction. Coordinated and attended the final walk-through between the Village of Coal Valley and contractor, and provided a punch list to contractor.

West 3rd Street and East 3rd Street, Coal Valley, IL

- IMEG performed design work for this locally funded project that included construction inspection and construction administration; materials documentation; and materials testing.

Coal Valley Motor Fuel Tax (MFT), Coal Valley, IL

- IMEG provided plans and specifications for bidding purposes for the Village of Coal Valley's MFT program. Work included resurfacing, curb and gutter, and miscellaneous items.

Coal Valley Water System Improvements, Coal Valley, IL

- IMEG prepared an Illinois Environmental Protection Agency (IEPA) planning document; survey; design; and conducted construction observation/administration on approximately four miles of water main and construction of a new water tower.

Water System Upgrade Engineering Report, Coal Valley, IL

- IMEG completed and submitted an engineering report to the Illinois Environmental Protection Agency (IEPA) in connection with an IEPA loan application for the Coal Valley water system upgrade.

Personnel

Greg Ryckaert, PE, LEED AP

EXPERIENCE
32 Total, 30 with IMEG

EDUCATION
Southern Illinois University, BS Civil Engineering 1986

REGISTRATIONS
Professional Engineer 1995
Arizona, Wisconsin
LEED AP 2008

AFFILIATIONS
Bi-State Regional Trails Committee
11/31 Business Association
American Council of Engineering Companies (ACEC)
American Public Works Association (APWA)
American Society of Civil Engineers (ASCE)
Black Hawk College Foundation Board
Development Association of Rock Island (DARI)
Illinois Municipal League (IML)
National Society of Professional Engineers (NSPE)
Renaissance Rock Island
Society of American Military Engineers (SAME)
United States Green Building Council (USGBC)
Western Illinois University - Civil Engineering Advisory Committee

Client Executive

Greg is a Client Executive for government and municipal clients in the Quad Cities region. He represents various communities in Illinois, acting as their City Engineer. He has extensive experience developing budgetary planning for capital improvement and strategic planning for municipalities, preliminary and final plans and specifications for various land development, municipal, and transportation projects. Greg's specialties include municipal street design, municipal sewer and water improvements, storm water management design, site development, and construction engineering. Clients rely on Greg to provide sound economic advice during the initial stages of project development. Process is a priority for Greg. He believes that identifying the right people, and developing the right process, leads to project success. Greg represents the company at community events, various boards, and a variety of public meetings.

PROJECT EXPERIENCE

Village of Coal Valley, Coal Valley, IL
- General Engineering Services

Green River Water Main Crossing, Geneseo, IL
- A new water main was needed to connect the new well to the existing water supply. IMEG provided plans, specifications, and bid documents for a 12" diameter water main that crossed under the Hennepin Canal and Green River. Also provided were construction administration and observation services.

Case Creek (47th & 73rd) Water Main/ Sanitary Sewer, Moline, IL
- Sanitary sewer and water main engineering services to the Industrial Park at 47th Street and 73rd Avenue

Roos Hill Road Watermain Extension, Geneseo, IL
- Provided an Illinois Environmental Protection Agency (IEPA) Permit Application for a 12' Watermain Extension

Ford Road Watermain, Geneseo, IL
- Provided an Illinois Environmental Protection Agency (IEPA) Permit Application for a 12' Watermain Extension

Centre Station (Metrolink Transit Station), Moline, IL
- New Ground Level Bus Terminal that Included Paving and Grading Plans and Layout of Site Utilities, Storm and Sanitary Sewer, and Watermains

IMAX Theater, Davenport, IA
- New Roadway Parking Lots, Storm Sewer, Sanitary Sewer, and Watermain

South State Street Reconstruction, Geneseo, IL
- Street Reconstruction (Gateway to City) that Involved Removing Existing Concrete Street, Replacing with a New PCC Pavement Section, New Landscaped Median, Storm Sewer, Inlets, and Street Lighting. Removed and replacement of water main and sanitary sewer: $3.7M

Robinson Drive Reconstruction, Geneseo, IL
- Street Design and Drainage Improvements for Existing Roadway that was in the 100-Year Floodplain, Leaving Residents Unable to Use Robinson Drive when Leaving Their Home During Flood Conditions, Causing a Safety Concern. Provided Plans, Bidding Documents and a Hydraulic Study to Raise the Road a Minimum of One Foot Above the 100-Year Flood

Scott Kammerman, PE, GP

EXPERIENCE
31 Total, 31 with IMEG

EDUCATION
Southern Illinois University, BS
Engineering (Mechanics and Materials)
1986

REGISTRATIONS
Professional Engineer 1991
Iowa, Illinois
Groundwater Professional 1997
Iowa

AFFILIATIONS
American Society of Civil Engineers (ASCE)
American Water Works Association (AWWA)
Illinois Society of Professional Engineers (ISPE)
National Society of Professional Engineers (NSPE)
Water Environment Federation (WEF)

Project Manager

Scott is responsible for design, project management, construction observation, and various types of environmental, water, and waste water projects. He also supervises landfill permit updates and Leaking Underground Storage Tank (LUST) related projects in Iowa. Scott has experience in the planning, design, and construction observation of sanitary sewers and pumping stations, sewage treatment facilities, water mains, potable water pumping facilities, water storage, and treatment facilities. He is familiar with modeling techniques for water distribution systems, stream modeling and design, permitting, and closure for landfills.

PROJECT EXPERIENCE

Coal Valley, IL
- Painting and Repairs for Existing 300,000 Gallon and 100,000 Gallon Elevated Tanks

Water System Improvements, Bishop Hill, IL
- Design elevated water tank, new well, and new watermains.

SE Quad WM Replace East 9th Ave 5th St, Monmouth, IL
- Engineering Services for SE Quadrant Water Main East 9th Ave & South 5th St. from Main Street to South 5th

Case Creek Trails Business Park, Moline, IL*
- Design and Construction Engineering for Approximate 4,600-lf, 16" Watermain Extension to Serve Deere & Company New Hangar Project

*City of Moline took over project which included 3 sanitary pumping stations

Green River Watermain Crossing, Geneseo, IL
- Prepared Plans, Specifications, and Bid Documents for New Watermain that Crosses Green River and Hennepin Canal, Connecting New Well to Existing Watermain

Roos Hill Road Watermain, Geneseo, IL
- Provided IEPA Permit Application for 12' Watermain Extension

Ford Road Watermain Extension, Geneseo, IL
- Provided IEPA Permit Application for 12' Watermain Extension

South Main Street Watermain Replacement, Monmouth, IL
- Watermain Replacement Approximately 3,000-lf of 10" PVC Watermain Replacement Watermain was Directional Drilled, and Surface Disruption Minimized

Watermain Extensions - Moline, Il
- 24,600' Watermain Extension Throughout City Ranging in Size from 8" To 24"
- 24" Watermain Extension 8,700' Along 12th Avenue From 19th Street To 41st Street
- 16" Watermain Extension 2,800' Along 41st Street From 12th Avenue To 23rd Avenue
- 16" Watermain Extension 2,600' Along Route 6 And Route 150
- 8" Watermain Extension 1,000' Along 29th Street
- 12" And 8" Watermain Extension 6,250' Along Coaltown Road

Jack Kusek, PE, PLS

Senior Civil Engineering Specialist/Quality Control

Jack is responsible for planning, project design, preparation of plans and specifications, field inspection, preparation of payment estimates and other related documentation, construction staking and surveying, meeting with and reporting to clients, supervision of design personnel, and project management.

EXPERIENCE
42 Total, 29 with IMEG

EDUCATION
Bradley University, BS Civil Engineering, 1979

REGISTRATIONS
Professional Engineer in Illinois
Professional Engineer in US Virgin Islands
Professional Land Surveyor in Illinois
IDOT certification for bridge inspection-Program Manager
Water Treatment Plant - Class A

AFFILIATIONS
Illinois Society of Professional Engineers
National Society of Professional Engineers
Illinois Professional Land Surveyors Association
American Council of Engineering Companies
CECI – Illinois Environmental Committee

PROJECT EXPERIENCE

City of Oglesby
- Prepared design plans, bid documents, and specifications for construction of a 300,000 gallon elevated spheroid water tank, a standby generator, and transmission main, and demolition of the existing 100,000 gallon tank. Provide construction observation services for the complete project.

Village of Budda
- Project consisted of constructing a new 100,000 gallon elevated tank, installing a transmission main from the new water tower to the system, electrical controls, plumbing, demolition of the existing stand pipe, and other appurtenances.

Village of Wyanet
- Inspected existing water tower and prepared written report. Prepared design plans, bid documents and specifications for construction of a 150,000 gallon elevated water tower, standby power, piping and demolition of the existing tower and associated facilities.

Village of Mark
- Prepared plans, specifications and estimate for the construction of a 100,000 gallon elevated tank or for the relocation of one with at least 100,000 gallon capacity.

Village of Tonica
- Collected topography and prepared plans and specifications for water main extension and two (2) highway boring from the new water tower to the fire station. Also included was permit application from EPA, IDOT, and LaSalle County. Provided bidding services. Performed construction services for the 1,300 l.f. of 8" water main and boring.

Village of Manlius
- Prepared design for a new sanitary sewer collection system for the entire Village. Project consisted of approximately 17,700 l.f. of 8" sanitary sewer, 1,500 l.f. of 4" force main, 3,400 l.f. of 6" service laterals, one (1) pump station, and a 0.07 MGD recirculating sand filter treatment system, surface repairs and restoration, and all other necessary and incidental construction. Provided bidding services for the project. Performed construction administration services for the complete project. Provided construction observation services.

City of Kewanee
- Provided engineering services relating to the replacement of 3,000 l.f. of existing water main in Kewanee, IL

Reid Borcich, PE

EXPERIENCE
24 Total, 6 with IMEG

EDUCATION
Illinois Institute of Technology, BS Electrical Engineering 1987

REGISTRATIONS
Professional Engineer 2007
Wisconsin

Lead Electrical Engineer

Reid brings more than 20 years experience as a consulting engineer. As a Lead Electrical Engineer and Project Manager, he has extensive knowledge of building codes, construction techniques, and project requirements for virtually all building types. Reid has been actively involved in all aspects of design and construction for medium and low-voltage power distribution systems, standby and critical power systems, lighting and lighting control systems, fire alarm systems, nurse call systems, telephone, data cabling, and lightning protection systems. Reid specializes in power distribution and lighting for industrial and healthcare facilities.

PROJECT EXPERIENCE

City of Rochelle, Rochelle, IL
- 6,000-sf New Water Treatment Facility: $3.4M

Village of Oregon, Oregon, IL
- 2,000-sf New Domestic Water Well Buildings at Three Sites: $5.5M

Village of Stillman Valley, Stillman Valley, IL
- Wastewater Treatment Plant Upgrades: $5M

Village of Walnut, Village of Walnut, IL
- Wastewater Treatment Plant Upgrades: $2.5M

Rockwell Collins, Cedar Rapids, IA
- Building 105 Chilled Water and Condenser Water Upgrade: $1.2M

City of East Moline, East Moline, IL
- New Emergency Power Generator for Engineering and Maintenance Building: $150K

City of Fulton, Fulton, IL
- New Well #4, #5, and Filter Building

City of Polo, Polo, IL
- South Congress Lift Station Renovation and new Sludge Drying Bed/Sludge Storage 4,500 sf Building: $220K

Confidential Industrial Manufacturer, IL
- Substation Replacement: Confidential
- Battery Charging Area: Confidential
- New Dock Doors: Confidential

Confidential Industrial Manufacturer, IA
- 9,600-SF Dock Expansion: Confidential
- New Central Compressed Air System - Part of Master Services Agreement: Confidential
- WAS Building Temporary Substation - Part of Master Services Agreement: Confidential
- Building Z and T10 New and Replacement Substations - Part of Master Services Agreement: Confidential

Chad Johnson, PLS, SR/WA

EXPERIENCE
27 Total, 27 with IMEG

EDUCATION
Black Hawk College, AAS Civil Technology
1994

REGISTRATIONS
Illinois Professional Land Surveyor
Iowa Professional Land Surveryor
Illinois Real Estate Managing Broker
Iowa Real Estate Broker
IRWA - SR/WA

AFFILIATIONS
Illinois Professional Land Surveyors Association (IPLSA) - Two Rivers Chapter
Society of Land Surveyors of Iowa (SLSI)
International Right-of-Way Association (IRWA) - Region 3; Chapter 41
Colona Planning Commission

Land Surveyor / Land Acquisition

Chad is responsible for managing the surveying and land acquisition of real property and relocation assistance for local, state, and federal projects. This involves supervising the research, boundary, and topographic surveys for subdivision, site development and right-of-way projects, and preliminary acquisition studies. He prepares right-of-way and easement plats and legal descriptions, and conveyance documention. Chad is also experienced in right-of-way and easement negotiations, relocation assistance, eminent domain assistance, public involvement hearings, and project compliance review under the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended.

PROJECT EXPERIENCE

Village of Coal Valley, Coal Valley, IL
- Provided various topographic survey and easement plats as required

South State Street, Geneseo, IL
- Prepared Right-of-Way and Easement Plats and Legal Descriptions, and Performed Acquisition Negotiations for Four Commercial and 48 Residential Properties

11th Street Improvements, Rock Island, IL
- Prepared Right-of-Way and Easement Plats and Legal Descriptions, and Performed Acquisition Negotiations for 10 Commercial and 15 Residential Properties

Avenue of the Cities Streetscaping, Moline, IL
- Performed Negotiations to Secure Right-of-Way and Temporary Construction Easements On 21 Parcels for Streetscaping Project

Us 67 and Clover Leaf Drive, Monmouth, IL
- Performed Topographic Survey and Determined Right-of-Way, Prepared Right-of-Way and Easement Plats and Descriptions for Parcel Takes, and Performed Land Acquisition Negotiations

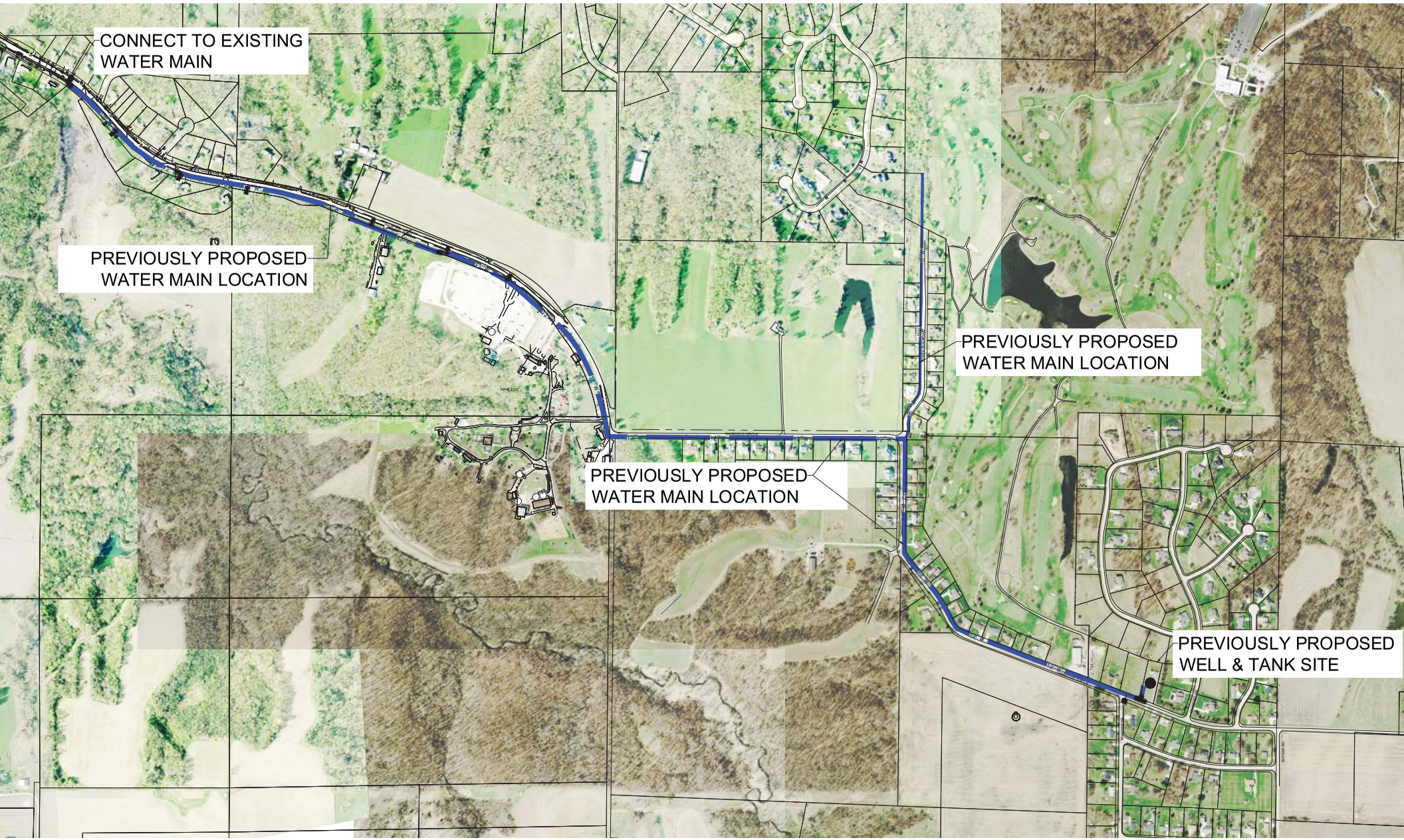
9th Street/11th Street Corridor Study, Rock Island, IL
- Prepared Right-of-Way and Easement Plats and Descriptions for Parcel Takes and Performed Land Acquisition Negotiations

IL Route 84 (IDOT), Geneseo, IL
- Determined Right-of-Way and Existing Subdivision Boundary Lines, and Prepared Plat of Survey to Show Differences Between Recorded Data and Field Measurements

PSC Sanitary Sewer, Kewanee, IL
- Performed Title Research, Determined Existing Property and Easement Lines, Prepared Easement Plats and Legal Descriptions for Land Acquisition, Coordinated Appraisals, and Performed Acquisition Negotiations for Three Residential and Three Commercial Parcels

Watermain Design

IMEG


CONNECT TO EXISTING WATER MAIN
PREVIOUSLY PROPOSED WATER MAIN LOCATION
PREVIOUSLY PROPOSED WATER MAIN LOCATION
PREVIOUSLY PROPOSED WATER MAIN LOCATION
PREVIOUSLY PROPOSED WELL & TANK SITE

Village of Coal Valley
Niabi Zoo Road Water Main/Water Tower
Design Engineering Services

Hutchison Engineering, Inc.

Contact Person: W. Shane Larson (309) 368-0689 slarson@hutchisoneng.com

1518 5th Ave, Suite 302, Moline, IL 61265

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Hutchison Engineering, Inc.
Since1945
Jacksonville • Quad Cities • Peoria • Shorewood

November 11, 2019

Annette Ernst
Village Administrator
Village of Coal Valley
900 1st St.
Coal Valley, IL 61240

Re: RFP – Niabi Zoo Road – Water Main/Water Tower – Design Engineering Services

Dear Ms. Ernst:

Hutchison Engineering Inc. (HEI) is pleased to submit this Statement of Interest and Qualifications. HEI is a full service civil engineering firm that has served clients throughout Illinois for over seven decades. HEI is known as a firm that has successfully completed some of the region's bigger civil engineering projects but also routinely partners with county municipalities and other public agencies on projects of all sizes. Each project is treated with the same attention to detail and professional project management.

HEI routinely works with municipalities, water and sanitary districts, and county highway departments. We are proud to say that a majority of our work comes from long-standing clients. These clients continue to utilize HEI for their engineering needs for the following reasons:

Depth and Experience of Staff. Our staff of 28 engineers and 22 engineering technicians are consistently involved in large municipal, sanitary and water district, and site development projects. Our four offices in Moline, Peoria, Shorewood, and Jacksonville routinely provide survey, planning, design, and construction inspection services for a wide range of clients. We have 8 engineers on staff that have held positions at state agencies. These staff members allow HEI to maintain outstanding relationships with these state agencies that consistently proves to be beneficial for our clients in getting timely state agency approvals and permits.

Project Management. I will be the Project Manager for your project and manage the project out of our Moline office. I have 27 years of experience. I understand that each project/client is unique and requires special attention based on their needs. I will work closely with the Village to ensure that all project needs are met, use my past experience and working relationships with the IEPA to effectively coordinate with them to keep your project on schedule, and provide technical expertise during each phase of the project. I am widely respected for my ability to communicate effectively with all stakeholders to facilitate timely decisions and quick resolutions to issues. I enjoy the interaction with clients, project stakeholders, and contractors. I will use this passion and experience to ensure that your project stays on schedule and within budget.

Firm Longevity. Hutchison Engineering has been in business since 1945. This longevity brings confidence and stability to our clients.

Client Relations. We value our relationships with all of our clients regardless of the type or size of project. We strive to not only complete projects but to build career-long relationships based on trust and respect. Our goal is to be an extension of your staff so that the relationship between your staff and our staff is seamless.

Hutchison Engineering, Inc.
Since1945
Jacksonville • Quad Cities • Peoria • Shorewood

To strengthen our team, we plan to utilize Giffin Engineering to assist with different design aspects of the project. Giffin Engineering specializes in water and wastewater design. The two firms routinely work together on projects so we can guarantee a seamless design team.

The Request for Qualifications does not specifically ask for construction inspection services. Knowing that you will need construction inspection services, we have included our construction inspection qualifications for your consideration.

A majority of Hutchison Engineering's clients are similar in size to Coal Valley. Unlike larger firms which are distracted by larger clients with larger projects, we appreciate working with communities of your size and value them as clients. We are quickly building a reputation of being responsive and were recently praised by one Quad City area client for showing "Unsolicited Initiative".

Hutchison Engineering Inc. appreciates the opportunity to submit these qualifications. We look forward to working with you and continuing our relationship with the Village of Coal Valley. We have the technical expertise and project management experience that you are seeking to successfully complete your project.

If you have any questions or need additional information, please do not hesitate to contact me at (309) 368-0689 or slarson@hutchisoneng.com.

Very truly yours,

Hutchison Engineering Inc.

W. Shane Larson, P.E.

Vice President

1518 5th Ave., Suite 302 • Moline, Illinois 61265
Phone: (309) 517-3899
www.hutchisoneng.com • info@hutchisoneng.com

1. Company Profile

Hutchison Engineering, Inc. (HEI) is a general civil engineering firm serving clients throughout Illinois for over seventy years. The firm was established in 1945 in Jacksonville, Illinois and has expanded to include offices in Moline, Peoria, and Shorewood. The staff at HEI includes licensed professional land surveyors, professional engineers, structural engineers, professional transportation operations engineers, and certified technicians. Certifications include: Stormwater Management, Erosion Control Practices, Professional Traffic Operations, Construction Documentation, and Materials Testing. HEI is licensed to offer engineering services in Illinois, Indiana, Iowa, and Missouri.

HEI has successfully completed some of the region's bigger civil engineering projects but also routinely partners with IDOT, local public agencies, architects, and private companies on projects of all sizes. Each project is treated with the same attention to detail and professional project management. We are widely respected for our highway and street designs, structural designs, site development designs, surveys, aviation services, and construction inspection services. HEI has received engineering awards from IDOT, the American Public Works Association, and the American Council of Engineering Companies.

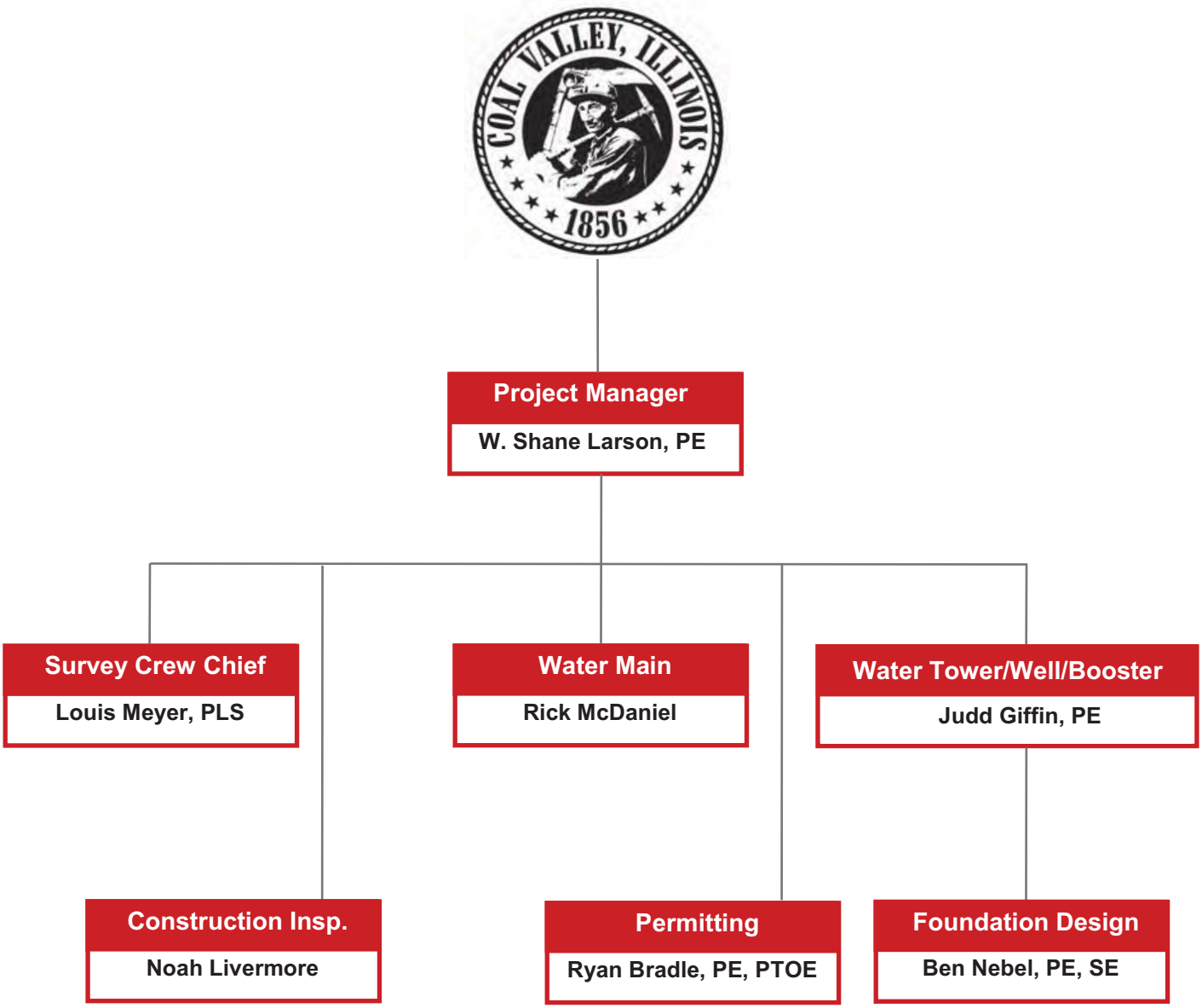
We have the ability to conduct property, boundary, hydraulic, topographic, and right of way surveys as part of our project development or for individual client needs. The HEI transportation engineering staff has the ability to provide designs from complex interstate interchanges, to urbanized cross sections with ADA requirements, stormwater management, and traffic operations, to hot mix asphalt overlays and sealcoat operations as part of an annual maintenance program.

Our structural engineering staff can develop project plans from advanced typical designs to simple single span structures and culverts. HEI also has the ability to provide hydraulic and hydrologic analysis for water crossings and earthen dam construction. The aviation engineering staff has the ability to provide services for municipal, county, and private airports. These services include airport planning, runway, taxiway, and apron designs, design, construction, and maintenance for airport structures, and general airport construction project oversight. HEI also offers full-service construction engineering and oversight for roadway, structure, and general aviation projects. These services include resident engineers, construction documentation, quality assurance testing, and laboratory testing. We have an IDOT approved laboratory in the Jacksonville office.

Our water/wastewater staff routinely works with municipalities on water and wastewater projects. Our staff is experienced in producing plans and specifications for water distribution and wastewater collection systems.

HEI routinely coordinates with state and federal agencies including the Illinois Department of Transportation, Illinois Environmental Protection Agency, Illinois Department of Natural Resources, Illinois Historic Preservation Agency, Federal Highway Administration, the US Army Corps of Engineers, and Federal Aviation Administration. We have a thorough understanding of their requirements and can efficiently navigate the submittal processes to expedite approvals.

We also understand the importance of quality project management, construction timelines, and financial budgets. Each project / client is unique and requires special attention to maintain long term relationships. Our project managers are widely respected for their ability to communicate effectively and facilitate timely decisions for quick resolutions to issues. Our goal is to be a seamless extension of your staff.


COAL VALLEY, ILLINOIS
1856
Project Manager
W. Shane Larson, PE
Survey Crew Chief
Louis Meyer, PLS
Water Main
Rick McDaniel
Water Tower/Well/Booster
Judd Giffin, PE
Construction Insp.
Noah Livermore
Permitting
Ryan Bradle, PE, PTOE
Foundation Design
Ben Nebel, PE, SE

Successful projects are the result of careful planning and the combined talent and collaboration among team members. Project teams must be carefully selected and consist of members who collaborate well and understand their specific role in the project. To strengthen our team, we have included Giffin Engineering. Giffin Engineering has been providing a full range of municipal engineering services since 1990 with an emphasis on water and wastewater infrastructure improvements. Giffin Engineering routinely completes water and wastewater projects for municipalities including water treatment, water distribution and storage, wastewater collection and wastewater treatment. HEI will use Giffin Engineering as needed to assist with water tower design, well upgrades, booster pumps, and pressure reducing valve design.

In the below narrative, we have described the project management and engineering experience of the four key personnel on our team. For additional information on these team members please see the resumes included in the Appendix of this submittal. Resumes for the additional team members shown on the organizational chart can be provided upon request.

W. Shane Larson, P.E. - Project Manager

Mr. Larson will assume the role of Project Manager. Mr. Larson has significant Project Management and water system design and construction inspection experience during his 27 year career. As your Project Manager, he will have sole responsibility for keeping your project on schedule, within budget, providing technical expertise as needed, and providing project updates to the Village. He is well respected for his design and construction knowledge as well as his ability to successfully manage projects so that they meet the desired scope, schedule, and budget.

Years Experience: 27

Education:

- **BS, Civil Engineering University of Illinois, 1992**

Registrations:

- **Professional Engineer—IL, IA**

Mr. Larson has recent water main ad water tower project management experience on projects in the City of Aledo, Village of Mackinaw, Village of North Pekin, Village of Maquon, and City of Eureka. He has thorough understanding of current piping materials and trenchless construction methods to ensure a cost effective design.

He routinely works with the IEPA and IDNR so he will be able to efficiently navigate the permitting process that will be required for your project.

Rick McDaniel - Project Engineer

Mr. McDaniel has 29 years of experience working on municipal and site development water system projects. He has completed over 100 municipal and site development water system projects throughout the Quad Cities area for public and private entities. He will use this experience to lead the water main design.

While working for the City of East Moline, he was responsible for leading design for all water system projects. He has experience developing cost effective plans and specifications that incorporate the latest technologies. Mr. McDaniel is consistently praised by our clients for producing well developed plans and specifications that minimize construction delays and cost overruns.

Judd Giffin, P.E. - Project Engineer

Mr. Giffin has 22 years of experience designing water/wastewater systems for municipalities throughout north central Illinois. This experience gives him thorough knowledge of IEPA requirements and permitting and current technologies in water towers, wells, and booster pumps. With this experience, he will lead the water tower, well upgrade, booster pump, and reducing valve design. He recently completed an entirely new water system for the Village of Joy that included treatment, elevated storage, and distribution. This $3.5 million project was very similar to your project.

Years Experience: 22

Education:

- **BS, Civil Engineering Bradley University, 1997**

Registrations:

- **Professional Engineer—IL**

Noah Livermore – Construction Inspector

Mr. Livermore has 14 years of experience providing quality construction inspection services on all types of civil engineering projects. He has thorough understanding of IDOT and Illinois Water and Sewer inspection and documentation procedures. He is certified by IDOT in all materials testing categories as well as in documentation.

Mr. Livermore has significant water system construction experience throughout the Quad City area while working at HEI, Missman, and Langman Construction. He has a reputation of maintaining a balanced relationship with contractors so that he can work closely with them to keep projects on schedule and within budget but also ensure their work meets all requirements set forth in the plans and specifications. Due to working for Langman Construction, he brings another level of understanding on best construction practices.

He has the ability to identify construction issues, develop alternate solutions, and work with contractors to quickly resolve to maintain project schedules while maintaining the budget.

HEI has experience managing, designing and providing construction engineering services for water system projects similar to your Niabi Zoo Road project. Utilizing our past experience on similar projects, we have developed a Project Approach for your project.

Elevated Water Storage Tank Capacity

We have analyzed the previously calculated elevated water storage tank size calculations and preliminarily agree with the calculations that have been done and the determination of an approximately 175,000 gallon tank size. We also understand the IEPA has concerns over constructing a 175,000 gallon tank and recommends a 150,000 gallon tank. We will coordinate with Village to verify/update the numbers used in the calculations and coordinate with the IEPA before determining the actual tank size that we will propose.

Field Survey/Lidar Data

To reduce engineering cost, we plan to use a combination of field survey with Lidar Data (available on the internet) to design the project. We routinely use this method with great success thus lowering engineering costs for our clients.

FAA Permit

We understand the Village has obtained a FAA permit to construct a 140' tall elevated water storage tank. Due to the timeframe that has passed since the permit was obtained, we will coordinate with the FAA to ensure all permitting is valid based on proposed elevated storage tank design. We do a significant amount of airport work and have solid working relationships with the FAA so we can efficiently work through the Air Space approval process.

Environmental Review

Based on the anticipated scope of work, coordination with the IDNR to determine wetland and endangered species impacts and with the IHPA to determine cultural/historic impacts will be required. Based on our preliminary analysis of the proposed project site, we do not anticipate any issues in obtaining clearances from both of these agencies.

Utility Coordination

We will collect utility location information at the onset of the project to ensure the water main layout does not conflict with the existing utilities. We will confirm horizontal and vertical locations of the utilities and coordinate as needed to work through any conflicts to avoid costly construction delays.

Water Main - Open Cut vs Boring

We will plan to allow the contractors to either bore, open cut or a combination of both with regards to water main installation. We have found that leaving this "open ended" in the bid documents attracts additional bidders and produces lower bid pricing.

Construction Contracts

We plan to separate the project into several construction contracts so that similar work is combined together and dissimilar work is separated to attract additional bidders and thus lower bids. We anticipate three separate contracts as follows:

1. Water main, reducing valves, service lines, fire hydrants, and surface restoration.
2. Elevated water storage tank.
3. Well upgrades and booster pumps.

It is critical to clearly define scope of each project especially where they overlap to avoid construction change orders and claims. Our team has experience doing this and understands the specific areas need to be closely analyzed to avoid omissions.

Project Management

We understand the success of a project is measured in multiple ways but typically includes meeting the project schedule, staying within engineering and construction budgets, and the quality of communication between the project team and the client.

At the onset of the project, our Project Manager, Mr. Larson, will work with the Village staff to develop a detailed project schedule that meets the City's needs. Once the schedule is set, Mr. Larson will monitor closely and coordinate routinely with Village staff to ensure that all submittal dates are being met.

In addition to the engineering budget, Mr. Larson will closely monitor the construction budget. He will work closely with the design team to make adjustments as necessary to keep the construction cost within the programmed amount. In situations where lower cost options may jeopardize long term quality, he will coordinate with Village staff to ensure that they have all of the information that they need to make sound engineering decisions.

Good communication is the key component in any relationship. Mr. Larson will work diligently to maintain good communication between the project team and Village staff throughout the duration of the project. He will provide written, monthly updates on the project status to ensure Village staff always have the information that they need to answer questions from media, Village board members or the public regarding specifics of the project.

Mr. Larson has a reputation of “always” being available for his clients via phone, email, and text. Through this type of commitment, he gains client trust that typically leads to long lasting relationships between HEI and our clients.

Stakeholder Coordination

We understand that a lack of stakeholder coordination is a typical reason why projects do not meet project “scope, schedule, and budget”. Our philosophy regarding stakeholder coordination is “early and often”. At the onset of each project, we will identify the project stakeholders and begin coordination with them to determine their project needs. This early contact ensures that all issues are identified early in the project and allows our design team the ability to design accordingly rather than having to make changes late in the design process that can cause project delays and budgetary issues. The stakeholders that we already identified for your project or as follows:

- Village of Coal Valley
- Niabi Zoo
- Property Owners
- Rock Island County
- IEPA/IDNR/IHPA - Water/Environmental//Cultural/Stormwater
- FAA
- Utility Companies

Once we determine our stakeholder project needs, we will develop a coordination plan/schedule tailored specifically to each stakeholder that ensures we maintain contact throughout the project. This “early and often” philosophy has proven to be successful in minimizing upset project stakeholders and allowing HEI to meet project scope, schedule, and budget.

Due to our experience working on similar projects and on projects within the Quad City area, we already have established relationships with the Village of Coal Valley, Niabi Zoo (Rock Island County Forest Preserve), County Engineer for Rock Island County, IEPA, IDNR, IHPA, and the FAA. These established relationships with will prove to be beneficial to the Village by creating engineering efficiency (cost savings) and “good will” with the other project stakeholders.

Quality Control/Quality Assurance

Our overall project plan will include an aggressive Quality Control/Quality Assurance (QC/QA) component. All submittals will be reviewed by Design Engineers as well as an experienced Construction Engineer prior to submittal to the Village and IEPA.

In addition to the design engineering review, we feel that it is important to review plans for constructability issues. Our constructability reviews have proven to be successful in reducing construction cost overruns, project schedule delays, and contract claims.

Our experienced Construction Engineer will be responsible for ensuring that all plan details are not only constructible but also are the most cost effective.

Contractor Coordination/Value Engineering

HEI has great relationships with water system contractors in the Quad City area. We will use these relationships throughout the design process to ensure we are using the most cost effective materials and methods to help reduce the overall cost of the project. We've had great success with this on previous projects which has allowed us to save clients money and build quality relationships with contractors.

Project Staffing

With 50 engineering professionals, we will assign staff to the project as needed to maintain the project schedule. We are committed to the Village of Coal Valley and this project and therefore our Project Manager will have authority to increase staffing levels as needed. Our plan is to assign two design engineers and one drafting technician to the project full time and utilize a third engineer for all permitting and stakeholder coordination issues as required to meet the schedule.

During construction, we plan to use one experienced Resident Technician to oversee all contracts. We plan to use completion dates in each of the contracts that overlap to ensure one staff member can oversee all of the work simultaneously thus reducing construction inspection costs.

Project Schedule

The anticipated project schedule is as follows:

- Notice-to-Proceed - December 5, 2019
- Project Kick-off Meeting - December 9, 2019
- Survey, Soil Borings, & Utility Locations - December 16, 2019
- Preliminary Plan Review Meeting - January 13, 2020
- Pre-Final Plan Review Meeting - February 17, 2020
- Finalize Plans & Specifications - March 1, 2020
- Advertise For Bids - March 16, 2020
- Pre-Bid meeting - March 23, 2020
- Bid Opening - April 28, 2020
- Award Contract - May 6, 2020
- Execute Contracts - June 3, 2020
- Pre-Construction Meeting - June 8, 2020
- Construction Start - June 15, 2020
- Construction Complete - July 1, 2021

There is a possibility that all work could be completed in 2020 but will hinge on the fabrication and delivery of the elevated water storage tank components. Based on the anticipated engineering/bidding schedule, we would anticipate the elevated storage tank painting needing to be completed in 2021 due to temperature restrictions in late 2020.

We will utilize completion dates in the construction contracts to force contractors to complete projects in a timely manner that meets the Village's schedule requirements.

The team members we are proposing to work on your project routinely work on water system projects as well as waste water collection system projects that are similar in nature to water system projects (permitting, plan and specification styles, construction techniques, etc.). Below is a sampling of the recent projects they have completed that are similar to your Niabi Zoo Road project.

Village of Joy - Water System

A Hutchison Engineering/Giffin Engineering team was selected by the Village of Joy to provide design and construction engineering services for a new water system. The project includes a water treatment facility, emergency standby generator, rehabilitation of well #1, chemical treatment of well #2, 700' of raw water line to connect well #2 to the new treatment facility, 10,000 gallon ground storage tank with aerator, 50,000 gallon elevated spheroid water tower, and 14,000' of 8" water main. The services provided include USDA, IEPA, IDNR coordination, USDA grant application, developing plans and specifications for a local bid opening, bid administration, and construction inspection. In an effort to obtain better contractor pricing, the project was split into three separate bids similar to what will be proposed for your project.

Village of Mackinaw - Fast Ave. Water Main Extension

Hutchison Engineering was selected by the Village of Mackinaw to provide design and construction engineering services for this water main extension project. The project included 650' of new water main, fire hydrants, gate valves, and a live connection. The services provided included coordination with IEPA, coordination with the township to obtain a permit, developing plans and specifications for a local bid opening, bid administration, and construction inspection. This $55,000 project was completed in 2018.

City of Eureka - Circle View Drive Water Main Replacement

Hutchison Engineering was selected by the City of Eureka to provide design and construction engineering services for this water main extension project. The project included 500' of new water main, fire hydrants, gate valves, and a live connection. The services provided included coordination with IEPA, developing plans and specifications for a local bid opening, bid administration, and construction inspection. This $60,000 project was completed in 2019.

Village of Washburn - Water Treatment Facility

Giffin Engineering was selected by the Village of Washburn to provide design and construction inspection services for this water treatment facility upgrade project. The project included the removing and replacing existing piping, rehabilitating existing aeralator (including a new SCADA control system to automate the operation of the media filter), building addition to include new chemical, chlorine, and office rooms, upgrades to existing well, new electrical system (including MCC panel with VFDs for all motors). Design was completed with 3D Modeling software.

Village of North Pekin - Water Tower Rehabilitation

Hutchison Engineering was selected by the Village of North Pekin to provide design and construction engineering services for this water tower rehabilitation project. The project included bringing all access areas up to OSHA standard with extensive tower modifications, cleaning, and painting the 250,000 gallon elevated tank. The services provided included coordination with the IEPA, water tower inspection, developing plans and specifications, bid administration, and construction inspection. This $250,000 project was completed in 2018.

Village of Maquon - Water System Upgrades

A Hutchison Engineering was selected by the Village of Maquon to provide design engineering services to evaluate their water system and make a recommendation as to whether the Village should pursue an entirely new system or connect to a neighboring municipalitie's water system via 10 miles of water main. Either option will require a new 100,000 gallon water tower and new water mains throughout town. HEI will also responsible for assisting with efforts to obtain a USDA grant to fund a majority of the project.

Galesburg Sanitary District - Sewer Interceptor Replacement

HEI was selected by the Galesburg Sanitary District to analyze options and provide preliminary and construction engineering services for the rehabilitation of 1000' of sewer interceptor. The existing sewer interceptor was a 3' high by 6' wide box section constructed of precast concrete box culverts. The box culvert joints were leaking and causing significant infiltration. The Sanitary District asked HEI to analyze options including different types of lining, replacement and joint repair. After analyzing approximately 15 different lining, joint repair and full replacement options, it was decided that full replacement was the most cost effective. The full replacement option included approximately 1000' of 60" pipe, 4 new 8' and 9' diameter manholes, 3 existing structure reconfigurations and bypass pumping, The project was complicated by several factors including the 20' depth of the new 60" pipe, 5 million gallons of daily flow that needed to be maintained throughout construction and the 15' deep concrete storm water channel immediately adjacent to the 20' deep excavation required to install the new pipe. After consideration of several different types of sanitary sewer pipe, HEI design staff specified Centrifugally Cast Fiberglass Reinforced Polymer Mortar Pipe. This pipe provided the best balance of life expectancy, ease of installation and water tight joints. Construction of this $1 million project is scheduled to be completed in 2017.

Galesburg Sanitary District - Sanitary Grinder

Hutchison Engineering was selected by the Galesburg Sanitary District to provide design engineering services for the installation of a sanitary grinder. The grinder was needed to prevent debris from clogging the adjacent lift station. The project included installing a 6' diameter manhole to house the grinder, grinder, and re-routing sanitary sewer to the new manhole. The services provided included design calculations to determine the appropriate size of grinder and developing plans and specifications for this $185,000 project.

Appendix

Hutchison Engineering, Inc.

W. SHANE LARSON - P.E. - VICE PRESIDENT
PROJECT MANAGER

With both experience in the public & private sectors, Shane brings a unique skill set and depth of knowledge to any project in which he is involved. He rose to the level of Bureau Chief at the Illinois Department of Transportation and currently is a Vice President and Project Manager managing Hutchison Engineering's offices in Peoria and Moline. He has both design & construction inspection experience and he uses this experience to ensure Hutchison Engineering designs are constructible and construction inspection is performed in a manner that produces long lasting infrastructure. Shane has a knack for interacting with people and excels in client and stakeholder communication.

Shane is married with four kids. He enjoys spending time with family and is an avid sports fan. He follows both the NFL, MLB and college sports closely. He routinely attends Bears, Cubs, and Fighting Illini games. Shane played two years of football at Augustana College earning a Varsity Letter both years. When not attending sporting events, him and his wife can frequently be seen at music concerts throughout central Illinois.

PROFESSIONAL EXPERIENCE

27 Years of Experience
HEI - 7 Years
IDOT - 17 Years
Other - 3 Years

EDUCATION

University of Illinois
BS - Civil Engineering
Spring 1992

Augustana College
BA - Physics
Spring 1991

PROFESSIONAL REGISTRATIONS

Licensed Professional Engineer

- Illinois - 062-051722
- Iowa - P22365

PROFESSIONAL + CIVIC AFFILIATIONS

American Public Works Association Member & Annual Conference Planning Committee Member

American Council of Engineering Consultants Member & Illinois State Tollway Committee Member

Innovations Conference on Asphalt & Transportation Board Member

NOTABLE PROJECT EXPERIENCE

Fast Ave. Water Main Extension/Village of Mackinaw

East View Circle Water Main Replacement/City of Eureka

Water Main/Water Service Replacement/City of Aledo

Edgewater Drive Water Main Replacement/Village of North Pekin

Ranney Well Rehabilitation/City of Galesburg

Water Tower Rehabilitation/Village of North Pekin

Water Tower Rehabilitation/Village of Maquon

Flood Gate/Village of Coal Valley

New Elementary School/Utica, IL/Waltham School District

New Knoxville High School/Knoxville, IL/Knoxville School District

Hutchison Engineering, Inc.

RICK McDANIEL
PROJECT ENGINEER

Rick grew up and has lived in the Quad City area his entire life. He attended East Moline High School and Blackhawk College before starting his career in engineering. He worked for several engineering firms and the City of East Moline before starting work at Hutchison Engineering in 2017. His engineering career has been focused on site development, park, and recreational facility projects. During his 29 year career, he has designed over 100 sites throughout the Quad City region. Many of these recreational, commercial, residential, and industrial sites are vital to the Quad Cities. He enjoys the interaction with clients, construction managers, and architects and excels in a team environment.

PROFESSIONAL + CIVIC AFFILIATIONS

American Public Works Association Member

American Council of Engineering Consultants Member

Youth Pastor at Hope Farm

NOTABLE PROJECT EXPERIENCE

5th Street Water Main Improvements/City of East Moline

Iowa Industrial Park Water and Force Main Extension/City of Dewitt

Silver Creek Water and Sewer Main Extension Project /Clinton County, IA

Water System Study/Rapid City

2010 Annexation Water and Sewer Main Extension/City of East Moline

Lombard Elementary School/Galesburg CUSD #205

Steele Elementary School/Galesburg CUSD #205

Waltham Elementary School /Waltham CUSD #185

PROFESSIONAL EXPERIENCE

29 Years of Experience

HEI - 2 Years
Shive-Hattery - 10 Years
City of East Moline - 4 Years
Other - 12 Years

EDUCATION

AAS—Blackhawk College
1990

GIFFIN ENGINEERING, Inc.

Judd R. Giffin, P.E
Senior Civil Engineer

Judd R. Giffin, PE, is located in Henry, Illinois, where he is the owner of Giffin Engineering, Inc. and is responsible for civil engineering activities for local municipalities, and state governments. He holds experience with analysis, problem solving, design, preparation of construction plans and specifications, 2D and 3D modeling, surveys, construction layouts, construction guidance, and inspection associated with structures, transportation infrastructure, parking lots, water treatment plants, water distribution systems, water towers, sanitary collection systems, waste water treatment plants, storm sewers, and site development.

TITLE
President –Giffin Engineering, Inc.

EDUCATION
B.S. Civil Engineering, Bradley University, Peoria, Illinois, 1997

YEARS EXPERIENCE
2014 to Present- Giffin Engineering, Inc.
-President
2009 – 2014- SGA, Inc.
-Professional Engineer
2005 – 2009- Foth Infrastructure & Environment
2002 – 2005-Morgan Stanley,
2001 – 2002-Farnsworth Group
1996 – 2001-McClure Engineering Assoc.
1990 – 1996-IDOT

ADDITIONAL EDUCATION/TRAINING
IDOT – Documentation of Contract Quantities Training 2009
NHI – National Highway Institute Safety Inspection of In-Service Bridges 2009

REGISTRATION
Professional Engineer No. 59458, Illinois, 2006

SELECTED PROJECT EXPERIENCE:

- ***Water System Improvements. Village of Joy, Illinois***

Complete responsibility for design / bidding / construction of a new conventional water treatment facility located in a new 1,000 sq.ft. addition to the existing maintenance building, emergency standby power generator, rehabilitation of Well No. 1 and chemical treatment of Well No. 2, 700 LF of raw water line to connect Well #2 to the facility, 10,000 gallon ground storage tank and aerator, 50,000 gallon spheroid water tower constructed near existing Well #1, and 14,000 LF of existing 4" cast iron water main replacement with 8" PVC water main.

- ***Water Treatment Plant Improvements. Village of Washburn, Il.***

Complete responsibility of troubleshooting, design, bidding, and construction of the complete overhaul of the existing water treatment plant. Project included removing existing piping, rehabilitating existing aeralator (including a new SCADA control system to automate the operation of the media filter), new chemical / chlorine / office rooms, replacement of back wall with movable wall (in order to access well #1), rehabilitation of existing well, and complete with new electrical system (including MCC panel with VFDs for all motors). Entire design was completed using **3D modeling** software.

- ***Water Treatment Plant Upgrade - Reverse Osmosis, Toluca, Il.***

Complete responsibility for design, bidding, and construction. Project included switching existing facility from aerobic system to an anaerobic system. This over haul consisted of removing existing piping, pressure filters, and R.O. equipment and installing new R.O. unit, piping and all new treatment equipment. Also included - a new portable gen-set and a new motor control center / SCADA control system. Entire design was completed using **3D modeling** software.

- ***Highview/Centennial North Water System. City of East Peoria, Illinois***

Responsibility for pressure / flow modeling to resolve fireflow conditions for EastGate Village Subdivision, which included immediate attention to the new Lincoln Office facilities need to perform sprinkler tests at 150% of required flow. Model included multiple pressure zones, pressure sustaining valves, and booster station.

- *A full resume is available upon request.*

326 Edward Street • Henry • IL • 61537 • (309)356-5393 • office@giffin.com

Hutchison Engineering, Inc.

NOAH LIVERMORE
RESIDENT TECHNICIAN

With both consulting engineering and contracting experience, Noah brings a unique skill set and depth of knowledge to any project in which he is involved. He has worked on some of the largest civil engineering projects in northwest Illinois and southeast Iowa. He is well respected for his ability to work with contractors and clients to keep projects on schedule and within budget. He has a thorough knowledge of construction inspection procedures, materials testing, and project documentation.

Noah is married with two children. He enjoys spending time with family and is an avid sports fan. He enjoys coaching his son's youth sports teams. He follows both the NFL, MLB and college sports closely. He is a die hard St. Louis Cardinal fan. When not attending sporting events, him and his wife can be found at a campground in New Windsor.

PROFESSIONAL EXPERIENCE

14 Years of Experience
HEI - 2 Years
Langman Const. - 1 Year
Missman - 9 Years
Other - 2 Years

EDUCATION

AAS-Morrison Institute of Technology—Engineering Technology, 2004

TRAINING

- IDOT Level I & II Bit Conc QC/QA
- IDOT Level I & II PCC QC/QA
- IADOT Level I PCC
- IDOT Bit Conc Density Testing
- IDOT Documentation #16-11612
- IADOT Level I Aggregate
- IADOT Small Drainage Structure Inspection
- ACI Field Testing Tech: Grade ITroxler Nuclear Gauge Cert Course

NOTABLE PROJECT EXPERIENCE

Fast Ave. Water Main Extension/Village of Mackinaw

East View Circle Water Main Replacement/City of Eureka

Water Main/Water Service Replacement/City of Aledo

Progress Park Water Main/Booster Station/City of Aledo

Ranney Well Rehabilitation/City of Galesburg

Water Tower Rehabilitation/Village of North Pekin

Water Tower Rehabilitation/Village of Maquon

Flood Gate/Village of Coal Valley

11th Ave. Rock Island Street Reconstruction and Water Main/IDOT-D2

US 63 Reconstruction and Water Main/Booster Station/IaDOT-D6

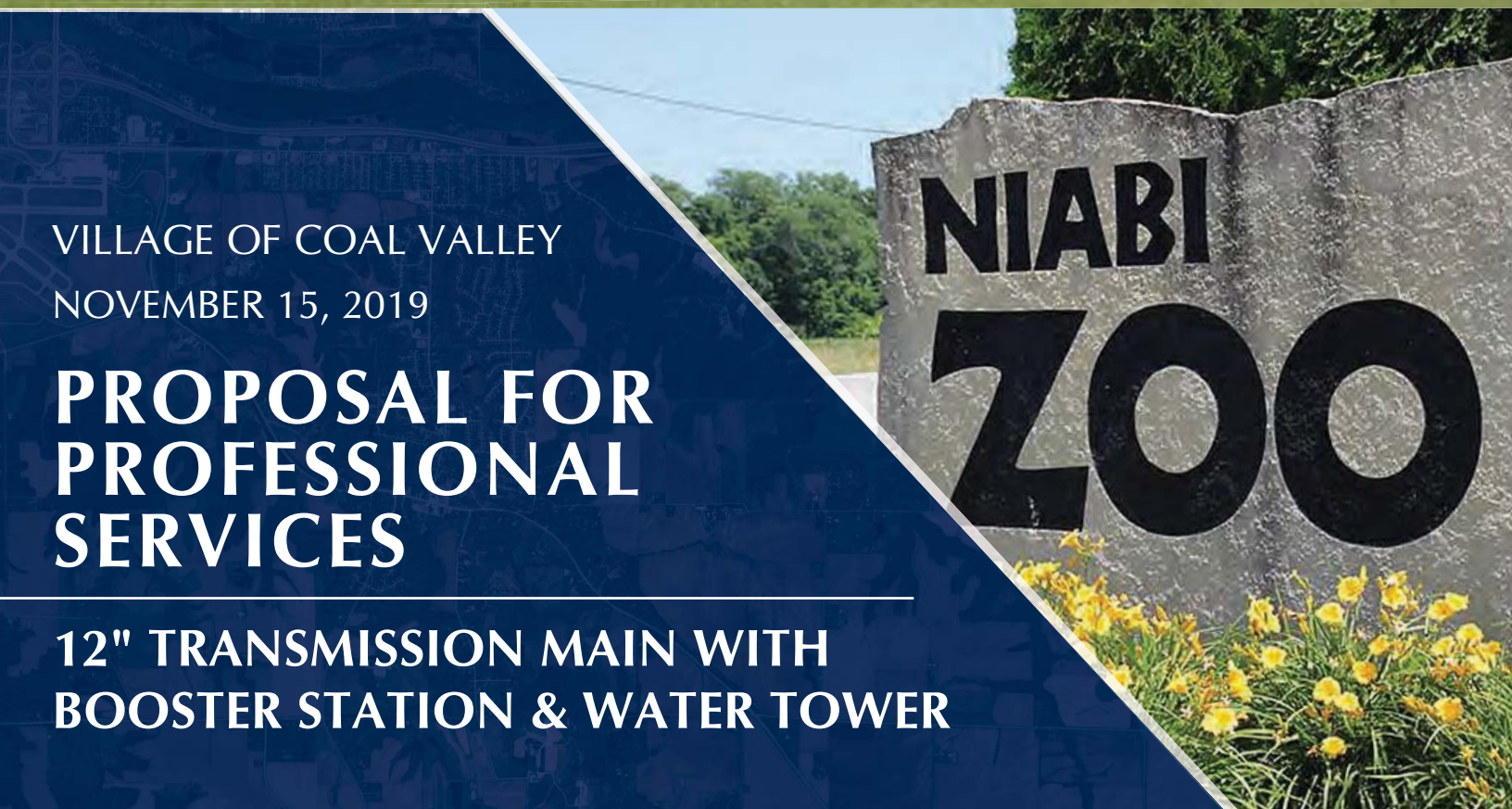
VEENSTRA & KIMM, INC.

VILLAGE OF COAL VALLEY

NOVEMBER 15, 2019

PROPOSAL FOR PROFESSIONAL SERVICES

12" TRANSMISSION MAIN WITH BOOSTER STATION & WATER TOWER



VEENSTRA & KIMM, INC.
1800 5th Avenue, Rock Island, Illinois 61201
309-786-7590 ● 309-797-0996(FAX) ● 877-241-8010(WATS)

November 15, 2019

Village of Coal Valley
Attn: Annette Ernst
900 1st Street
Coal Valley, Illinois 61240

COAL VALLEY, ILLINOIS
12" TRANSMISSION MAIN WITH BOOSTER STATION & WATER TOWER
PROPOSAL FOR PROFESSIONAL SERVICES

Veenstra & Kimm, Inc. is pleased to submit the attached Proposal for Engineering Services regarding the 12" Transmission Main with Booster Station & Water Tower project for the Village of Coal Valley.

Veenstra & Kimm, Inc. is a firm of about 150 people and understands the importance of experience. Veenstra & Kimm, Inc. has reviewed the commitments of our key staff involved in this proposal. Veenstra & Kimm, Inc.'s design lead for the Booster Station and Water Tower (Leo Foley) has designed booster stations and water towers with very similar installations. This project will be a priority for Veenstra & Kimm, Inc. Water projects like the Transmission Main with Booster Station & Water Tower are the foundation of our company.

Veenstra & Kimm, Inc. believes the team proposed to complete this important work has unmatched technical skills and relationships with IEPA. These skills and relationships will be key to providing a successful project for Coal Valley at the best value.

If you have any questions or need additional information, please feel free to contact the undersigned at 309-786-7590.

VEENSTRA & KIMM, INC.

Jason L. McKenzie, P.E.

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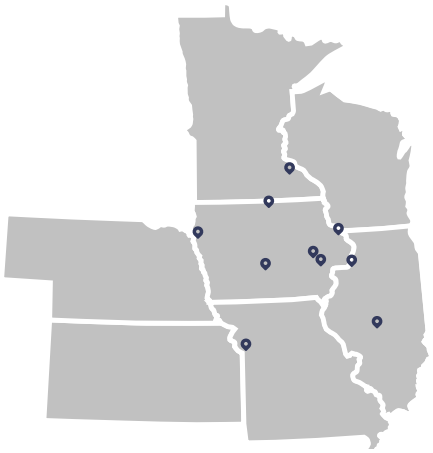


Engineering Solutions Since 1961

LOCAL OFFICE
Jason McKenzie, P.E.
1800 5th Avenue
Rock Island, IL 61201
309-786-7590 (p)
jmckenzie@v-k.net

***58* Years in Business**

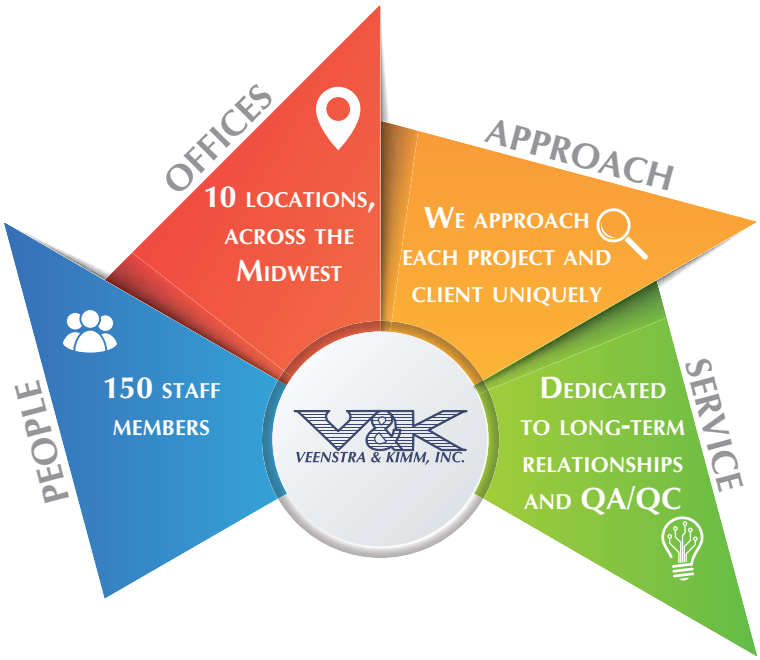
***500* Repeat Clients**

Our local presence throughout the Midwest allows us to better serve the needs of the our clients.

Veenstra & Kimm, Inc. was founded in 1961 as a partnership of Bob Veenstra and Jim Kimm. The firm was founded to provide civil and environmental engineering services primarily to communities throughout the state of Iowa. Since 1961, the firm has specialized in providing civil and environmental engineering services with a focus on water and wastewater engineering. In 1980, the firm was incorporated. In 1991, the current management of the firm purchased it from its founders with the goal of continuing its long tradition of providing excellent engineering services to municipalities.

Since its founding, Veenstra & Kimm, Inc. has grown to its current size of approximately 150 employees. Veenstra & Kimm, Inc.'s main office is located in West Des Moines, Iowa. Starting in the mid 1990s, Veenstra & Kimm, Inc. embarked on a program of opening branch offices throughout our primary work area. The role of the branch offices is to improve the local delivery of services to our client communities.

Our services include a wide range of design, planning, and consulting services for municipalities and counties. Complete services are provided to cities, counties, and other governmental and private entities concerning aspects of civil engineering, environmental engineering, structural engineering, and planning and landscape architectural services. Our civil and environmental engineering services include work on water supply, water and wastewater treatment facilities, streets and roads, land surveying, stormwater management and site planning.

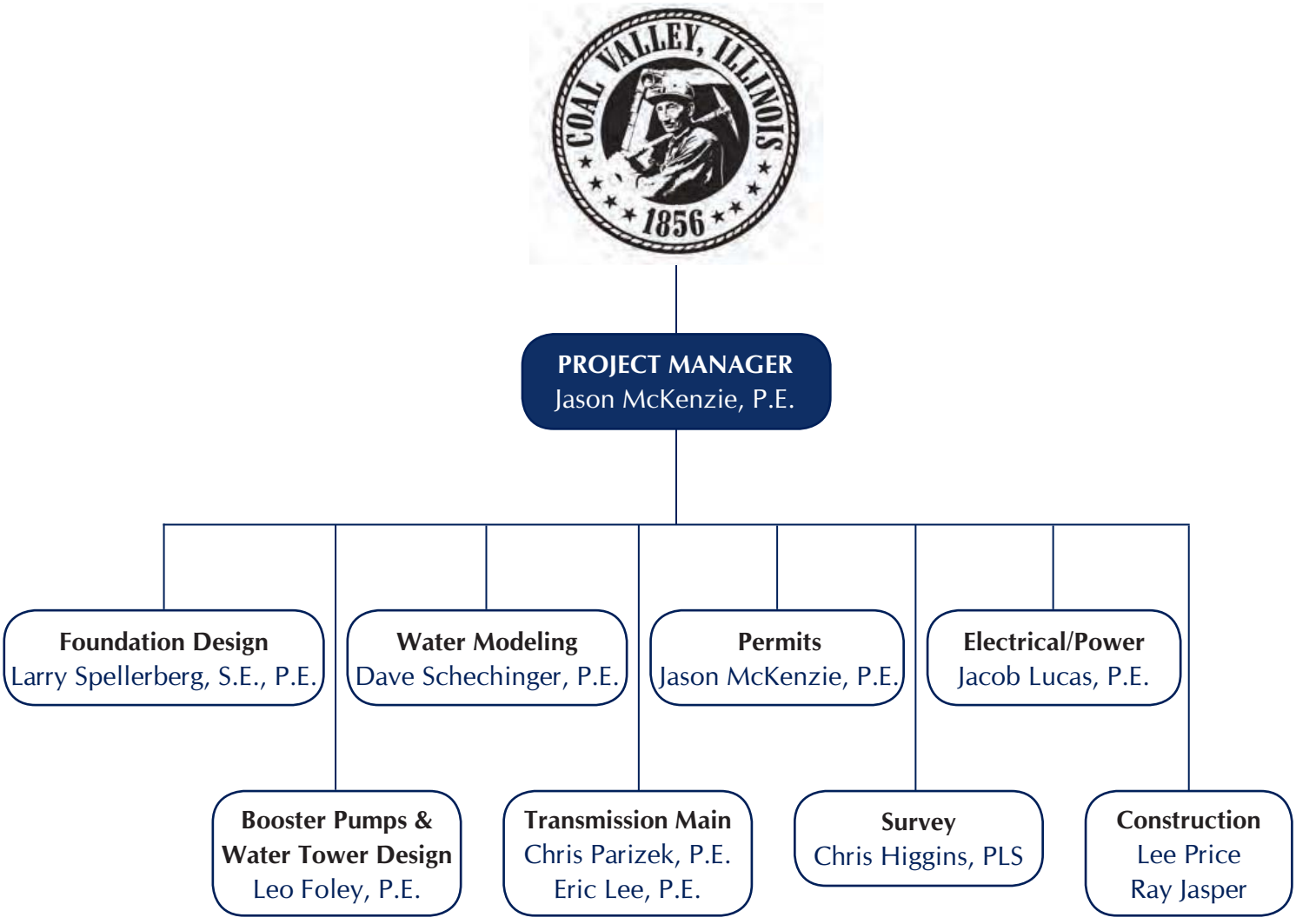


In addition to providing traditional engineering services, Veenstra & Kimm, Inc. provides the support services, which are critical to project implementation. We maintain expertise in all areas of project development, including the legal requirements and financial requirements for the implementation of our project.

Veenstra & Kimm, Inc. believes our role as a consulting engineer is to assist our clients in developing and implementing their projects. We believe our current size provides significant advantages to our clients. Our firm is large enough to allow us to have on staff key professional engineers and planners with particular areas of expertise. On the other hand, Veenstra & Kimm, Inc. is small enough to be responsive to the needs and objectives of our clients. We strongly believe in the need to maintain excellent personal relationships even for our top management personnel.

Veenstra & Kimm, Inc. understands the importance of listening to our clients and working with our clients to develop the best solution possible. Veenstra & Kimm, Inc. places particular focus on the active involvement of our clients during project development and design. We understand our clients have more knowledge of their systems than we can develop in a short period of time. Our role is to draw on our client's understanding of their systems and to use our experience and expertise to develop sound engineering solutions.

ORGANIZATIONAL CHART



Jason McKenzie, P.E.

Project Manager

As project manager, McKenzie will be responsible for the overall management of the project. As project manager, McKenzie will be a primary liaison and point of communication between the Village of Coal Valley and Veenstra & Kimm, Inc. McKenzie will oversee Veenstra & Kimm, Inc.'s project team and will be responsible for ensuring the timely performance of the project team. McKenzie's responsibilities will include overseeing the overall project quality control program as well as final plans to the Village.

Veenstra & Kimm, Inc. believes in the concept of strong project management and continuity of client relationships. McKenzie will serve as the project manager throughout the development of the project. In addition to his managerial responsibilities on the project, McKenzie will work with other members of the project team on various elements of the project. McKenzie brings experience and familiarity with transportation and utility construction plans, traffic staging, permits, coordination and construction procedures. McKenzie has worked with municipalities and state agencies on improvements to their roadway and utility systems.

PROJECT EXPERIENCE

* 38th Street Improvements – Rock Island, IL
* 1st Avenue and 9th St/11th St Corridor Study – Rock Island, IL
* State Street Reconstruction – Geneseo, IL
* 41st St Corridor Study Project – Moline, IL
* Forest Grove Road Design – Davenport, IA and Bettendorf, IA
* Mississippi Drive Corridor Study – Muscatine, IA
* Tanglefoot Corridor Study and Design (Greenbrier – 18th St.) – Bettendorf, IA
* U.S. 61 Design (IADOT) – Des Moines Count, IA
* 41st St/26th Ave Traffic Signals – Moline, IL
* US 67/Cloverleaf Drive – Monmouth, IL
* 6th Avenue, 31st to 33rd Street – Rock Island, IL
* Lake Street IL Route 20 (ILDOT) – Bloomingdale, IL
* North Boulevard IL Route 14 (ILDOT) – Palatine, IL
* Broadway Street IL Route 53 (ILDOT) – Joliet, IL
* Scott Community College Watermain – Bettendorf, IA
* Forest Grove Road Watermain – Davenport, IA
* Forest Grove Drive Watermain – Bettendorf, IA
* Muscatine Community College Watermain – Muscatine, IA
* State Street Reconstruction – Geneseo, IL

EDUCATION	REGISTRATIONS	EXPERTISE
BS, Civil Engineering Bradley University	Professional Engineer: Illinois, Iowa, Missouri	Municipal and DOT Design Utility and Stormwater Design Construction Inspection & Observation

Leo Foley, P.E.

Booster Pumps & Water Tower

Leo Foley will lead the team as Project Engineer in addition to heading all SRF documentation. Foley brings experience with large water towers, water mains, booster stations and pressure reducing stations. Foley is one of Veenstra & Kimm, Inc.'s most experienced project managers for water system improvement projects and has a wealth of experience using the Iowa SRF program. This experience along with recent experience managing large municipal projects funded with SRF monies makes his management talents a perfect fit for this project.

The water tower designer for Veenstra & Kimm, Inc. will be Leo Foley, P.E. Foley currently serves as Veenstra & Kimm, Inc.'s Vice President and manager of the Quad Cities office. Foley has worked on multiple projects for western Illinois and eastern Iowa municipalities. Foley has work experience that ranges from small projects to large system programs with multiple stakeholders. He is very strong in water distribution, water treatment, wastewater treatment and sewer collection. He is very experienced at leading multi-disciplined teams with various stakeholders to problem solving plans that are consensus oriented. Foley is well versed in public meeting facilitation and stakeholder negotiations.

Foley also has extensive experience with general civil engineering and planning water resource projects. Foley worked for 14 years with the Army Corps of Engineers, Rock Island District. He has varied experience with a strong project management and general engineering background. While with the Rock Island District, he spent his first 8 years with various assignments in planning and engineering divisions and finished his last 6 years as a senior project manager.

Foley brings to the project over 35 years of experience in water related projects. Foley's experience and expertise is ideally suited to providing the water tower or booster pump design shown in this proposal for engineering services.

PROJECT EXPERIENCE

* 100,000 Gallon Tank Demolition – East Moline, IL
* 1,000,000 Gallon Tank Rehabilitation – East Moline, IL
* 200,000 Gallon Water Tower Restoration – West Liberty, IA
* 100,000 Gallon Tank Demolition – West Branch, IA
* 250,000 Gallon Tank Design and Construction – West Branch, IA
* 1,000,000 Gallon Tank Design and Construction – Dubuque, IA
* 250,000 Gallon Tank Coating – Coralville, IA
* 1,000,000 Gallon Tank Design and Construction – Coralville, IA

EDUCATION	REGISTRATIONS	EXPERTISE
BS, Engineering, Purdue University MS, Construction & Engineering Management, University of Illinois	Professional Engineer: Illinois, Iowa	Municipal Engineer Project Financing Project Development

Dave Schechinger, P.E.

Water Modeling

Dave Schechinger, P.E. has lead the largest and most complicated modeling projects for Veenstra and Kimm, Inc. He has the depth of experience to prepare compressive models with extreme topography and pressure ranges. He has constructed water models as an analysis and management tool for some of the fastest growing communities in Iowa.

PROJECT EXPERIENCE

* Water Distribution System Model – Coralville, IA
* Camp Cardinal Blvd. Booster Station – Coralville, IA
* Water Distribution System Model – Burlington, IA
* Revalving and Pressure Zone Modifications – Burlington, IA
* Water Distribution System Model – Marion, IA
* Water Distribution System Model – Postville, IA
* Water Distribution System Model – East Moline, IL

EDUCATION	REGISTRATIONS	EXPERTISE
Bachelor of Science, Civil Engineering University of Iowa	Professional Engineer: Iowa	Municipal Engineer

Chris Parizek, P.E.

Transmission Main

Chris Parizek is a civil engineer who joined Veenstra & Kimm, Inc. in 2018 and has six years' experience completing and reviewing projects for the City of Iowa City. Parizek has experience with Iowa City in completing contractual line items that ensure contractors meet specifications. Parizek is also a licensed Public Water Supply Operator in the state of Iowa.

Parizek's responsibility on the project team will be to serve as the design engineer for the transmission main. Since joining Veenstra & Kimm, Inc., Parizek has worked extensively on water main projects with communities to address their municipal needs.

PROJECT EXPERIENCE

* Transmission Main and Booster Station, Iowa American Water – Blue Grass, IA
* Brady Street Water Main, Iowa American Water – Davenport, IA

EDUCATION	REGISTRATIONS	EXPERTISE
Bachelor of Science, Civil Engineering University of Iowa	Professional Engineer: Iowa Public Water Supply Operator	Civil Engineer

Larry Spellerberg, P.E., S.E.

Structural Engineer

Larry Spellerberg is a Senior Structural Engineer with over 25 years of structural design, hydraulic analysis, inspection, quality control, construction management, and project management experience. Spellerberg has extensive experience completing the structural design of foundations for similar buildings as what is proposed for the Coal Valley booster station.

PROJECT EXPERIENCE

* Foundation and Equipment Pads, Water Treatment Plant – Cambridge, IL
* Water Pollution Control Plant Bar Screen Building Foundation – Davenport, IA
* Lift Station Building Foundation – Bettendorf, IA

EDUCATION	REGISTRATIONS	EXPERTISE
Bachelor of Science, Civil Engineering Iowa State University Master of Science, Structural Engineering Iowa State University	Structural Engineer: Illinois Professional Engineer: Iowa, Wisconsin	Structural Engineer

Eric Lee, P.E.

Utility Engineer

Lee's role on the team will be to work with Parizek to ensure the transmission main route alternatives are researched in relation to right-of-way and other potential conflicts. They will also ensure the transmission main and booster station special conditions meet Illinois EPA standards.

PROJECT EXPERIENCE

* Kimberly Road Water Main, Iowa American Water - Davenport, IA
* 25th & Central Water Main, Iowa American Water - Bettendorf, IA
* Holland & Walnut Water Main, Iowa American Water – Davenport, IA

EDUCATION	REGISTRATIONS	EXPERTISE
Bachelor of Science, Civil Engineering University of Iowa	Professional Engineer: Illinois, Iowa	Civil Engineer

Jacob Lucas, P.E.

Electrical/Power

Jacob Lucas is an electrical engineer that is very familiar with working with MidAmerican Energy on power and generator for a Davenport lift station. Lucas will ensure that the booster station has the 3-phase power required to operate the station. Lucas has completed NFPA 70E Arc-Flash Safety Training Course.

PROJECT EXPERIENCE

* PS 203 Lift Station Rehabilitation/Controls/Generator – Davenport, IA
* Northwest Lift Station Upgrades – Asbury, IA
* Elevated Water Storage Tank – Durant, IA
* Water Treatment Plant Improvements – Clear Lake, IA

EDUCATION	REGISTRATIONS	EXPERTISE
BS, Electro-Mechanical Engineering, Loras College	Professional Engineer: Illinois, Iowa, Wisconsin	Electrical Engineer

Chris Higgins, PLS

Survey/ Easement/ ROW Advisor

Higgins' role on the project team will be to provide right-of-way, topographic survey and construction staking for the foundation of the booster station. Higgins joined Veenstra & Kimm, Inc. in 2017. Higgins manages Veenstra & Kimm, Inc.'s survey services for the Quad Cities office. Higgins brings to the project a full range of experience relating to boundary survey, topographic survey and construction staking.

PROJECT EXPERIENCE:

* Water Treatment Plant Foundation Staking – Cambridge, IL
* Lift Station Foundation Staking – Sabula, IA
* Water Main Replacement Topo and ROW – LeClaire, IA
* Agency Street Road Construction and Easements – Burlington, IA
* Main/Jefferson and Riverfront Topographic Survey – Burlington, IA
* Bishop Hill III Wind Farm – Henry County, IL
* Lone Tree Wind Farm Parcel Review – Bureau County, IL
* Dollar General ALTA Survey – Walnut, IL

EDUCATION	REGISTRATIONS	EXPERTISE
Bachelor of Science, Industrial Technology Western Illinois University	Professional Land Surveyor: Illinois, Iowa, Wisconsin	Land Surveying

Lee Price

Water Tower Inspector

Lee Price's responsibilities on the project team will include performing the preliminary tower inspection, preparing the report, assisting in the preparation of the plans and specification and inspecting the project periodically during construction. Price has recent experience with the project team providing technical support.

PROJECT EXPERIENCE

* Wiman Park Water Tower Coating – East Moline, IL
* 7th Street Tower Repairs – East Moline, IL
* Simpson Tower Repairs – Indianola Municipal Utilities
* Lindale Tower Repair & Recoating – Marion Municipal Water Department
* 31st Street Tower Repair & Recoating – Marion Municipal Water Department
* Water Tower Repair & Recoating 2016 – Gilbertville, IA
* Well 5 GSR Repair & Recoat – Marion Municipal Water Department
* Water Tower Inspection – Lovilia, IA
* West Water Tower Repair & Recoating – Vinton, IA

CERTIFICATIONS
NACE Level 1 Coating Inspector
Qualified Rigger and Signal Person
29-CFR-1926.1400

EXPERTISE
Tower Inspection

Ray Jasper

Construction Inspector

Ray Jasper's role will be to serve as inspector during construction of the project. This will include monitoring the contractor, inspection of work quality to specifications, pay application and final inspection.

PROJECT EXPERIENCE

* Veterans Memorial Parkway – Davenport, IA
* 250,000 gallon Wiman Park Water Tower Rehabilitation – East Moline, IL
* 500,000 gallon Dutch Road Water Tower Rehabilitation – Dixon, IL
* 500,000 gallon Warp Road Water Tower Rehabilitation – Dixon, IL
* 500,000 gallon Nachusa Avenue Water Tower Rehabilitation – Dixon, IL
* 500,000 gallon North Galena Avenue Water Tower Construction – Dixon, IL
* 250,000 gallon Water Tower Rehabilitation – Ashton, IL
* Well and Water Filtration Building – Savanna, IL
* Wastewater Treatment Plant – Stilllman Valley, IL

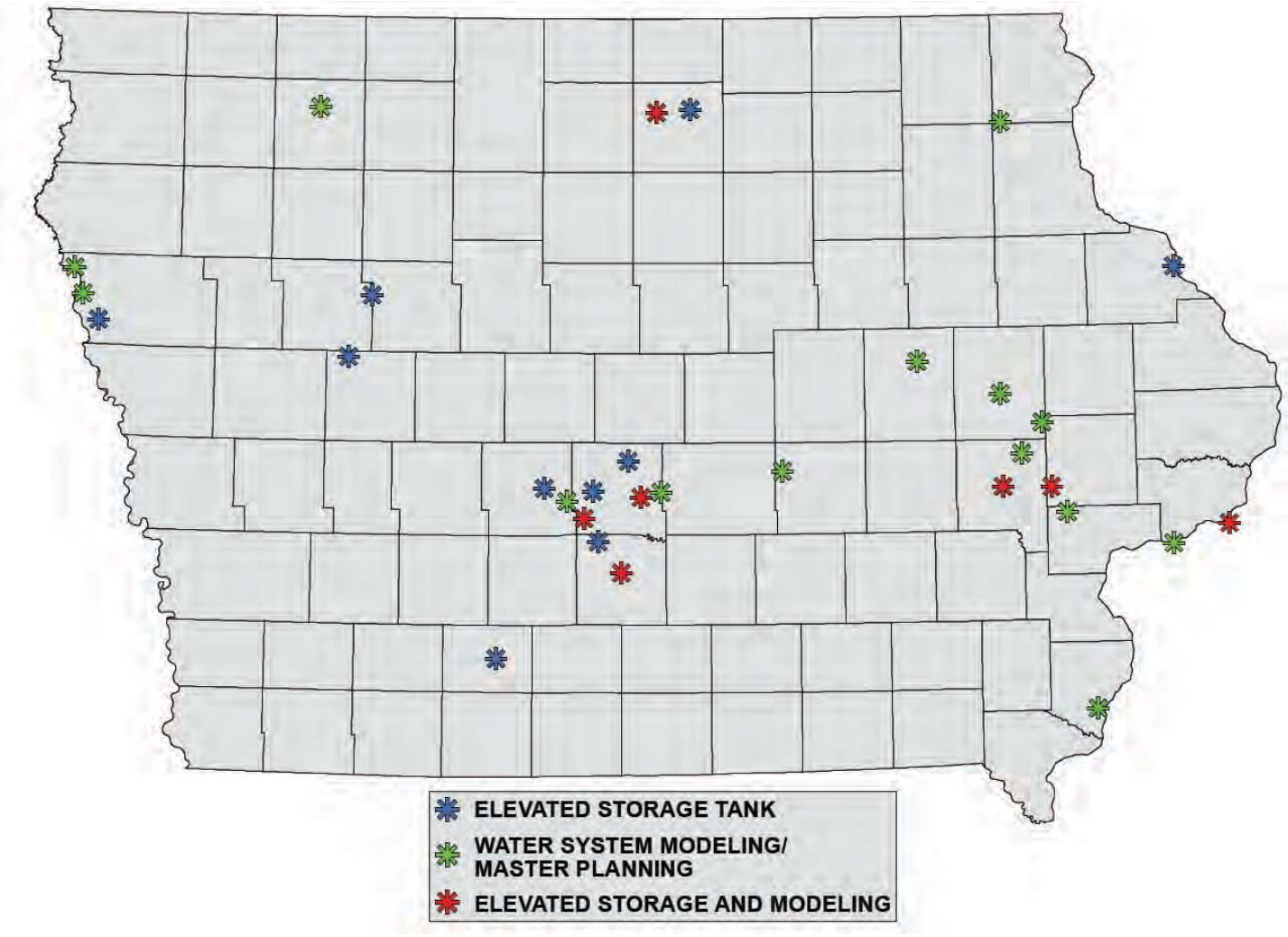
EDUCATION
Morrison Institute of Technology

EXPERTISE
Inspection

PROJECT OVERVIEW

Veenstra & Kimm, Inc. is widely considered by many to be the leading consultant in the Midwest in assisting communities with planning, design, and construction for water systems. We believe that in the Midwest, we have designed more Elevated Storage Tanks over 1,000,000-Gallons than any other firm.

Not only does Veenstra & Kimm, Inc. provide the normal design and construction of water source, treatment, storage and distribution facilities, but we provide planning services as well as coating systems engineering. We have provided modeling and master planning services for many of the fastest growing cities in the Midwest. We are familiar with the challenges the topography of river communities presents and know how to model and plan for the large demands of industries and growth. On the tail end of the project, we are unique to the consultants in that we employ SSPC Certified Coating Specialist on staff. We are able to assess existing coating systems and properly specify new coating systems critical to extending the life of any storage facility.



LOCATIONS & TYPE

Water System Modeling & Master Planning
Altoona, Iowa
Andalusia, Illinois
Burlington, Iowa
Clear Lake, Iowa
Coralville, Iowa
East Moline, Illinois
Grinnell, Iowa
Indianola, Iowa
Lisbon, Iowa
Marion, Iowa
Postville, Iowa
Sergeant Bluff, Iowa
Sioux City, Iowa
Solon, Iowa
Spencer, Iowa
Vinton, Iowa
Waukee, Iowa
West Branch, Iowa
WDM Water Works, Iowa
West Liberty, Iowa

Booster Stations	
Location	Booster Station
Clinton, Iowa	North End Booster Station
Marion Water Department	Booster Station Improvements
WDM Water Works	50th Street Booster Station
Coralville, Iowa	Camp Cardinal Booster Station
Ankeny, Iowa	Northwest Booster Station
Marion Water Department	Well No. 7 Booster Station
Solon, Iowa	GSR & Booster Station
Marion Water Department	29th Avenue Booster Station
Lisbon, Iowa	Washington Street Booster Station
Burlington Municipal Water Works	GSR & Booster Station Rehabilitation
Hiawatha Water Board	Booster Station Improvements
Davenport, Iowa	60th Street Booster Station

Elevated Storage Tanks		
Location	Size	Type
Breda, Iowa	100,000	Single Pedestal
East Moline (10th Street), Illinois	500,000	Fluted Pillar
Clear Lake NW, Iowa	1,000,000	Composite
Salix, Iowa	125,000	Single Pedestal
West Branch, Iowa	250,000	Single Pedestal
Dallas Center, Iowa	200,000	Single Pedestal
Johnston Northwest Tower, Iowa	1,000,000	Fluted Pillar
Clear Lake East, Iowa	1,000,000	Composite
Elkhart, Iowa	150,000	Single Pedestal
Clear Lake, Iowa	1,000,000	Composite
Indianola Municipal Utilities, Iowa	1,000,000	Fluted Pillar
Mason City (43rd), Iowa	1,000,000	Composite
Altoona, Iowa	1,750,000	Composite
Dubuque, Iowa	1,250,000	Composite
Lytton, Iowa	250,000	Single Pedestal
Norwalk, Iowa	1,000,000	Fluted Pillar
Coralville, Iowa	1,500,000	Fluted Pillar
Johnston, Iowa	1,000,000	Fluted Pillar
West Des Moines, Iowa	750,000	Fluted Pillar
Indianola, Iowa	1,000,000	Fluted Pillar
WDM Water Works, Iowa	2,000,000	Fluted Pillar
Afton, Iowa	100,000	Double Cone
WDM Water Works, Iowa	1,000,000	Fluted Pillar

Raccoon River Transmission Main
West Des Moines Water Works

Veenstra & Kimm, Inc. was retained by the West Des Moines Water Works to develop a new transmission main to extend the raw water transmission main to the Raccoon River Park well field. The transmission main was designed and constructed as part of the project to construct 12 shallow wells and 1 deep well in the Raccoon River Park.

The raw water transmission main involved approximately 13,000 linear feet of pipe. The project consisted of the primary raw water transmission main and extension of the transmission main to individual well sites in the Raccoon River Park. The transmission main ranged in size from 20-inch diameter to 8-inch diameter. The total cost for the transmission main project was approximately $520,000.

Blue Grass Transmission Main
Iowa American Water Company

The Blue Grass Transmission Main and Booster Station project involved installing 16,400 linear feet of 12-inch water main to connect the City of Blue Grass to the Iowa American Water Company (Davenport) distribution system and an associated prefabricated "skid" water booster station to meet extended system pressure needs. The new transmission main crossed State Highway 61, which involved installation of a jack-and-bored 24-inch casing highway crossing. Veenstra & Kimm, Inc. provided the survey, water main design, booster station foundation and electrical design, process piping conversion design in the Blue Grass Water Treatment Plant, and submitted IDOT and IDNR permit applications.

The project was designed in 2018 and constructed in 2019.

Transmission Main Extension
Dallas Center, Iowa

Veenstra & Kimm, Inc. has worked with the City of Dallas Center on the development and construction of four new shallow wells. The new shallow wells have completely replaced the original well field. The new well field is located northerly of the original well field.

In conjunction with the well projects, Veenstra & Kimm, Inc. has designed extensions to the raw water transmission main. The raw water transmission main extension projects have been associated with three of the four well projects. Each of the transmission main projects was designed and constructed as a separate contract from the well improvement projects.

The raw water transmission main consists of 6-inch and 8-inch transmission main. The longest reach of transmission main was approximately 3,000 linear feet and was constructed in conjunction with Well No. 8. The total length of the transmission main associated with the new well field is approximately 5,500 linear feet.

Camp Cardinal Blvd Booster Station
Coralville, Iowa

In 2010, the City of Coralville contacted Veenstra & Kimm, Inc. regarding the development of Coralville's south annexation area. The City indicated they were moving forward with the development. Veenstra & Kimm, Inc. worked with the Developer and the City to model the annexation area and recommend improvements necessary to serve the area including booster station and water main improvements for this area.

Part of the design for the booster station included a diesel engine generator (200 KW, voltage of 480 volts AC, 3 phase, 3 wire, 60 hertz). The generator included an automatic transfer switch, and integration of the standby power and booster station controls with a control system of the water treatment plant via fiber optics network.

Veenstra & Kimm, Inc. prepared the plans and specifications for the booster station and water main projects as well as managed construction of the project and coordination with the electrical utility.

50th Street Booster Station
West Des Moines Water Works

This booster station was constructed west of 50th Street and south of University Avenue to serve the West Des Moines Water Works' distribution system located west of Interstate 80. This portion of the distribution system can be served by the West Des Moines Water Works through the booster station or from a connection to the 88th Street water main of the Des Moines Water Works. Initially the West Des Moines Water Works relied heavily on the 50th Street Booster Station. In recent years since the development of the medical campus the West Des Moines Water Works has relied more heavily on the Des Moines Water Works' connection in order to provide a consistent water quality.

The 50th Street Booster Station was designed with one 1,000 gpm pump and two 1,500 gpm pumps. The booster station was designed so it could have been expanded at a future date to accommodate up to two more booster pumps.

The initial design included provisions to pump against a closed system. The closed system valves are in a separate valve train that could be eliminated if the booster station is expanded at a future date. The closed system elements were designed to be abandoned in place once the booster station pumped against a water tower. Approximately six years after the booster station was completed, a tower was constructed and the closed system elements of the booster station were valved closed and left in place.

The booster station is located in a brick and block building located in a commercial area near the West Des Moines Lowes store on 50th Street. The 50th Street Booster Station was designed without standby power as the distribution system can automatically be supplied from an alternate source in the event of a booster station power failure.

North End Booster Station
Clinton, Iowa

Veenstra & Kimm, Inc. was hired in 2014 to provide booster station improvements to the North End Booster Station in Clinton, Iowa. The project included significant pipe changes and adding a combination pressure reducing and pressure sustaining valves.

The plans were completed in 2014 with the Cleveland Area Water Main Improvements. The project was approved through the Iowa DNR and constructed in 2018.

Leo Foley was the project manager for the water main improvements and booster station improvements.

Booster Station Improvements
Marion Water Department

The City of Marion has been experiencing rapid growth and needed to expand its current system capacity to allow for continued growth. The booster station was designed to house Well #7, associated booster pumps, and chemical feed. The Water Department expressed a desire to have standby power at this location to provide system reliability in the event of a power outage.

Veenstra & Kimm, Inc. was retained to determine appropriate size, location and operation of the standby generator and transfer switch as part of the overall booster station design. The booster station utilizes 480 volt power to operate a 350 hp well pump and two 100 hp booster pumps.

The water department requested that the generator be located near the booster station building; however, this site presented special issues due to the well site separation requirements for fuel storage at the generator. Alternatives to diesel fuel generators were considered as well as alternate generator locations. Coordination with the Iowa DNR was essential and a diesel generator was eventually installed at the location originally selected by the City with agreement from the Iowa DNR.

The standby power system designed by Veenstra & Kimm, Inc. utilizes a 600 KW diesel driven generator set operating at 480 volts. The project included a soft start motor for the well pump and variable frequency drives for the two booster pumps. The project included an automatic transfer switch and integration of the standby power with the Water Department's existing SCADA system.

Veenstra & Kimm, Inc. worked with Linn County REC, the local power supplier, to select a rate structure which would allow for reduced rates during off-peak hours. Veenstra & Kimm, Inc. then provided design of the SCADA to optimize the operation to take advantage of the reduced off-peak rates.

The cost for the standby power system was approximately $200,000. The total project including construction of site improvements, booster station building, and equipment was approximately $1,020,000.

10th Street Water Main Improvements
East Moline, Illinois

This project was the installation of a main water plant product outflow from the water plant to the controlling water tower on the hill on 10th Street from 14th Avenue to 18th Avenue. This contract was bid on October 28, 2010, one part of a multi contract water system project for the plant and various water tower improvements that increased capacity and safety to the system. The project came in on a bid of $456,000 with an estimate of $500,000.

In this project there was construction of 1,550 feet of 16-inch diameter water main in an open cut through a Mississippi old river town downtown removing existing water plant ground storage and connecting to water towers on the bluff that were replaced under a different contract. This project consisted of crossing and paralleling IDOT State Route 92, permitting, and negotiating a utility easement/permit with a RR and surface restoration. This SRF project was done in a timely manner started as soon as winter broke in March and finished under budget and ahead of schedule on June 21, 2011.

W. Center & 2nd Street Water Main
Cambridge, Illinois

The Village of Cambridge was having excessive water main breaks on a stretch of older transite water main that was due to be upgraded.

Veenstra & Kimm, Inc. was hired in the winter of 2014 to provide services for constructing and designing replacement of 950 feet of 4-inch water main with 8-inch water main along State Route 81 in Cambridge, Illinois. The water main was directionally bored along West Center Street from 1st to 2nd and then south for one block to Court Street. Patching was kept to a minimum and three sidewalk ramps were constructed to ADA requirements. Two intersections were improved, drainage repaired and a traffic hazard was removed.

The water main was extended in an economical manner, both by engineering design and construction with a short turnaround from inception to substantial completion before summer. Permits from IDOT and the IEPA were acquired in an expedited time frame. This project significantly upgraded the Village's infrastructure. This project was an excellent improvement done at an economical cost.

Water Distribution System Model
Burlington Waterworks

Veenstra & Kimm, Inc. was hired by Burlington Municipal Waterworks to develop a system-wide water distribution system model. The Waterworks had an earlier version K pipe model that was used as the starting point for this project. H2O Net was used as the modeling platform.

The Burlington Waterworks water distribution system exhibits significant elevation differences from the Mississippi River to the higher elevations along Highway 61. The system includes piping that is well over 100 years old and in some cases cast iron with lead joints. Because of the vast differences in elevation, the Waterworks has had historic low-pressure areas with inadequate fire flows. The older parts of the City contain a large number of small diameter water mains.

A hydraulic model was created and calibrated then presented to the Waterworks along with the recommendations for several system improvements. The vast majority of these system improvements include additional storage, upgrading pumping capacities, pressure zone separation and system extensions. Since the submittal of the report, Veenstra & Kimm, Inc. has developed a financial plan to pay for the needed improvements.

Water Distribution System
Coralville, Iowa

The City of Coralville water system provides treated water for over 20,000 residents, numerous hotels, restaurants, commercial buildings, and the Oakdale Prison. The existing system is divided into multiple pressure zones. The system has three elevated storage towers, two ground storage reservoirs and one booster station that pumps water from the ground storage reservoirs to the pressure zones.

Facility planning and water system modeling was undertaken in order to develop recommendations which addressed existing fire-fighting deficiencies and the rapidly expanding needs of the water system. This eastern Iowa community is one of the state's fastest growing communities. The community's fire department historically had difficulty putting out fires in the older part of the community in the area bounded by Highway 6 on the south and First Avenue on the east. The community's rapid growth also created the need to expand the water system west to Interstate 380 and north to the corporate limits. The community was also planning water facilities for a number of large commercial developments, which included the Coral Ridge Mall along Interstate 80. The City staff determined that in order to properly respond to the above-mentioned system challenges, it would be necessary to develop a comprehensive water facility model which would evaluate the following: treatment and high service pumping capacity, storage, existing distribution system, land use (water demand), and future distribution system configurations.

This model has been used to evaluate the impacts and costs of system improvements that were needed or proposed as a result of growth. The ongoing use of the model has been instrumental in identifying cost-effect solutions to annexation efforts and other planned system growth.

Water System Improvements
Marion Water Department

As another rapidly growing community, the Marion Water Department selected Veenstra & Kimm, Inc. to prepare a model of their system and implement a number of system improvements. Through the years, we initially provided design and construction services for a new Jordan Well #6, booster station, and steel ground storage tank. Veenstra & Kimm, Inc. was subsequently retained by the Marion Water Department for engineering services when the City required additional water system capacity. This project consisted of designing Well #7 with an accompanying booster station and 1.0 MG prestressed concrete ground storage tank at the same location.

A well siting study and water model were prepared for the Marion Water Department in order to evaluate the impact the well and booster station would have on the fire flow and water quality. The engineering report prepared by another consultant prior to the project was rewritten to comply with Design Standards and correct inaccurate information.

Well #7 was designed to produce 1,500 gallons per minute. The design included an oversized casing for future relining. Water from this well is pumped through an aerator and into the ground storage tank. The 1.0 MG prestressed concrete ground storage tank provides system storage.

The nearby booster station pumps water from the ground storage tank. Upon entering the booster station the water is disinfected using gas chlorination, metered and pumped into the distribution system. The booster station capacity was designed to provide additional fire-flow capability for the recently constructed elementary school. The system model has been continually updated and consulted to help guide system improvements and physical growth.

Water System Study & Improvements
East Moline, Illinois

The City of East Moline provides treated water for the City of East Moline with emergency connections to Moline, Hampton, and Silvis. The City also provides water to IBP/Tyson foods in Joslin. The existing system is divided into multiple pressure zones. The system has five elevated storage towers, one ground storage reservoir and two booster stations.

Veenstra & Kimm, Inc. has been retained by East Moline for several water system improvements over the years. These improvements have included source, treatment, storage and distribution improvements.

Additionally, Veenstra & Kimm, Inc. was hired by East Moline to expand the previous water distribution system model to include the entire system. The model was updated and used to evaluate the impacts of adding a large industrial user to the low-pressure zone. Upon evaluating the system, recommendations were made to reconfigure the system to create a third pressure zone and add two new elevated storage towers. Several improvements were also recommended to improve flow between two existing towers in the low-pressure zone.

New high service pumps were evaluated at the water treatment plant to serve the existing low-pressure zone and the proposed new pressure zone. Fire flow analysis was conducted on the existing system and on the proposed system to verify that all existing areas maintained or increased the available fire flow when the system was reconfigured.

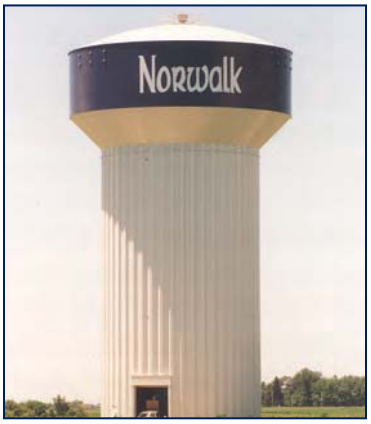
Following preparation of a calibrated model, Veenstra & Kimm, Inc. worked with water department staff to discuss known problem areas in the distribution system. These areas influence the nature of proposed improvements and are used in conjunction with model analysis to evaluate options to address system deficiencies.

10th Street Water Tower
East Moline, Illinois

TANK SIZE: 500,000 gallons
TANK STYLE: Spherical Tank
TANK OVERFLOW HEIGHT: 120'
TANK MANUFACTURER/CONTRACTOR: Caldwell Tanks, Inc.
CONSTRUCTION COST: $1,678,835
FUNDING: Water Revenue Bonds

1MG Elevated Storage Tank
Norwalk, Iowa

TANK SIZE: 1,000,000 gallons
TANK STYLE: Hydropillar (Fluted Pillar)
TANK OVERFLOW HEIGHT: 123' 6"
TANK MANUFACTURER/CONTRACTOR: Pittsburgh - Des Moines, Inc.
CONSTRUCTION COST: $1,043,000
FUNDING: Drinking Water SRF

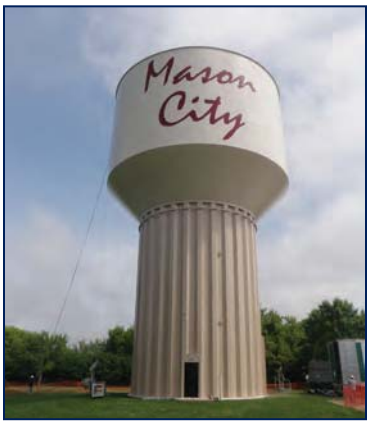


1.5MG Elevated Storage Tank
Coralville, Iowa

TANK SIZE: 1,500,000 gallons
TANK STYLE: Fluted Pillar (Pedestal)
TANK OVERFLOW HEIGHT: 110' 6"
TANK MANUFACTURER/CONTRACTOR: CB&I Constructors, Inc.
CONSTRUCTION COST: $1,222,000
FUNDING: Water Revenue Bonds

South Hoover Water Tower
Mason, City, Iowa

TANK SIZE: 500,000 gallons
TANK STYLE: Steel Fluted Pillar
TANK OVERFLOW HEIGHT: 81'
TANK REHABILITATION CONTRACTOR: JR Stelzer Co.
CONSTRUCTION COST: $176,000
FUNDING: Water Reserves



43rd Street Water Tower
Mason City, Iowa

TANK SIZE: 1,000,000 gallons
TANK STYLE: Composite Elevated Tank (CET)
TANK OVERFLOW HEIGHT: 112'
TANK MANUFACTURER/CONTRACTOR: CB&I Constructors, Inc.
CONSTRUCTION COST: $1,396,394
FUNDING: EDA Grant & Water Utility Revenues

West Water Tower
Altoona, Iowa

TANK SIZE: 1,750,000 gallons
TANK STYLE: Composite Elevated Tank (CET)
TANK OVERFLOW HEIGHT: 130'
TANK MANUFACTURER/CONTRACTOR: CB&I Constructors, Inc.
CONSTRUCTION COST: $1,700,000
FUNDING: Water Revenue

West Area Elevated Storage Tank
Johnston, Iowa

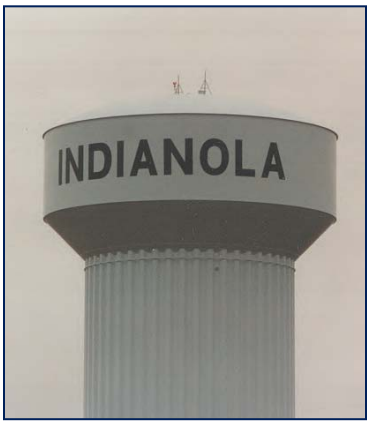
TANK SIZE: 1,000,000 gallons
TANK STYLE: Hydropillar (Fluted Pillar)
TANK OVERFLOW HEIGHT: 130' 6"
TANK MANUFACTURER/CONTRACTOR: Pittsburgh - Des Moines, Inc.
CONSTRUCTION COST: $1,038,000
FUNDING: Water Revenue Bonds

East Water Tower
Clear Lake, Iowa

TANK SIZE: 1,000,000 gallons
TANK STYLE: Composite Elevated Tank (CET)
TANK OVERFLOW HEIGHT: 150'
TANK MANUFACTURER/CONTRACTOR: Landmark Structures, I.L.P.
CONSTRUCTION COST: $1,904,226
FUNDING: Water Utility Revenues, TIF Revenues & GO Bonds

1MG Elevated Storage Tank
Indianola, Iowa

TANK SIZE: 1,000,000 gallons
TANK STYLE: Hydropillar (Fluted Pillar)
TANK OVERFLOW HEIGHT: 126'
TANK MANUFACTURER/CONTRACTOR: Pittsburgh - Des Moines, Inc.
CONSTRUCTION COST: $830,350
FUNDING: Water Utility Reserves and Water Revenue Bonds

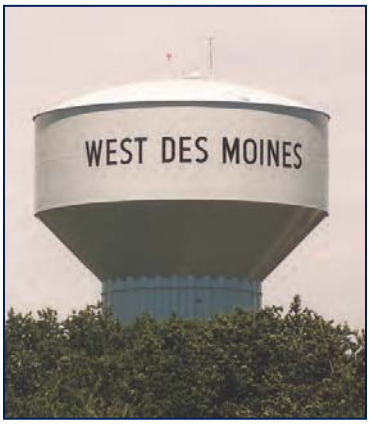


Northwest Water Tower
Clear Lake, Iowa

TANK SIZE: 1,000,000 gallons
TANK STYLE: Composite Elevated Tank (CET)
TANK OVERFLOW HEIGHT: 119'
TANK MANUFACTURER/CONTRACTOR: Landmark Structures, I.L.P.
CONSTRUCTION COST: $2,225,300
FUNDING: Water utility Revenues, TIF Revenues & GO Bonds

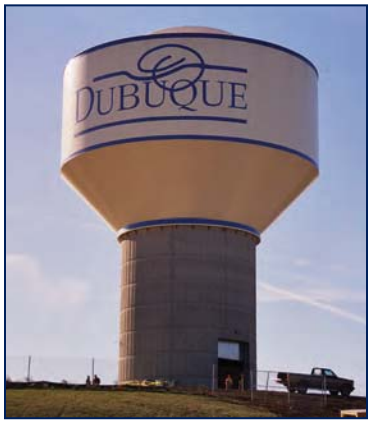
17th Street Elevated Storage Tank
West Des Moines, Iowa

TANK SIZE: 750,000 gallons
TANK STYLE: Hydropillar (Fluted Pillar)
TANK OVERFLOW HEIGHT: 125'
TANK MANUFACTURER/CONTRACTOR: Pittsburgh - Des Moines, Inc.
CONSTRUCTION COST: $869,000
FUNDING: Water Revenue Bonds



Fourth Zone Water Tower
Dubuque, Iowa

TANK SIZE: 1,250,000 gallons
TANK STYLE: Composite Elevated Tank (CET)
TANK OVERFLOW HEIGHT: 98'
TANK MANUFACTURER/CONTRACTOR: Landmark Structures, I.L.P.
CONSTRUCTION COST: $1,235,000
FUNDING: Reserves and Water Revenue Bonds



GOALS

YOUR GOALS	KEY CHALLENGE	OUR APPROACH	YOUR BENEFIT
Goal 1: Create a working model of the water system	Large, Multi-Zone System with Limited Funds	Maximize the amount of the model that can be built with available budget	A functional model by which you can evaluate changes and growth, saving you money
Goal 2: Increase pressure and storage in zone by Niabi Zoo	Determine Size and Elevation	Utilizing our extensive modeling experience, examine past studies and current variables to present options	Having a choice to balance long term needs with short term impacts
Goal 3: Allow redundancy between pressure zones and revise zones	Topography and Existing Infrastructure	Identifying options to minimize the number of times a drop of water is pumped while using existing infrastructure	Money saved on energy and maintenance
Goal 4: Manage Growth	Future Water Needs	Utilize the Staff knowledge to project current and future demands to balance storage demands and water quality.	Better economically positioned for smart growth

TASK 1:	Complete a calibrated model of two zones and what is necessary in a third zone to ensure zone issues of low pressure and low flows can be improved with the proposed Water Tower.
TASK 2:	Preliminary design to determine need, size and location for any mains, well pump upgrades, pressure reducing stations, and booster pumps needed to efficiently operate with the proposed Water Tower in operation.
TASK 3:	Complete preliminary design of the site plan, storage size operating range, and overflow heights for the proposed Water Tower.
TASK 4:	Complete the Illinois SRF Preliminary Engineering Report, IUP, archaeological/ environmental assessment (ARCH/EA) and self-viability assessment.
TASK 5:	Complete final plans and specifications of the proposed Water Tower and any main, pump, or pressure reducing valve infrastructure.
TASK 6:	Assist with bidding the project including bid documents, bid opening, bid review, and recommendation of award.
TASK 7:	Construction administration and construction observation to ensure construction is completed per the plans and specifications.

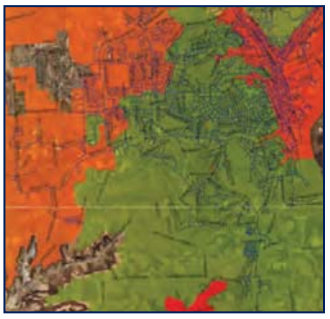
TASK 1

WATER DISTRIBUTION SYSTEM MODEL CREATION AND ANALYSIS

Water System Model

Veenstra & Kimm, Inc. will develop a computer model of the Village's two zones and portions of the third zone. The model will be able to provide dynamic water analysis by inputting parameters such as pump performance, level set points, control valves, diurnal and local demand, and pipe parameters (size, material, etc.). The model will be provided with the option of including future water system infrastructure (pipes, valves, pumps, storage reservoirs, etc.). The model will have the ability to perform fire flow analysis and water age analysis. Veenstra & Kimm, Inc. intends on evaluating scenarios within the model to improve operation and efficiency. To accomplish this, we intend on evaluating and presenting scenarios beyond those identified by the Village for your consideration.

Veenstra & Kimm, Inc. proposes utilizing the H2ONet software as manufactured by MWH Soft. Veenstra & Kimm, Inc. staff will conduct hydrant flow tests on not less than 10% of hydrants included in the distribution system to be modeled.



Veenstra & Kimm, Inc. will calibrate the new model to actual flow testing pressures, demand and usage patterns, and pump testing data. Veenstra & Kimm, Inc. will calculate individual water usage for four demand conditions. The four demand conditions calculated will be average annual, average winter, peak day, and peak hour demand. Diurnal water use patterns will need to be developed and entered into the model.

Veenstra & Kimm, Inc. will document and report all assumptions, methodologies, and quality assurance/quality control (QA/QC) used in model development.

Water Distribution System Analysis

Veenstra & Kimm, Inc. will perform a water age analysis for the water model. The model time period for each scenario will be set sufficiently long to achieve water age equilibrium.

Veenstra & Kimm, Inc. will perform a fire-flow evaluation using the water model. The model shall allow for temporary fire flow to be assigned at any point in the system for evaluating fire flow capacity. The model output shall include a color map indicating available flow and a printout including exported pressure and flow data. The report shall identify locations at which the pressure falls below minimum levels as designated by the Village.

The water model will be instrumental in determining pressures and flows while the proposed Water Tower is in operation. Veenstra & Kimm, Inc. will model impacts of various storage sizes and operating ranges for the proposed water tower. Veenstra & Kimm, Inc. will also model alternative locations for connecting pressure zones to determine if any obvious changes could help other zones. Locations of pressure reducing stations associated pumping changes and main sizes will be modeled to determine maximum benefits and associated construction and operation costs.

Water Distribution System Report and Presentation

Veenstra & Kimm, Inc. will provide the Village with a technical report detailing model methodology and development, water age analysis results, and fire flow analysis results detailing system deficiencies. The report will include necessary supporting documentation. Veenstra & Kimm, Inc. will make presentations as required to the Public, the Village of Coal Valley Board, and Village staff.

TASK 2

PRELIMINARY SYSTEM DESIGN

After analysis of the model and a determination of the operational direction of the system, Veenstra & Kimm, Inc.'s team will prepare preliminary design of the water main connections, pressure reducing valves, and pumping improvements required to operate the system as determined by the analysis. It is anticipated that there will be interzone connectivity between zones that will need to be completed, dependent on the operational option selected.

Pumping capacities at the source location will also needed to be improved. At this point in the project, examination of operational flexibility and redundancy will need to examined and addressed. Preliminary sizing and location of facilities will occur.

TASK 3

PRELIMINARY TOWER DESIGN

Geotechnical Investigation

The Scope of Services did not specifically identify geotechnical investigation. It is generally advisable to complete soil borings at the exact location where the foundation of the tower will be located. This information is used to assist in the design of the foundation for the tower. The tower foundation design procedure is generally two-fold. First, the geotechnical information is evaluated by the design engineer to determine the anticipated foundation design. While the final foundation design is the responsibility of the contractor, Veenstra & Kimm, Inc. believes it is important for the design engineer to evaluate the geotechnical conditions and determine the anticipated type of foundation. The type of foundation construction can significantly affect the cost for construction of the tower. If soil conditions are suitable for a simple spread footing foundation, the cost of the tower construction will be the lowest. If soil conditions are unsuitable and require a more elaborate foundation, the cost can increase. The depth of the bedrock formation with respect to the ground surface also affects the design of the foundation and the cost of the tank. Veenstra & Kimm, Inc. utilizes the geotechnical information in determining the cost and general design parameters for the foundation. Veenstra & Kimm, Inc. anticipates utilizing Terracon Consultants or Team Services for this work.

Elevated Storage Tank Design

The modeling analysis will aid in determining how the Village chooses to operate the system going forward. This decision will dictate the volume and elevation of the tower. This determination will allow proceeding with the preliminary design of the tower. Based on our experience, Veenstra & Kimm, Inc. believes that alternate bidding is a way to enhance the project.

Alternative Bidding

There are two approaches which are available when a community is considering multiple alternatives. One approach is for the Village to select its preferred alternative and to bid only that alternative. The other approach is to bid more than one alternative.

Veenstra & Kimm, Inc. has been an advocate of the concept of bidding multiple alternatives for a tank project. Our experience has shown the cost for multiple tank design is relatively small. Generally, the multiple tank design includes only a few sections of the special provision and a few details on the plan drawing. By bidding multiple alternatives the Village is able to determine the actual cost of various alternatives and make a determination on the size or style of tank to be constructed.

With the consolidation of tank contractors in recent years there also appears to be a second advantage of bidding alternatives. This advantage is a competitive advantage. By bidding multiple alternatives the number of contractors which may be competitive can be increased. This procedure will generally ensure there is the maximum competition possible in the bidding phase of the project.

By bidding alternate tank styles it is frequently possible to ensure there is greater competition. This has become a somewhat greater issue over the past few years as the number of vendors for a fluted pillar design has continued to decrease.

Veenstra & Kimm, Inc. has developed a procedure to bid independent alternatives within the same contract documents. In effect, the Village receives bids for multiple independent projects. The Village selects the project and awards contract to the low bidder for the project selected. For example, if the Village were to bid both a fluted pillar design and a composite design, the Village would receive bids on both alternatives. The Village would then select the type of tank to construct. Once the type of tank is selected, the Village would award contract to the low bidder for that tank style.

The advantage of this procedure is to provide competition and yet to allow the Village to retain control over the final selection of the tank style. This procedure is developed in a manner which makes it clear the contract is awarded based on the tank style selected without regard to whether this tank style is the less costly style. The Village would have the flexibility to consider award of contract to a costlier alternative if that alternative better met the long term needs and objectives of the Village.

Although it is the Village's decision whether to select a single alternative or bid multiple alternatives, Veenstra & Kimm, Inc. would suggest the Village may wish to consider the multiple alternative bidding if it is seriously considering alternative design styles.

TASK 4

PRELIMINARY ENGINEERING REPORT AND SRF DOCUMENTATION

After modeling and geotechnical investigations are completed, the SRF Preliminary Engineering Report (PER) and associated documents will be completed. The PER will have enough detail to provide size of tower, location and size of pressure reducing stations, booster pump station, pumping improvements required, and size and location of interconnecting mains. It is anticipated that the majority of the water tower system improvements will be located in existing city street ROW. Veenstra & Kimm, Inc.'s team will include Tall Grass Historians to provide support on archaeological and historical documentation at the proposed Water Tower site as well as any necessary system improvements. During the completion of the PER Veenstra & Kimm, Inc. will work with the Village staff to complete the financial viability requirements. On a recent water project for the Village of Cambridge, Veenstra & Kimm, Inc. worked with the IEPA to obtain a 75% forgivable loan for the Village.

TASK 5

FINAL SYSTEM AND TOWER DESIGN

Veenstra & Kimm, Inc.'s team will complete final design documents for the water main connections, pressure reducing valves, booster pump station, and pumping improvements as well as the elevated storage tank and site improvements. Final design will also entail control integration into the Village's control system. The final design will conclude with signed and sealed documents for permitting and bidding.

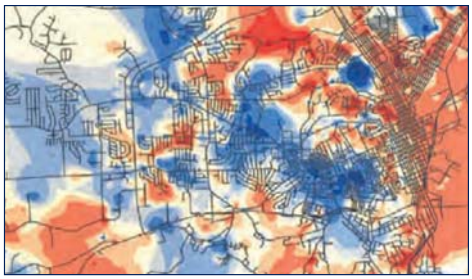
Veenstra & Kimm, Inc. will assist the Village in completion of construction permit applications. We will provide the construction permit applications for the water tower and system improvements for signature by the Village and will ensure the Village obtains a copy of the issued permits.

TASK 6

BIDDING

Veenstra and Kimm, Inc. will assist the Village with the bidding process. This will entail the preparation of bidding documents and answering questions during bidding. We will issue addenda during bidding if necessary for changes or clarification if required. Will attend and facilitate a bid opening followed by a review of the bidders and bidding submittals. Our final deliverable during this task will be a written recommendation of award.

TASK 7



CONSTRUCTION ADMINISTRATION

The Engineers shall provide Construction Administration services during construction including, but not limited to, the following:

a. Coordinate a preconstruction meeting.
b. Consult with and advise Owner.
c. Coordinate work of testing laboratories.
d. Assist in interpretation of plans and specifications.
e. Review shop drawings and data of manufacturers.
f. Process and certify payment estimates of the Contractor to Owner.
g. Prepare and process necessary change orders or modifications to the construction contract.
h. Make routine and special trips to the Project site as required.
i. Make final reviews after construction contracts are completed to determine that the construction complies with the plans and specifications and certify that the reviews were made and that to the best of the knowledge and belief of the Engineers, the work on the contracts has been substantially completed.
j. Provide oversight for the SRF requirements including Davis-Bacon required documents as well as American Iron and Steel documentation.

CONSTRUCTION OBSERVATION

Construction Observation services are understood to include the detailed observation and review of the work of the contractor and materials for substantial compliance with the plans and specifications. The Engineers shall provide resident review services by assigning resident engineers and/or engineering technicians to the Project for such periods as may be reasonably required to observe and review the construction work. The personnel assigned and the period of such assignment shall be subject to the agreement of the parties.

CLIENTS

We encourage the Village of Coal Valley to contact our references with respect to the quality of the work performed by Veenstra & Kimm, Inc. We believe our references are in the best position to speak to the quality of our services on project development, project design, project construction, and after the project has been successfully completed.

East Moline, Illinois
LEATH "CHIP" DRAKE, Director of Water Facilities 309-752-1520

Village of Cambridge, Illinois
STEVE BROWN, Village Administrator 309-937-2626

Burlington Municipal Water Works
SHANE JOHNSON, General Manager 319-754-6501

Coralville, Iowa
DAN HOLDERNESS, City Engineer 319-351-9069

Dubuque, Iowa
DENISE BLAKLEY IHRIG, Water Department Manager 563-589-4291

Elkhart, Iowa
JULIE UNGER, City Clerk 515-367-4735

Gilbertville, Iowa
ROB WERNER, Public Works Director 641-485-6353

Granger, Iowa
ANITA GIBBS, City Clerk 515-999-2210

Indianola Municipal Utilities
LOU ELBERT, Water Superintendent 515-987-4363

Johnston, Iowa
JAMES SANDERS, City Administrator 515-278-2344

Marion, Iowa
TODD STEIGERWALDT, General Manager, Water Department 319-743-6310

Norwalk, Iowa
DEAN YORDI, Public Works Director 515-981-0228

West Branch, Iowa
BRIAN BRENNAN, Public Works Director 319-643-5888

West Liberty, Iowa
LAWRENCE MCNAUL, City Manager 319-627-2883

KLINGNER
& ASSOCIATES, P.C.
Engineers • Architects • Surveyors

Your Partner for Water Solutions

KLINGNER'S QUALIFICATIONS FOR

THE VILLAGE OF COAL VALLEY

CONSULTANT ENGINEERING SERVICES FOR
NIABI ZOO ROAD WATER MAIN PROJECT
NOVEMBER 15, 2019

Village of Coal Valley
Attn: Annette Ernst, Village Administrator
900 1st Street
PO Box 105
Coal Valley, Illinois 61240
(309) 799-3604

Re: Qualifications for Professional Engineering Services for the Niabi Zoo Road Water Main Project

Dear Ms. Ernst and Selection Committee:

Klingner & Associates, P.C. (Klingner) is pleased to submit our Statement of Qualifications to the Village of Coal Valley for Professional Engineering Services for the Naibi Zoo Road Water Main Project. Klingner understands the current scope of work for Coal Valley's water main project and will work together with the Village to determine necessary upgrades and resolve issues tying into the existing system. We have extensive experience in providing consulting, design, and permitting services to numerous municipal clients since the 1940s. We maintain a practical, "common sense" approach in our planning and design so related facilities are both easy to operate and are energy efficient.

Klingner has been involved in the design and construction of over 1 million linear feet of water mains, extensions, and replacements. We have also designed over 100 elevated water storage tanks. Working for both large and small communities, our relevant clients include: Galesburg, IL; Aledo, IL; South Fulton Water District; West Prairie Water District; Village of Hopewell, IL; and the Village of Wataga, IL, among others. Our work has included planning and design of water distributions systems for subdivisions and for small and large communities.

Key to any one of our successful designs is a focus on cost. With Klingner, clients know that plans are carefully built to avoid over design and redesign. Extensive construction management experience has also taught us to accurately identify the scope and unit process for any project. In fact, Klingner's recent cost estimates have come within 5.0% of the contractor's bid. Knowing that our solutions stand the test of time, Klingner's clients aren't merely choosing a cost-effective design now — they are choosing to save costs for their municipality years after a project has been completed.

Finally, we have significant experience and are in regular communication with regulatory agencies such as the Illinois Department of Natural Resources (IDNR), the Illinois Environmental Protection Agency (IEPA), and the Illinois Historic Preservation Agency (IHPA) for permitting and assisting communities with facility improvements. We have also worked extensively with funding sources, such as USDA-Rural Development and grant programs.

We welcome the opportunity to combine our dedicated expertise with the goals and needs of the Village of Coal Valley. Please feel free to reach out to me with any questions.

Sincerely,

Mark C. Lee, PE
Project Manager

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PRIMARY CONTACT
Mark C. Lee, PE
Project Manager
Branch Office Manager
Office: 309-343-1268
Cell: 309-306-1447
mlee@klingner.com
Klingner & Associates, P.C.
49 N. Prairie Street
Galesburg | IL | 61401

114 YEARS AND COUNTING

KLINGNER'S FIRM PROFILE

Klingner is your one-call solution for Architectural, Engineering, Environmental, Geotechnical, and Land Surveying services. Our multidisciplinary, collaborative approach teamed with years of joint project experience ensures quick problem-solving throughout planning, design, and construction phases.

WHO WE ARE

Klingner has provided professional services to the Midwest for over 110 years. Originally founded in 1905 as Bushnell Engineering, William H. Klingner became a partner of the firm in 1936. In 1985, the firm was incorporated as Klingner & Associates, P.C. Steady growth, along with mergers and expansions, culminated in a diverse firm specializing in engineering, architecture, surveying, and supportive specialty services.

Klingner's offices are located in Galesburg, IL; Quincy, IL; Hannibal, MO; Columbia, MO; Burlington, IA; and Pella, IA; and we regularly serve clients within a 200 mile radius. Featuring a staff of 112 licensed professionals and support personnel, Klingner is built to manage projects of all sizes and complexities while maintaining proactive client communications.

KLINGNER'S MULTIDISCIPLINARY SERVICES

Klingner provides the following professional services:

- Architecture
- Civil / Site Development
- Construction Material Testing
- Construction Inspection
- Environmental
- Geotechnical
- GIS / Planning
- Interior Design / Space Planning
- Land Surveying / 3D Scanning
- Landscape Architecture
- Mechanical / Electrical / Plumbing
- Recreational Planning
- Renewable Energy / Energy Efficiency
- Structural
- Transportation
- Water Resources
- Water / Wastewater

THE FLEXIBILITY TO RESPOND IN A TIMELY MANNER

SPECIALIZED EXPERIENCE AND TECHNICAL COMPETENCE

Municipalities and businesses turn to Klingner when faced with infrastructure needs and evolving regulatory expectations. Our experienced Engineers have provided solutions for nearly 600 water / wastewater projects of all sizes and complexities in the past 25 years alone. From water distribution systems to building new water treatment facilities, we are committed to safe water distribution, streamlining operations, and saving clients money.

At Klingner, we:

- Offer solutions that anticipate immediate and long-range issues.
- Provide options that have the least impact on municipal utility rates.
- Listen to clients and pay attention to operators' comfort with various technologies.
- Create systems tailored to fit municipalities' financial needs — whether they're complex systems requiring high-level operators or simple systems for smaller communities that are less expensive and address long-term treatment challenges.
- Maintain quality relationships with permit reviewers, funding agencies, regional planning commissions, and equipment suppliers.
- Have significant experience with successful projects.

PROXIMITY AND FAMILIARITY WITH THE AREA

Klingner is able to assist you from our Galesburg, IL, Hannibal, MO, and Quincy, IL, offices to fulfill the professional services required. Our firm regularly works in nearby communities, and has provided water services for nearly 50 communities, including:

Nearby water projects:

- City of Aledo, IL
- Village of Bowen, IL
- Village of Browning, IL
- Camden Littleton Water Commission, Camden, IL
- Village of Camp Point, IL
- Clayton Camp Point Water Commission, Camp Point, IL
- City of Dallas City, IL
- Dallas Rural Water District, Hamilton, IL
- City of Fort Madison, Iowa
- City of Galesburg, IL
- Hickory-Kerton Water Cooperative, Rushville, IL
- Village of Hopewell, IL
- Village of Industry, IL
- Village of Lima, IL
- Village of Mendon, IL
- City of Middletown, IA
- Village of Payson, IL
- City of Petersburg, IL
- Village of Roseville, IL
- City of Rushville, IL
- South Fulton Water District, Astoria, IL
- Village of Ursa, IL
- Village of Wataga, IL
- West Prairie Water Cooperative, Colchester, IL

KLINGNER'S FIRM PROFILE
What we do best

The magnitude of interdependent components requires a collaborative, transparent partnership.

CONSTRUCTION COST ESTIMATES

Costs matter. We work diligently to provide cost saving solutions to our clients wherever possible. When developing designs, our project team considers the skills of our local labor forces, the availability of materials, and the construction schedules of other area building projects.

We understand that working for publicly funded projects makes us partners in the stewardship of local tax dollars. This is a responsibility we do not take lightly. Large capital projects that go over budget can have significant and long lasting impacts on municipalities that negatively impact the quality of life in the community. To protect against budget overruns, we review the estimate of cost against the project budget at every major stage of the design process. This watchful eye toward the project costs helps our projects come in on budget.

Providing design services within the owner's budget is just as important as providing services of high quality within the allotted time schedule. Our goal is to maximize all of these aspects to give the owner the best possible finished product. We have a long history of submitting design documents that meet the owner's budget.

CAPACITY AND CAPABILITY

A perfectly executed set of plans will not make a project successful if they do not match the client's expectations for the project. To match our plans with these expectations, Klingner schedules multiple review meetings with the Owner. Having designated dates for reviews does more than keep projects on schedule; it provides an opportunity to explain details of the project to the Owner, present options for consideration, solicit input from the Owner for design decisions, and update the Owner on factors impacting the design. Our project success depends entirely on the quality of our services.

Every Monday, all department managers meet to evaluate workloads and assign staff, as required, so that projects stay on schedule and clients stay happy. Throughout this quality control process, our team schedules are updated regularly to mitigate scheduling conflicts. Klingner is fortunate to have a robust staff of engineers and architects to accommodate our clients' deadline requests. We have an excellent track record of similar projects, which means you will have fewer demands on your time, better decision-making, reduced risk, and a much higher likelihood of on-time and on-budget delivery.

PAST RECORD OF PERFORMANCE

Our firm is committed to your project budget and schedule. We quickly respond to design, construction, and coordination issues. Community input, regulatory standards, and day-to-day operations are considered by our team for a more conscientious design experience. No matter the project, we work closely with clients to determine a "big picture" perspective, allowing us to plan for enhancements and required upgrades.

To address regulatory requirements, our team maintains close relationships with key agencies in Illinois. We guide studies for new technologies and actively participate in regulatory stakeholder meetings to anticipate our clients' future requirements and increase the safety of their constituents and / or employees.

We help clients make informed funding decisions by providing preliminary engineering reports that identify potential funding sources, determination of eligibility, and impact on user rates.

OUR CLIENTS ARE OUR

MAIN PRIORITY

Klingner takes careful time to listen to our clients needs and stay available to them throughout each project. Thanks to quality work, dedication, and constant contact with our clients, we boast an average of 85% of repeat clients each year. Based on a seven year analysis from our client satisfaction surveys, below is how our clients believe we are successfully handling their projects.

79% EXCELLENT
18% GOOD

RESPONSIVENESS TO NEEDS

63% EXCELLENT
31% GOOD

COST CONTROL ON PROJECT

72% EXCELLENT
27% GOOD

QUALITY OF DESIGN

87% EXCELLENT
5% GOOD

FOLLOW UP AFTER COMPLETION

RELEVANT PROJECTS

At Klingner, we believe the magnitude of interdependent components — construction plans, specifications, estimates of probable cost, permitting, and design implementation— requires a truly collaborative partnership between Engineers, IDNR, and project stakeholders. We will be your guide and sounding board through regulatory agencies, meetings, the permitting process, and project execution. The following pages illustrate our relevant project experience.

CITY OF GALESBURG, IL

Klingner provided design services for multiple water main design projects including Seminary Street, Whitesboro Street, Academy / Prairie / Berrien Streets, and Fremont Street. The existing water main between Fremont Street and Walsh Avenue were replaced in conjunction with the Seminary Street reconstruction project. Klingner also provided construction documents for the directional boring portion of the project, which consisted of approximately 1,040 lf of 8" PVC water main in four locations and one service bore of approximately 55'. (Images of area involved shown)

N Seminary Street Water Main Replacement
GALESBURG, IL

Water Main Design
ALEDO, IL

CITY OF ALEDO, IL

Klingner provided design and bidding documents in IDOT format for the replacement of the existing water main along Southwest 9th Street in Aledo, IL. Services provided include a topographic survey of the project location and identification of Right-of-Way boundaries, coordination with the City of Aledo and local utilities, detailed plan and profile sheets for the water main replacement, specifications, preparation of applicable IEPA permits, bidding services, and full time construction observation.

Water System Improvements
CAMP POINT, IL

CLAYTON-CAMP POINT WATER COMMISSION, IL

Klingner has been the engineer for CCPWC since its inception in 1976, providing services to over 10,000 residents, 10 rural communities, and 4 water districts. Typical services include water transmission mains, elevated water storage tanks, groundwater treatment facilities, and booster pumping stations. Klingner designed several hundred miles of water mains for transmission, distribution, and interconnection with over 14 municipal / District customers and 800 rural residences. During the years, Klingner has provided design and construction services for over $4M of infrastructure improvements, including (in part) water transmission mains, 750,000 and 250,000 gallon elevated water storage tanks, a 750 GPM high service pump, two groundwater treatment facilities, 4 booster pumping stations, and several hundred miles of water mains for transmission, distribution, and interconnection.

CITY OF MIDDLETOWN, IA

Klingner provided design, bidding services, construction administration, and observation for the water main replacements south of Highway 34 within the areas previously owned and operated by the IAAAP. The project included approximately 11,500 lf of water main replacement and a total project construction cost of $560K. Services included a topographical map of the work area, a limited hydraulic model of the proposed system to project flows and pressures caused by domestic demands and fire flows, plans and specifications of water main and appurtenances, construction material testing, construction staking, and observation.

Water Main Replacements
MIDDLETOWN, IA

"Working with Klingner in the past four years, I have found that they are very helpful. That is important for me because time is often directly related to the overall cost of a particular project. They have been courteous, timely with their responses, and willing to adapt to this District's needs."

Lucas Drullinger
District Manager
PWSD #1 of Ralls County, MO

Water System Improvements
RALLS COUNTY, MO

RALLS COUNTY PUBLIC WATER SUPPLY DISTRICT, MO

Klingner has maintained an ongoing relationship with this client since 1984. Over that time, the District has grown from 1,000 customers to over 2,800. Services provided encompass all aspects of water-related projects, such as booster stations, elevated water storage tanks, and operational assistance. They have included over 180 miles of water main extensions and replacements, as well as research for over 580 easements (including over 180 new easements) to reduce water loss from over 60% down to approximately 15%.

Klingner assisted the District in obtaining the USDA grant and loan funds for this project by preparing funding applications and preliminary engineering reports.

On-Call Water Services
QUINCY, IL

CITY OF QUINCY DEPARTMENT OF UTILITIES MUNICIPAL SERVICES, IL

Klingner provides services to the City of Quincy Department of Utilities for municipal water services on an on-call basis, many of which involve water main extensions for the City and local developers. Some recent projects include an 18" water main repair; Westview Drive water main layout; Quincy Public School District #172 water main extension - to serve two new elementary schools; Koontz Properties North 12th water main extension; and various pump and lift station upgrades and replacements, water distribution pressure reviews, NPDES permitting assistance, and sampling.

Various Water Main Extensions
LAGRANGE, MO

CITY OF LAGRANGE, MO

Klingner has provided ongoing professional services for updating the City's existing 2" through 12" size water lines since 2003 when they undertook a five-year Owner supervised five-year water plan. The program encompassed nearly 20,000 lf of 6" PVC piping, along with other improvements, and totaled approximately $1,161,000 in construction costs. In 2016, Klingner also provided design, bidding, and construction administration and observation services for a new 8" water main from the existing water treatment plant to the existing 300,000 gallon water tower.

PROJECT REFERENCES

Klingner has worked hard to develop our long-standing client relationships. We value our clients' opinions and their overall satisfaction. Klingner is pleased to provide the contact information for the references below.

CITY OF ALEDO, ILLINOIS
Justin Blaser, Director of Public Works
120 North College Avenue
Aledo, IL 61231
(309) 582-7241
jblaser@aledoil.org

CITY OF GALESBURG, ILLINOIS
Wayne Carl, Director of Planning & Public Works
55 W. Tompkins Street
Galesburg, IL 61402
(309) 345-3650
wcarl@ci.galesburg.il.us

VILLAGE OF WATAGA, ILLINOIS
Ty Barnes, Village Clerk
147 N. Depot Street, P. O. Box 371
Wataga, IL 61488
(309) 375-6910

CITY OF MIDDLETOWN, IOWA
Eric Gerst, Mayor
City Hall
120 Mechanic Street
Middletown, IA 52638
(319) 752-8340
middletowncityhall@mchsi.com

CITY OF LAGRANGE, MISSOURI
Grant Kennedy, Water Superintendent
118 S Main Street
LaGrange, MO 63447
(573) 655-4301
waterplant@centurytel.net

RALLS COUNTY PWSD NO. 1
Lucas Drullinger, Manager
3316 Market Street
Hannibal, MO 63401
(573) 221-6615
ldrullinger@alliancewater.com

QUALIFIED STAFF

The proposed project team for the Village of Coal Valley will be your dedicated support from project kick off through completion.

MARK C. LEE, PE

Senior Project Manager

Mark has been a Civil Engineer for Klingner & Associates, P.C. since 2014 and is very adept at both water / wastewater, site, and transportation projects. Having a wide range of project knowledge from site plan review, design, IDOT specifications and special provisions, He has the experience needed for both large and small scale projects. Project types that Mark has worked on include municipal, educational, commercial, residential, road design, and underground piping design.

EDUCATION

Master of Science in
Civil Engineering (2013)
Iowa State University
Ames, IA

Bachelor of Science
Civil Engineering (2003)
University of Illinois
Urbana-Champaign, IL

REGISTRATIONS

Professional Engineer:
Illinois #062-060864 (2008)
Iowa #22936 (2015)

PROJECT HIGHLIGHTS

- Village of Coal Valley, IL - First Street Resurfacing & Safe Routes to School Improvements
- City of Galesburg, IL - Seminary Street Reconstruction Water Main Design
- City of Galesburg, IL - Whitesboro Street Water Main Design QC / QA
- City of Galesburg, IL - US 150 Water Main Design
- City of Galesburg, IL - Academy / Prairie / Berrien Streets Water Main Design
- City of Galesburg, IL - Freemont Street Water Main Design
- Village of Wataga, IL - Well Design
- City of Aledo, IL - Water Main Design
- Village of Hopewell, IL - Preliminary Engineering Report for Water System Improvements

MARK C. BROSS, PE

Project Manager

Mark has been a Water / Wastewater Engineer with Klingner & Associates, P.C. since 1996 and became Department Manager in 2015. He is directly involved with, and excels at, design and construction management for water distribution systems, water storage, water treatment facilities, pump stations, and wastewater collection systems for communities with populations of 150-40,000 people. He has exceptional experience with regulatory and funding agencies, operational assistance, and long-range planning for municipalities.

EDUCATION

Bachelor of Science
Civil Engineering - 1996
University of Missouri - Rolla
Rolla, Missouri

REGISTRATIONS

Professional Engineer:
Illinois #062-054706 (2001)
Missouri #2001004562 (2001)
Iowa #21162 (2012)

PROJECT HIGHLIGHTS

- City of Middletown, IA – Highway 34 Water Main Replacement
- City of Monroe City, MO – Multiple Water Main Replacements and Extensions
- City of Galesburg, IL – North Seminary Street Water Main
- City of LaGrange, MO – Multiple Water Main Extensions
- Ralls County PWSD No. 1 – Multiple Water Main Relocation and Improvement Projects
- Village of Wataga IL - Well Design
- Village of Hopewell - Water System Appraisal

DANIEL L. OLIVER, P.E.

Chief Design Engineer

Dan joined Klingner & Associates, P.C. in 2013 and brings 40 years of experience in Wastewater Treatment Plants. His experience includes planning, design, management, operations, CDAP Grant knowledge, and he provides General Administration to many clients. Dan has been the Project Engineer on various projects. While working with his internal team and external subconsultants and contractors, he builds relationships that help him deliver successful projects.

EDUCATION

Bachelor of Science
Civil Engineering - 1972
University of Missouri-Rolla
Rolla, Missouri

Master of Science
Civil Engineering with Sanitary Engineering Option - 1973
University of Missouri - Rolla
Rolla, Missouri

REGISTRATIONS

Professional Engineer:
Illinois #062-036589 (1977)
Missouri #019508 (1977)
Iowa #08375 (2014)

PROJECT HIGHLIGHTS

- City of Normal, IL – College Avenue Water Main Replacement *
- City of Aqua, IL – Transmission Main for 52,000FT of 20-inch ductile, fast-track water main
- Village of Payson, IL – Water Treatment Plant and Water Main Improvements
- Village of Camp Point, IL – Lift Station Pump Replacement at Main lift station
- Clayton-Camp Point Water Commission – Water System Improvements
- City of Athens, IL – Elevated Water Storage Tank Coating
- City of Athens, IL – Copper Service Pipe Pitting Study
- City of Rushville, IL – Additional Well
- City of Galesburg, IL - Seminary Street Reconstruction Water Main Design

* prior to joining Klingner & Associates

MATTHEW J. SUHADOLC, PE

Project Engineer

Matthew joined Klingner & Associates in 2013 and is a great resource to the Water / Wastewater Department. He has worked on a variety of project types, including sewer system infiltration and inflow analysis, sewer main and lift station rehabilitation, as well as water main and rural booster station design. With a strong understanding of the overall project process and an eye for detail, Matthew is integral to successful project execution.

EDUCATION

Bachelor of Science - 2012
Southern Illinois University
Carbondale, IL

REGISTRATIONS

Professional Engineer
Illinois #062-071418 (2019)
Missouri #2019017900 (2019)
Iowa #P25509 (2019)

NACE Certified Coating Inspector
Level 1

PROJECT HIGHLIGHTS

- City of LaGrange, MO – Main Street Water Main Extension
- Village of Payson, IL – Magnolia & Sumac Streets Water Main Replacement
- Clear Creek Subdivision LLC – Subdivision Water Main Extension
- McKay & Craigmiles Farms – Route M Water Main Extension
- Ralls County PWSD No. 1 – Water Supply Improvements Water Main Updates
- City of Frankford, MO - Water Main Replacement
- City of Wayland, MO - Water Main and Stand Pipe
- Ralls County PWSD No. 1 - Route 168 Relocation Preliminary Design
- City of LaGrange, MO - Preliminary Engineering Report for Water System Improvements (Storage, Water Maine, and Booster Station)
- City of Louisiana, MO - Construction Observation for Water Treatment Plant improvements for aerator system and UV

BRIAN NORMAN, EI

Project Designer

Brian joined Klingner & Associates, P.C. as an Engineer Intern in 2016. A team player and natural problem solver, he is an excellent client resource. His experience includes water main replacement and extensions for municipalities across Missouri, Iowa, and Illinois. Supporting clients through design, permitting, bidding, and construction observation, Brian facilitates regular communication between project stakeholders to ensure on-time project delivery.

EDUCATION

Bachelor of Science
Chemical Engineering - 2016
University of South Florida
Tampa, FL

REGISTRATIONS

Engineer Intern:
Florida #1100020070 (2016)

PROJECT HIGHLIGHTS

- Clayton-Camp Point Water Commission – Bottom Road Water Main Extension
- Clayton-Camp Point Water Commission – 2016 Water System Improvements Mt. Sterling Loop
- City of Athens, IL – IL 29 Water Main Relocation
- Village of Payson, IL – Magnolia & Sumac Streets Water Main Replacement
- City of Quincy, IL / Quincy Public School District #172 – Water Main Extensions for two New Elementary Schools
- Koontz Properties – N. 12th Water Main Extension
- City of Athens, IL – 2016 Municipal Services Johnson Road Water Main Extension
- Nuessen, Dan & Kate – Water Main Extension
- Galesburg, IL – US / 50 / Whitesboro Rd Water Main Replacement

JOSHUA D. HARTSOCK, EI

Project Designer

Joshua joined Klingner & Associates, P.C. in 2015. His experience includes Autosampler collection and maintenance, River modeling (flow, temperature, pH, depth), jar testing, data collection and interpolation. His computer skills include Revit, GIS, HEC_HMS, AutoCad, and RISA.

EDUCATION

Bachelor of Science
Civil & Environmental
Engineering -2015
University of Missouri
Columbia, Missouri

REGISTRATIONS

Registered Engineer Intern:
Missouri #2-018017836 (2018)

PROJECT HIGHLIGHTS

- Ralls County PWSD No. 1, Hannibal, MO – Water Treatment Plant Disinfection Byproduct Study
- City of Galesburg, Galesburg, IL - Water Plant GAC Pilot Testing
- City of LaGrange, LaGrange, MO - Main Street Water Main Extension
- City of Galesburg, Galesburg, IL - Tank Aeration and Mixing
- City of Wayland, Wayland, MO - Water System Improvements
- Ralls County PWSD No. 1, Hannibal, MO - Route 168 Water Main Replacement
- City of Palmyra, Palmyra, MO - Warren Head Industrial Park
- Ralls County PWSD No. 1, Hannibal, MO - Water Supply Improvements
- City of LaGrange, LaGrange, MO - Water System Improvements
- City of Clarksville, Clarksville, MO - Water Improvements
- American Ordnance, Middletown, IA - Water Main Replacement
- Village of Hopewell, Hopewell, IL - Preliminary Engineering Report on Water System Improvements
- City of Petersburg, Petersburg, IL - South Tower Tank Rehabilitation
- Village of Ursa, Ursa, IL - Water Tower Rehabilitation

KLINGNER
& ASSOCIATES, P.C.
Engineers • Architects • Surveyors

Quincy, IL	Galesburg, IL	Burlington, IA	Pella, IA	Hannibal, MO	Columbia, MO
217-223-3670	309-343-1268	319-752-3603	515-612-7402	573-221-0020	573-355-5988

WHAT'S INSIDE:

Cover Letter
Firm Profile
Relevant Experience
Funding
Project Team

SHIVEHATTERY
ARCHITECTURE + ENGINEERING

VILLAGE OF COAL VALLEY
WATER DISTRIBUTION SYSTEM IMPROVEMENTS

319368P

1701 RIVER DRIVE | SUITE 200 | MOLINE, IL 61265 | 309.764.7650 | SHIVE-HATTERY.COM

"The team at Shive-Hattery is extremely qualified and strongly recommended. Every project has unique constraints and they do a great job understanding the client's goals and evaluating the best approach for meeting the project objectives.

Shive-Hattery does a fantastic job of assessing contractibility, permitting, and anticipated construction early in design to help ensure a successful project."

Stephen S. Wesselmann

General Manager, Winterset Municipal Utilities
Winterset, IA

SHIVEHATTERY
ARCHITECTURE + ENGINEERING

November 14, 2019

Selection Committee Members
Village of Coal Valley
900 1st Street
Coal Valley, IL 61240

Dear Selection Committee Members:

Thank you for considering Shive-Hattery for your water distribution system improvements. As planned, your project will increase the capacity of Well No. 4, connect Niabi Zoo to Coal Valley water system with a 12-inch water main along Oakwood Circle and Niabi Zoo Road, implement a new elevated storage tank, and replace a water main along East 3rd Avenue. Further, the project will evaluate and provide, as necessary, a new booster station.

Shive-Hattery's team is regularly engaged in the type of work that you have planned. This year alone, we have designed water main replacement along 10th Avenue and 29th Avenue in East Moline, Illinois; new booster pump for Park View Water & Sanitary District, Iowa; a new elevated storage tank for Earlham, Iowa; and a well retrofit in Freeport, Illinois, just to name a few. The same team members involved in these projects have committed to serving the Village and your water distribution improvements.

Having been involved with numerous communities in the area for over 50 years, we understand budgets can be spread thin and funding is always welcome. We have assisted clients with securing grants and low interest loans in bringing their plans to reality. Just as two examples, we assisted Princeton, Iowa in securing a USDA grant along with a low interest loan for their new well; and most recently, we received confirmation this week that we were successful in helping Park View Water & Sanitary District receive SRF loan allocation for their planned water system improvements. We will work the Village in exploring different funding options and assist in navigating the the process for securing the funds.

Successful project delivery includes more than technical know-how. We will listen to the Village to understand your goals, vision, and priorities; collaborate with you from start to finish; and apply our proven project management principles to guide the project to completion within budget and schedule. Ultimately, our purpose is to become your trusted advisor for this project and beyond.

For brevity, the following information sheets provide an overview of Shive-Hattery, summarize our relevant project experience, and introduce the team members that will be working you. More detailed experience, profiles, and resumes can be provided upon request.

Please contact me (cell: 309.738.1276) with any questions or if you require additional information. We look forward to your response.

Sincerely,
SHIVE-HATTERY, INC.

Shane D. Oyler
Environmental Engineer, Project Lead

FIRM PROFILE Providing Unparalleled Client Service

SHIVE-HATTERY BY THE NUMBERS:

120+ Years in Business

420 Employees

47 Registered Architects

46 LEED® Accredited Professionals

98 Licensed Engineers

7 Locations

# of Employees by Discipline	Company-Wide
Administrative	58
Architects	47
Intern Architects	18
Architectural Designers-Technicians	20
Building Envelope Technicians	5
Civil & Transportation & Environmental Engineers	46
Civil & Transportation & Environmental Interns	24
Civil Technicians	14
CADD Technicians	1
Construction Observers	10
Electrical Engineers	7
Electrical Interns	6
Electrical Technicians	7
Environmental Specialists	3
Interior Designers & Technicians	27
Land Surveyors	7
Land Surveyor Interns & Technicians	13
Landscape Architects	5
Landscape Architect Interns & Technicians	5
Mechanical Engineers	20
Mechanical Interns	4
Mechanical Technicians	18
Project Managers	10
Structural Engineers	25
Structural Interns	9
Structural Technicians	11
TOTAL	**420**

Shive-Hattery is a full service design firm. We provide a full range of architectural, engineering and land surveying services allowing for a single source of solutions.

We focus on specific market sectors: government, education, industry, healthcare, and commercial. Our multi-office arrangement in Illinois, Iowa, and Indiana allows us to serve clients on a local and regional basis.

As an architecture and engineering consulting firm, Shive-Hattery goes beyond traditional design. With deep knowledge of your business, we deliver customized solutions while providing support as an extension of your staff. It's more than just a one-time transaction; we cultivate relationships. To be your trusted advisor is the highest honor and our ultimate goal.

SHIVEHATTERY
ARCHITECTURE + ENGINEERING

RELEVANT EXPERIENCE

WATER MAIN

WATER MAIN EXPERIENCE														
	New Water Main Construction	Water Main Replacement	Large Diameter Water Main (12" Dia. And larger)	Trenchless Construction	Open Cut Construction	Water Service Connections	Surface Restoration	Traffic Control	Right of Way/Easements	Public Meetings	Permitting	Construction Administration and/or Observation	Record Drawings	Topographic and Boundary Survey
10th Avenue Water Main, Sewer, and Street Reconstruction, East Moline, IL		X		X	X	X	X	X			X			X
27th and 26-1/2th Street and State Street Water Main Replacement, Bettendorf, IA		X		X	X	X	X	X	X		X		X	X
29th Avenue Water Main Replacement and Street Resurfacing, East Moline, IL		X		X	X	X	X	X			X			X
33RD Avenue North and North 3rd Street Water Main Replacement, Clinton, IA		X	X	X	X	X	X	X	X		X		X	X
2014 Water Main Improvements, North Liberty, IA		X			X	X	X	X	X	X	X	X	X	
2015 Water System Improvements 2015, North Liberty, IA	X		X	X		X	X		X	X	X	X	X	
Camanche Water Main Extensions, Camanche, IA	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fairground Elevated Storage Tank Booster Station and Water Main, Davenport, IA	X	X	X		X		X	X	X		X		X	X
Hills Municipal Water System, Hills, IA	X				X	X	X	X	X	X	X	X	X	
I-74 Mississippi Bridge Water Main Relocations, Bettendorf, IA	X	X	X	X	X	X	X	X	X		X	X	X	X
Martin Luther King Jr. Water Main Construction, Bloomington, IL	X		X		X	X	X		X	X	X		X	
UI Boyd Law Chilled Water Extension, Iowa City, IA	X		X		X		X	X			X	X	X	
UI Carver Hawkeye Arena Water, Iowa City, IA	X		X		X	X	X	X			X	X	X	
UI Utilities Distribution System - Reconstruct Currier Steam Tunnel at Burge Hall, Iowa City, IA	X		X		X	X	X	X			X	X	X	
UI Utilities Distribution System – Install Utilities Under Iowa River from Arts Campus, Iowa City, IA	X		X	X	X		X				X	X	X	
UI Utilities Distribution System - Replace Riverside Drive/Grand Avenue Steam Distribution System – Phase 2, Iowa City, IA	X		X	X	X	X	X	X			X	X	X	
Water Main Extensions, Goodfield, IL	X				X	X	X				X	X	X	X
Water Main, Meters, and Vale Replacement, Atkinosn, IL		X		X	X	X	X	X			X	X	X	X
Water Main Replacement Project, Village of Heyworth, IL	X				X		X	X	X		X	X	X	

RELEVANT EXPERIENCE Continued

ELEVATED WATER STORAGE

NEW ELEVATED WATER STORAGE TANKS					
Location	**Type**	**Size (gal.)**	**Manufacturer**	**Construction Cost**	**Year**
Earlham, Iowa	Pedosphere	200,000	Currently In Bidding		
McLean, Illinois	Pedosphere	200,000	Caldwell	$ 865,000	2016
Camanche, Iowa	Pedosphere	250,000	Maguire Iron	$ 781,874	2010
Camanche, Iowa	Pedosphere	250,000	Maguire Iron	$ 623,000	2010
North Liberty, Iowa	Fluted Column	1,000,000	CB&I	$1,482,000	2006
Montecillo, Iowa	Fluted Column	500,000	Caldwell	$ 645,000	2005
Eldridge, Iowa	Pedosphere	750,000	CB&I	$ 781,000	2000

In addition to the above, we also provided structural engineering (foundation design) for a 500,000 gallon EWST in Washington, Iowa (2014) and a 200,000 gallon EWST in Hills, Iowa (2015).

BOOSTER STATIONS

BOOSTER STATIONS			
	New Facility	Retro Fit Existing Facility	Package System
Atkinson, IL		X	
Eldridge, IA	X		
Hayworth, IL	X		
Iowa American Water, Davenport, IA			X
Iowa American Water, Dixon, IA			X
Lake Iroquois Association, Loda, IL		X	
Park View Water & Sanitary District, Park View, IA		X	

RELEVANT EXPERIENCE Continued

WELL WATER

RECENT (5-YEAR) WELL WATER											
	Facility Plan	Alternative Evaluation	Well	Aeration	Pressure Filters	Gravity Filters	Hydrogen Sulfide	Iron/Manganese	Ion Exchange	Chlorine/Hypochlorite Disinfection	Permitting
Atkinson, IL	X	X		X			X			X	X
Camp Courageous, IA	X	X	X							X	X
Chatsworth, IL	X	X		X	X		X	X		X	X
Dixon, IA				X						X	X
Eldridge, IA	X	X	X	X		X		X		X	X
Freeport, IL			X								X
Heyworth, IL	X	X		X	X			X		X	X
Lake Iroquois Association, Loda, IL	X	X	X	X	X			X	X	X	X
McClean, IL	X	X	X	X	X			X		X	X
Park View Water & Sanitary District, Park View, IA	X	X			X			X		X	X
Patriot Well & Waterman, Annawan, IL	X	X	X							X	X
Princeton, IA	X	X	X							X	X
Rapid Creek, Cidery, IA			X							X	X

RELEVANT EXPERIENCE Continued

WATER DISTRIBUTION MODELING

WATER DISTRIBUTION MODELING						
	Model Development	Calibration	Extended Period Simulation	Booster Pumps	Elevated Water Storage	Pressure Zones
Earlham, IA	X	X			X	
Eldridge, IA	X	X	X	X	X	
Marshalltown Water Works, Marshalltown, IA	X	X	X	X	X	X
Monticello, IA	X	X	X		X	
Princeton, IA	X	X			X	

FUNDING

We have assisted our clients in obtaining grants and low interest rates loans, often by combining different programs and funding sources.

- USDA Rural Development assist in funding water as well other systems for rural areas and towns with a population of 10,000 or less. Funding is through low interest rate loans, grants, or a combination of both. We helped Princeton Iowa obtain a grant and loan for a new water supply well. Additionally, we helped Lake Iroquois Association with USDA funding for a new WWTP. In general, if grants are not awarded, loans can be more cost effective through the SRF process.
- State Revolving Fund (SRF) provides low interest rates and allows funding of design costs for three (3) years at 0% interest. We have assisted several communities with SRF funding including City of Rock Island, City of Eldridge, City of Mount Pleasant, and Park View Water & Sanitary District.
- Community Development Block Grant (CDBG) is a program for low- to moderate-income communities or neighborhoods. The program focusses on 1, 2, or 3-year process with citizen participation and grant funding, which 70% of the funds must be used to benefit low- to moderate-income persons. We assisted Comanche Iowa in obtaining CDBG funding, in combination with a SRF loan, for regionalization of their wastewater system.

Funding does have additional requirements, such as administration, documentation, certain front-end requirements, environmental review, municipal advisor assistance (SRF refunds up to $4,000 at closing), American Iron and Steel, and Davis-Bacon wage rates. We will lead the Village of Milan through the funding options, applications, draw downs, and reporting.

FUNDING Continued

SHIVE-HATTERY PROJECTS
Funded by grants/loans through various state, federal or local agencies

Partial List of Project Funding Sources 2005-2018

Project Name	State	Type of Funding	Funding Amount
Bettendorf Crow Creek Recreation Trail	IA	State Enhancement Grant	$ 500,000
Bettendorf Middle Road Recreation Trail	IA	Enhancement Funding	$ 782,142
Blue Grass, IA Generator	IA	Riverboat Development Authority	$ 90,000
Blue Grass, IA Recreation Trail	IA	Region 9 Enhancement Funding	$ 179,000
Bondurant Chichqua Valley Trail	IA	Transportation Alternative Program	$ 300,000
Bondurant Chichqua Valley Trail	IA	REAP	$ 75,000
Camanche, IA - 3rd Street Overlay	IA	STP	$ 170,800
Camanche, IA - 9th Avenue Curb & Gutter Reconstruction	IA	STP	$ 271,032
Camanche, IA - 9th Street Bridge Project	IA	IADOT Bridge Funding	$ 500,000
Camanche, IA - Avenue US-67 to Anamosa Road	IA	STP	$ 100,000
Camanche, IA - Street Recreation Trail	IA	Enhancement Funding	$ 138,070
Camanche, IA - Washington Blvd. Enhancement	IA	Enhancement Funding	$ 237,600
Camanche, IA - Washington Blvd. Improvements	IA	ARRA/I-Jobs	$ 209,000
Camanche, IA Emergency Generators	IA	FEMA-Homeland Security	$ 250,000
Camanche, IA Forcemain and WWTP	IA	CDBG/SRF	$ 2,969,000
Camanche/Clinton Mississippi River Trail	IA	IADOT Enhancement Funding	$ 2,100,000
Coralville US 6 Corridor Traffic Signal Interconnection	IA	Iowa Clean Air Attainment Program	$ 180,000
Coralville, IA - Iowa River Landing - Von Maur Department Store Site Desgin	IA	SRF	$ 473,734
Eldridge - 1st Street Bike Path	IA	Surface Transportation Program (STP)	$ 165,980
Eldridge - Long Grove Trail Constrution, IA	IA	Surface Transportation Program (STP)	$ 704,791
Eldridge - Long Grove Trail Design, IA	IA	American Recovery and Reinvestment Act (ARRA)	$ 90,152
Eldridge - US 61 & LeClaire Road Signalization	IA	Urban State Traffic Engineering Program (USTEP)	$ 153,387
Eldridge, IA - 1st Street Turn Lane	IA	ARRA	$ 153,387
Eldridge, IA - LeClaire Road Construction	IA	Surface Transportation Program	$ 1,800,000
Eldridge, IA to LeClaire, IA Recreation Trail	IA	Region 9 Enhancement Funding	$ 90,000
Eldridge, IA Buttermilk and South Slope Wastewater Upgrades	IA	CDBG/SRF	$ 15,000,000
Grinnell I-80 Ramp Modification	IA	Traffic Safety Improvement Program	$ 400,000
Johnston Beaver Drive Trail	IA	Transportation Alternative Program	$ 300,000
Johnston Beaver Drive Trail	IA	State Rec. Trails Program	$ 80,000
Mt. Pleasant, IA Police Station	IA	I-Jobs Grant	$ 600,000
Mt. Pleasant Wastewater Screen Replacement	IA	CDBG/SRF	$ 576,000
North Liberty Penn Street & I-380 Improvements	IA	USTEP	$ 400,000
North Liberty, IA - Cornerstone Park	IA	REAP	$ 100,000
North Liberty, IA - Multi-use Recreation Trail	IA	IADOT Enhancement Funding	$ 342,163
North Liberty, IA - Pervious Pakring Lot and Rain Gardens	IA	I-Jobs Grant	$ 82,551
Riverdale, IA - Mississippi River Trail	IA	National Scenic Byway Grant	$ 494,956
Riverdale, IA - Mississippi River Trail	IA	State Recreational Trails Funding	$ 318,644
Riverdale, IA - Mississippi River Trail	IA	County Regional Authority Grant	$ 53,400
Princeton Well #3	IA	CDBG/SRF	$ 500,300
Storm Lake - United Community Health Center	IA	USDA Loan	$ 800,000
University Heights Melrose Avenue Sidewalk	IA	Transportation Alternative Program	$ 200,000
University Heights Sunset Street Sidewalk	IA	Transportation Alternative Program	$ 215,000
Waterloo Adaptive Traffic Signalization	IA	Iowa Clean Air Attainment Program	$ 400,000
West DesMoines – Grand Avenue Phases 1-3	IA	FHWA Funding	$ 3,440,000
IOWA TOTAL			**$ 36,986,089**
Annawan, IL Lathrop Road	IL	FHWA	$ 3,655,000
Atkinson, IL WWTP Improvements	IL	ILEPA - ARRA Funding	$ 125,000
East Moline SRTS	IL	SRTS	$ 150,000
Kewanee, IL - Main Street Water Main Replacement	IL	SRLF	$ 500,000
Lake Iroquois Association	IL	SRLF	$ 750,000
Lake Iroquois Association	IL	USDA Loan	$ 850,000
Rock Island Water Treatment Plant Improvements	IL	SRFL	$ 25,000,000
South Buchanan Street Reconstruction	IL	USDA Ruhl Business Enterprise Grant (RBEG)	$ 95,000
Sylvan Slough	IL	National Scenic Byway Grant	$ 270,000
Village of Heyworth	IL	IDNR OSLAD	$ 150,000
Village of Heyworth	IL	DCEO Energy Efficiency Grants (EEPS)	$ 150,000
Village of McLean, IL	IL	CDBG	$ 267,000
Village of Varna	IL	DCEO CDBG	$ 100,000
ILLINOIS TOTAL			**$ 32,062,000**
			$ 69,048,089

ACRONYM LISTING

FEMA - Federal Emergency Management Agency
CDBG - Community Development Block Grant
SRLF - State Revolving Loan Fund
SRF - State Revolving Fund
REAP - Resource Enhancement and Protection
DCEO - Department of Commerce and Economic Opportunity
OSLAD - Open Space Lands Acquisition and Development
FHWA - Federal Highway Administration
USDA - United States Department of Agriculture

PROJECT TEAM

Shive-Hattery team members were chosen for their experience in civil, structural, and electrical design, as well as survey and geotechnical.

SHANE OYLER, PE
PROJECT LEAD

Shane is an environmental engineer with more than 20 years of water / wastewater experience focused on process design and hydraulics. He is responsible for design and management of all project stages, from initial concept through construction and start-up. His most recent project experience includes water main replacements for East Moline, Earlham EWST, and Park View Water & Sanitary District Booster Pump.

EDUCATION

Bachelor of Science, Environmental Engineering, Texas Tech University
Master of Science, Environmental Engineering, Texas Tech University

PROFESSIONAL DESIGNATIONS

Professional Engineer, AL, AR, IA, IN, ID, IL, KS, KY, MI, MO, OK, TX, WI
OSHA 10 Hour General Industry Certification, OSHA-Occupational Safety and Health Administration

PROJECT TEAM Continued

ANDREW QUESTED, EI
CIVIL ENGINEERING INTERN

EDUCATION

Bachelor of Science, Civil Engineering, University of Iowa

Andrew is a civil engineer intern with experience in water main design as well as construction observation. His recent responsibilities included design of the 10th Avenue and 29th Avenue water main replacement for East Moline and construction observation for utility projects in Camanache. He is currently designing the raw water main for Park View Water & Sanitary District. Andrew will provide similar services for your project.

TAMI WILCOX, PE
EWST & SITE DESIGN

EDUCATION

Bachelor of Science, Civil Engineering, Iowa State University
Master of Business Administration, Business Administration, University of Iowa

PROFESSIONAL DESIGNATIONS

Professional Engineer, IA, IL
OSHA 10 Hour General Industry Certification, OSHA-Occupational Safety and Health Administration

Tami's has nearly 15 years of experience which includes site design for commercial, industrial, and water / wastewater facilities. Prior to joining Shive-Hattery, Tami was a design engineer for an EWST manufacturer (PDM). She is currently involved in the EWST for Earlham. Tami will work with EWST manufacturers in the design of your project as well as lead the site design for the EWST and booster station.

JOSEPH APPEL, SE, PE, LEED AP
STRUCTURAL DESIGN

EDUCATION

Bachelor of Science, Civil Engineering, Bradley University

PROFESSIONAL DESIGNATIONS

Professional Engineer, IA, IL
Registered Structural Engineer, IL
LEED AP
NCEES Record
OSHA 10 Hour General Industry Certification, OSHA-Occupational Safety and Health Administration

Joe's variety of structural engineering experience has focused on the design of many healthcare, industrial, and government facilities that have been constructed of steel, concrete, and masonry. He has provided design for foundations, retaining walls, bridges, and concrete structures for water / wastewater treatment plants. Joe is the structural engineer for the Parkview Water & Sanitary District's Ground Storage Tanks project as well as for Earlham EWST. He will coordinate with tank manufacturers and provide foundation design for your new EWST and booster station. ***Joe and his family are long time residents of the Village of Coal Valley.***

PROJECT TEAM Continued

JAKE HENKLE, PE
ELECTRICAL DESIGN

EDUCATION

Bachelor of Science, Electrical Engineering, University of Iowa

PROFESSIONAL DESIGNATIONS

Professional Engineer, IA, IL, IN, KS, MI, MN, MO, NE, OK, WI
NCEES Record

Jake has provided engineering design, plans and specifications, field observations, and trouble shooting for electrical systems numerous project types. His expertise includes design analysis and engineering of normal and emergency power distribution systems, along with building lighting, fire alarm, and communications systems. Jake designed electrical and controls for the Earlham EWST Project and will design such systems for your projects.

GARY GROSS, PLS
LAND SURVEYOR

EDUCATION

Bachelor of Science, Civil Engineering Technology, Southern Illinois University

PROFESSIONAL DESIGNATIONS

Registered Land Surveyor, IA, IL
OSHA 10 Hour General Industry Certification, OSHA-Occupational Safety and Health Administration

Gary has over 33 years of experience including projects that require topographic, boundary and ALTA/ASCM surveys; 3D scanning; mapping; construction and utility staking; water main storm sewer, sanitary sewer and drainage projects; collecting property and right-of-way related data; and intersection and road improvement projects. As the crew chief for the field surveyors, Gary also performs boundary calculations as needed. Gary will lead the surveys for your project.

SARA SOMSKY, PE
GEOTECHNICAL ENGINEER

EDUCATION

Master of Science, Civil Engineering, Iowa State University
Bachelor of Science, Civil Engineering, Iowa State University

PROFESSIONAL DESIGNATIONS

Professional Engineer: IA, IL, KS, MO, MN, WI

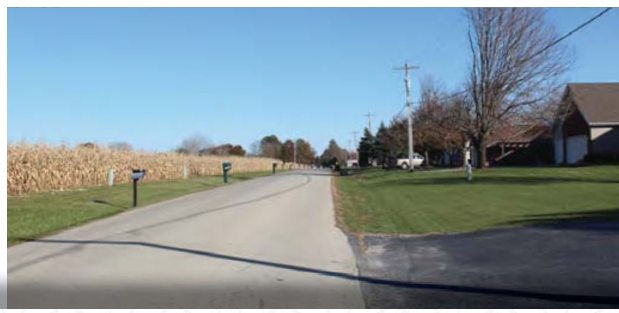
Sara currently serves as the geotechnical department manager at Terracon's Bettendorf, Iowa office. She has completed geotechnical evaluations on a variety of projects including bridges, retaining walls, roadways, community/recreational centers, pools, retail/commercial buildings, water treatment plants and elevated water towers. Sara will lead the geotechnical investigation for your project.

STANLEYCONSULTANTS

VILLAGE OF COAL VALLEY, ILLINOIS

Water Main and Storage Engineering Services

November 15, 2019



STANLEYCONSULTANTS, Inc
225 Iowa Avenue » Muscatine, IA 52761
563.264.6600» stanleyconsultants.com

November 15, 2019

Annette Ernst
Village Administrator
Village of Coal Valley
Village Hall, 900 1st Street, PO Box 105
Coal Valley, IL 61240

RE: Village of Coal Valley Water Main and Storage Engineering Services

Dear Ms. Ernst and Members of the Selection Committee:

We are pleased to be considered for the Village of Coal Valley Water Main and Elevated Storage project. We very much would like to apply the knowledge and experience that we have gained from providing engineering services on similar water supply projects across Illinois and Iowa to your benefit.

WHY CHOOSE STANLEY CONSULTANTS

Stanley Consultants is recognized in the engineering industry for our commitment to client service and for our passion to make a difference. We bring global knowledge, over a century of experience, and multi-disciplinary capabilities to best serve the Village of Coal Valley. As an employee-owned company, our members are especially proud that they can make a difference for you. Stanley Consultants brings the following benefits to the Village of Coal Valley:

- Strong project leadership to efficiently guide the team and Village through the planning process. Our proposed Project Manager, Jay Brady, PE has 28 years of experience in water and wastewater systems. As Project Manager, he is responsible for communications with the Village, directing the technical team, coordinating subconsultants, and managing the project to meet schedule, scope, budget, and quality objectives.
- Expert personnel experienced in water storage tanks, pipelines, and booster pump stations with ample capacity to execute your project.
- Effective communication with the Village including regular written updates of project status, work activities, and critical issues.
- Technical support to aid the Village staff with public communications of project plan and construction schedule.
- Use of technology including Civil 3D to minimize changes during construction and associated cost growth.

Thank you for the opportunity to state our qualifications for this project. Our team is excited to work with the Village of Coal Valley on this critical infrastructure project. Stanley Consultants is humbly confident that we can provide the engineering expertise and guidance necessary to smartly implement this project while maintaining stewardship of public funds.

Primary Point of Contact & Client Services Manager
Kjrsten Bobb, PE
563.264.6497 (Direct) | 319.470.2316 (Mobile)
BobbKjrsten@stanleygroup.com

Secondary Contact & Project Manager
Jay Brady, PE
563.264.6722 (Direct)
BradyJay@stanleygroup.com

Sincerely,
STANLEY CONSULTANTS, INC.

Kjrsten Bobb, PE

ABOUT STANLEY CONSULTANTS

Stanley at a Glance

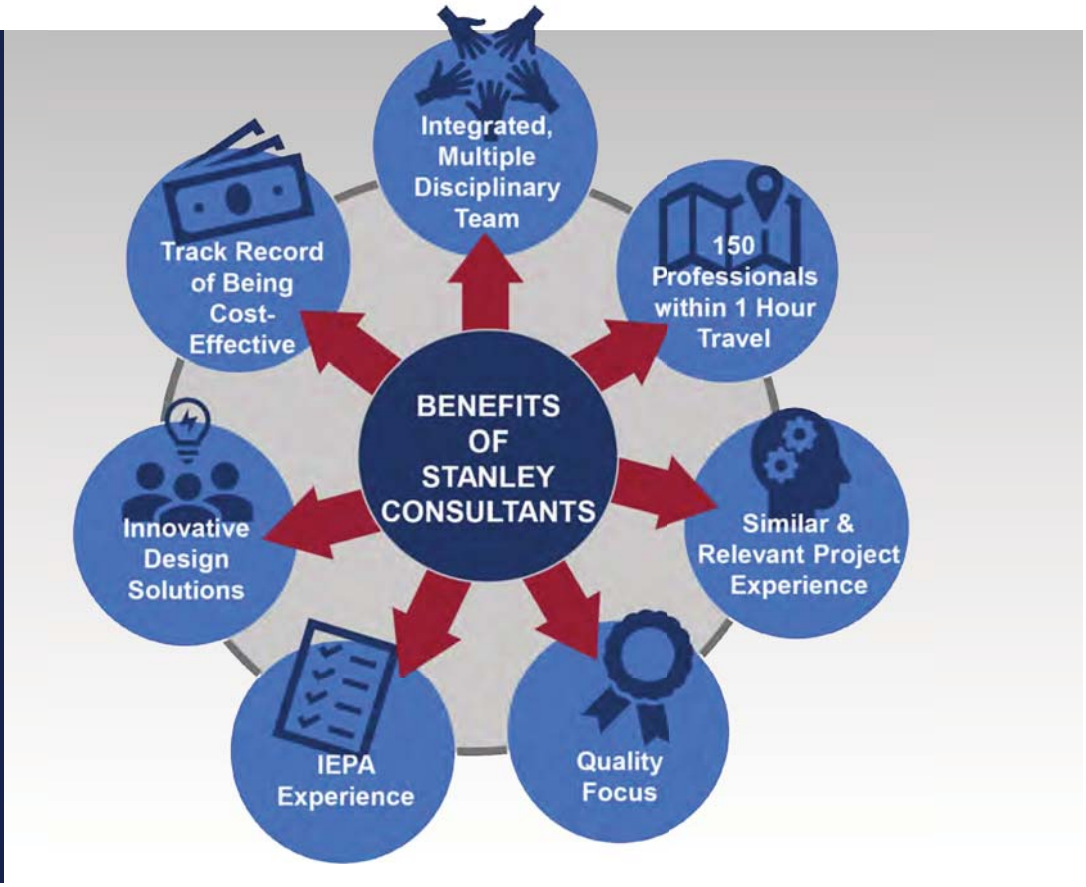
1913
YEAR FOUNDED

1,000
EMPLOYEES

34
OFFICES WORLDWIDE

OFFICE CONTACT
225 Iowa Avenue
Muscatine, IA 52761

Kjrsten Bobb, PE
BobbKjrsten@
stanleygroup.com
Direct: 5563.264.6497
Mobile: 319.470.2316



RANKINGS - 2018 ENR

#22
Top 25 in Sanitary & Storm Sewer

#25
Top 25 in Wastewater Treatment Plants

#44
Top 50 in Water Supply

#34
Top 50 in Sewage & Solid Waste

#78
Top 500 Design Firms

OVERVIEW OF STANLEY CONSULTANTS

Stanley Consultants has been serving Illinois and the Quad Cities communities from Chicago, Illinois and Muscatine, Iowa for over 60 years. The company is a member-owned, national full-service consulting engineering firm headquartered in Muscatine, Iowa. Our company provides high quality professional services in the areas of infrastructure, energy systems, and environmental for a diverse clientele including; municipal, state, and federal government agencies; industrial; institutional; and commercial/private including investor owned utilities. Our clients repeatedly turn to us to solve their challenges both large and small resulting in a 90% level of repeat business. We have a track record of success with 2,500 different clients and 28,000+ engagements over our 105 year history.

Our Muscatine office opened in 1913 and has about 220 staff members. Our Chicago office opened in 1953 and includes almost 60 members. Our team has the expertise that comes from completing over 1,500 local projects. Stanley Consultants has the resources to dedicate to your project and expedite successful project completion.

MAJOR FIELDS OF SPECIALIZATION

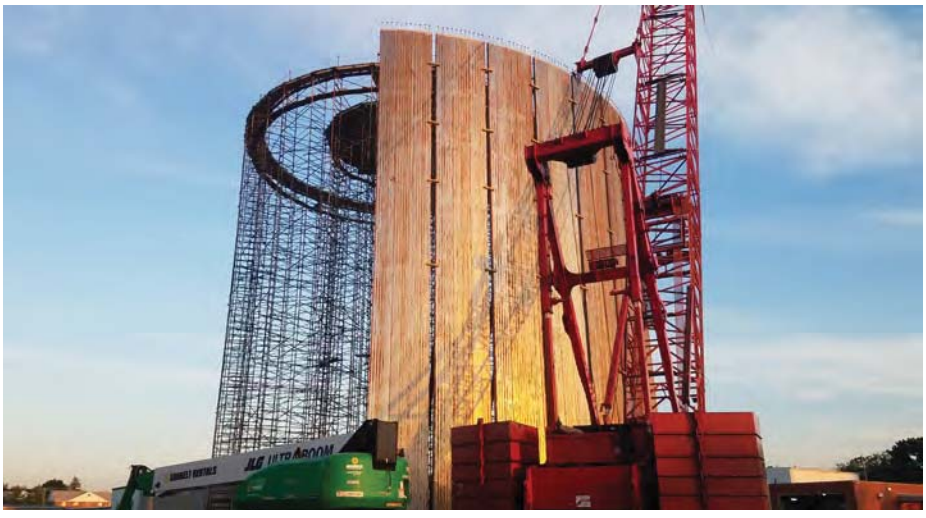
Stanley Consultants provides the following relevant service:

Water Pumping Services

- Pump station design
- Chemical feed
- Pump station rehabilitation/modification
- Pump station expansion
- Surge analysis
- Surge mitigation
- Easement acquisition
- Electrical & mechanical
- Instrumentation & controls
- Variable frequency drives
- Standby power
- Cost estimating
- Construction administration & inspection
- Commissioning
- Startup support

Water Transmission & Distribution Services

- Route alignment
- Easement acquisition
- Pipe sizing & selection
- Hydraulic modeling
- Surge analysis
- Cleaning, disinfection & pressure testing
- Cost estimating
- Construction administration & inspection
- Commissioning
- Startup support



Water Storage Services

- Water system master planning
- Hydraulic & service area analysis
- Capacity determination
- Water age analysis
- Disinfection by-product control strategies
- Energy optimization studies (pumping vs. storage)
- Environmental assessment
- Right-of-way/easement acquisition
- Regulatory compliance
- FAA coordination
- Construction permitting
- Elevated tanks
- Ground-level tanks
- Steel tanks
- Pre-stressed concrete tanks
- Composite tanks
- Performance coatings
- Structural modifications & repairs
- Corrosion control
- Design-Bid-Build project delivery
- Cost estimating
- Startup services
- Inspection services
- Tank assessments
- Structural evaluations
- Testing services
- Tank cleaning
- Asset preservation

WATER

WATER PUMPING CAPABILITIES

Stanley Consultants has provided planning, design, and construction management services for pump stations up to 60,500 HP, and conveyance systems capable of delivering 407 mgd. Our services include the full range of disciplines needed to "move the water".

Stanley Consultants' water professionals work in seamless teams with our electrical, mechanical, and structural engineers to generate well-coordinated construction documents that minimize construction conflicts.

Our services encompass planning, detailed design, bidding, and construction management services, providing you with a one-stop-shop for developing transmission and pumping infrastructure.

WATER TRANSMISSION & DISTRIBUTION CAPABILITIES

Stanley Consultants has provided planning, design, and construction management services for transmission mains up to 180-inch diameter, and conveyance systems capable of delivering 407 mgd. Our specific streamlined approach to routing, phasing, design, and construction of major infrastructure improvements includes all stakeholders and results in quality, on-time, and within budget project delivery.

We have provided engineering services for water transmission and distribution pipelines including environmental assessment, route analysis, pipe material selection, hydraulic modeling, pipe sizing, design, construction documents, construction administration, and construction inspection. We have specified installation techniques such as tunneling, jack-and-bore, and directional drilling.

WATER STORAGE CAPABILITIES

Stanley Consultants has provided planning, design, and construction management services for storage tanks with capacities of up to six million gallons. We have expertise in design, construction, and rehabilitation of elevated and flat-bottom steel tanks, pre-stressed and poured concrete tanks, and composite tanks.

Whether constructing a new tank, modifying an existing tank, or preserving current assets, Stanley Consultants is dedicated to working with you to achieve project success. We provide a full range of services for new tank construction including environmental assessment, right-of-way and land acquisition, water system master-planning, energy optimization studies, engineering design, and construction management.

Our professionals also have experience in the design and installation of disinfection by-product control and tank mixing systems. Our engineers have designed storage facilities that maintain volumes needed for meeting daily water needs and maintain adequate storage for fire protection; and they have successfully designed mixing systems to manage the water age.

Our multi-discipline "in-house" team provides civil, structural, mechanical, and electrical engineering services, as well as land surveying, environmental, and landscape architecture for tank services resulting in on-time, cost-effective delivery of storage tanks.

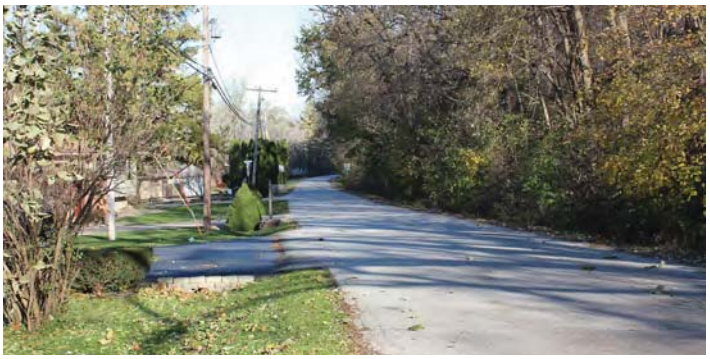
PROJECT APPROACH

The successful completion of a project requires professional and technical expertise from many disciplines. Programming these services into a responsive, integrated team is a prerequisite for efficient and effective project development. Our approach to project management emphasizes communication and coordination to meet specific objectives of the project. As with any project that Stanley undertakes, the three main areas of importance are scope, schedule and budget. A well-defined scope of work that is mutually agreed upon serves as the basis for developing an accurate project budget, and subsequently a schedule of deliverables is developed that are linked to milestone submittals.

Stanley Consultants proposes the following 5-phase project approach for discussion with the Village:

DESIGN DEVELOPMENT PHASE

- Kickoff Meeting with Village of Coal Valley. Our team puts emphasis on the importance of project kick-off and review meetings. We request all stakeholders to be involved in the process so that we understand the issues and needs of the Village in order to provide the appropriate solutions and improvements.
- Conduct field activities such as survey and geotechnical investigation.
- Establish design fire flow scenario in collaboration with the fire district, Insurance Service Organization, and Village staff.
- Establish design service areas and populations – present and future including the three nearby external subdivisions in collaboration with Village staff.
- Determine design tank sizing with consideration of fire water set aside, existing average water demand, operating level range, and volume allocated for growth.
- Assuming tank volume will be beyond IEPA's maximum (two times average day demand), analyze and develop engineered mitigation necessary to permit a larger volume beyond IEPA maximum. Analysis will include system water age, tank mixing and disinfection residual.
- Determine booster pump station location and configuration in collaboration with Village staff.
- Identify preferred alignment of 12-inch water main.
- Prepare draft engineering report summarizing the results and concept figures of the elevated tank site, booster pump station, PRV station, and 12-inch water main alignment.
- Prepare initial estimate of probable construction cost.
- Support Village outreach to external users.
- Meet with Rock Island County to discuss project and water main route.
- Meet with Village staff to review report.
- Council presentation.
- After updating the report to reflect Village feedback, submit to IEPA for review, and confirmation of tank sizing.



PRELIMINARY DESIGN

- After confirming elevated tank size with IEPA, proceed with Civil 3D preliminary design drawings for the various elements of the project with consideration of:
  - Minimizing utility and surface feature conflicts.
  - Constructability.
  - Ease of maintenance and operability.
  - Safety features.
  - Drawing clarity.
- Prepare preliminary project manual including project draft contract and general conditions, and technical specifications.
- Prepare updated estimate of construction cost.
- Meet with Village staff to review.
- Council presentation.
- Submit preliminary design to IL DNR and IHPA.and to USACE for stream crossing permit.

FINAL DESIGN

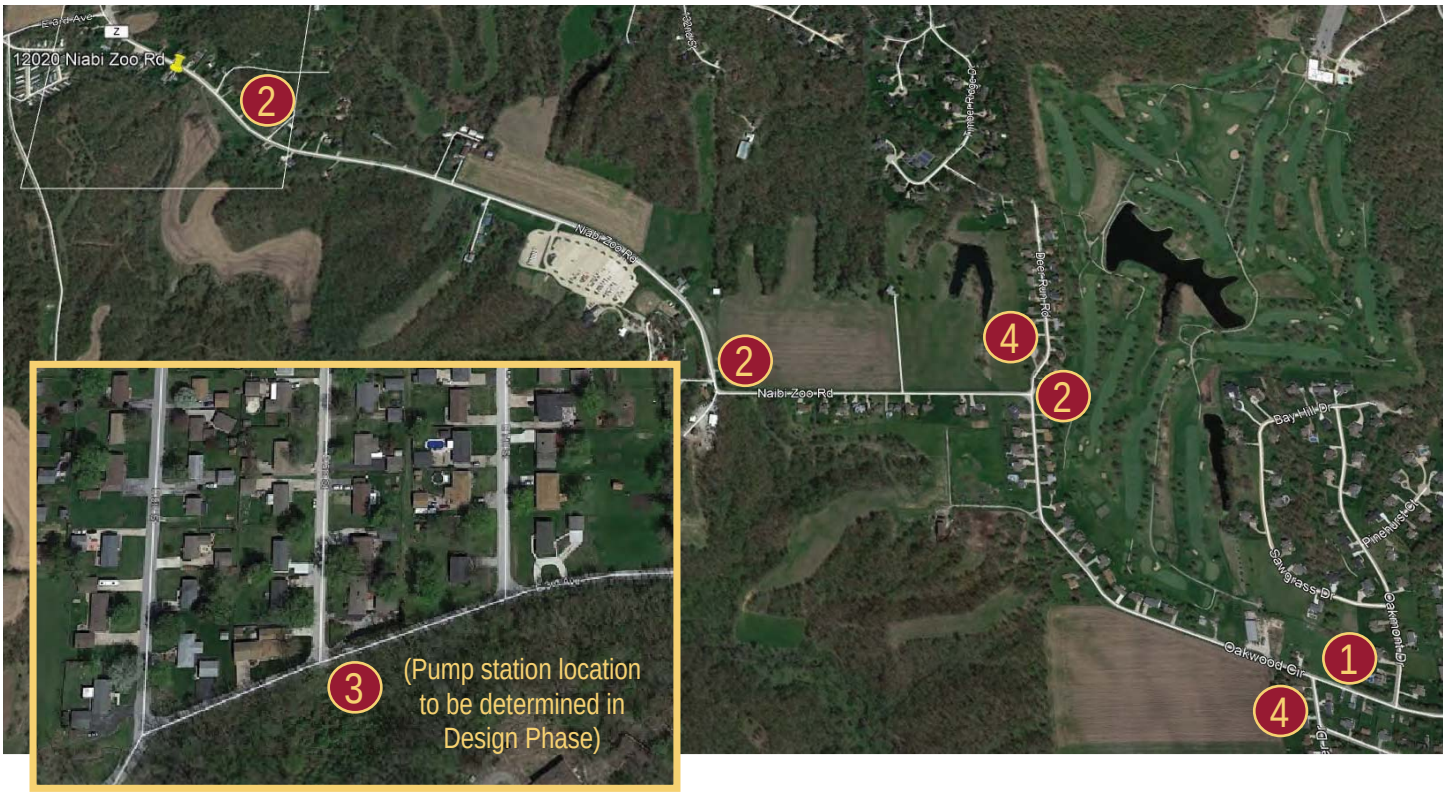
- Prepare final design contract documents consisting of project manual and drawings suitable for permitting and bidding.
- Finalize Engineer's Opinion of Construction Cost.
- Submit to Rock Island County for permit.
- Submit IEPA Construction permit application.

BIDDING PHASE SERVICES

- Provide printed bid documents.
- Distribute to plan houses and potential bidders.
- Respond to bidder questions, issue addenda, conduct pre-bid meeting, attend bid opening, evaluate bids and make recommendation for award.

CONSTRUCTION PHASE SERVICES

- Administer construction contract.
- Review pay applications.
- Review shop drawings.
- Respond to requests for information.
- Issue instructions to contractor, review proposed changes, prepare change orders, conduct preconstruction meeting, attend periodic progress meetings.
- Perform substantial and final completion walkthroughs.
- Provide periodic construction observation services.



KEY SUCCESS FACTORS

Our engineers have identified key issues that are key to a successful project for the Village of Coal Valley. The Key Success Factors table provides an initial listing of these key issues as well as an approach for resolution.

KEY ISSUE	WHY CRITICAL	OUR RESOLUTION	BENEFIT OF OUR APPROACH
1 Determine population and area to be served	Sets tank and main sizing	Set present, 20-year, and ultimate service areas and populations	Understanding of populations/ areas over time allowing optimal tank sizing
1 Determine design fire flow	Sets tank and main sizing	Use fire district input with consideration of insurance classifications to establish design fire demand	Understanding of fire demand flows allowing optimal tank sizing
1 Elevated tank sizing	Provide adequate water supply while managing water age	Optimize tank size for water and fire demands over time with consideration of water age impacts on quality	Right size tank that balances present, future, and fire conditions while maintaining water quality
1 Elevated tank water quality provisions	Potential exists for oversized water tank that may require engineered provisions to maintain quality	Evaluate/add engineered provisions such as tank mixing, baffling, and chlorine addition that are used to maintain water quality.	Maintains water quality and regulatory compliance while allowing larger tank size
2 Niabi Zoo Road water main routing	Avoid surprises that lead to construction cost increase	Accurately locate underground utilities and surface features for incorporation into Autocad Civil 3D	Reduces bid cost and minimizes construction surprises and associated costs
3 Booster pump station configuration	Provide safe, economical design	Collaborate with Village staff to vet various pump station configurations for safety	Safe, economical pump station that meets staff needs

PROJECT APPROACH

KEY ISSUE	WHY CRITICAL	OUR RESOLUTION	BENEFIT OF OUR APPROACH
1 3 Provide operable and maintainable system	Minimize operation and maintenance demands on limited Village staff	Collaborate with Village staff to incorporate provisions that minimize operation and maintenance such as durable materials, mildew resistant paints, and smart technology for automated alerts	Durable and operable infrastructure
4 Locate appropriate future connections	Facilitate future system extensions	Work with Village staff and as appropriate external stakeholders to define any future system extension connections be incorporated into the construction	Facilitate adding external systems
Keep council informed	Key stakeholders that finance the project	Provide weekly status to Village staff and regular Council project updates	Allow timely input from Village staff and council and avoids unwanted surprises
Support external stakeholder outreach	External potential customers input needed to provide best long-term system	Assist Village staff with development of strategies, questionnaires, and meeting information pieces for Village staff use	Facilitate planning for connecting external water systems and obtains information about external water systems' infrastructure potentially in conflict with new water piping
Minimize construction cost growth	Contain project budget	Produce accurate 3D plans and Incorporate contract provisions that contain costs	Reduces bid cost and minimizes construction surprises and associated costs

Detailed Water Supply Corridor & Route Study

VILLAGES OF MORTON GROVE & NILES, ILLINOIS

The Villages of Morton Grove and Niles had the opportunity to significantly reduce their cost of water by changing suppliers from the City of Chicago to the City of Evanston. To make this possible the Villages formed a water commission, MGNWC, and hired Stanley Consultants to perform preliminary engineering and a detailed corridor study to determine the best locations and routes for the new MGNWC infrastructure. This project was completed on an accelerated completion schedule because Morton Grove's water supply contract with the City of Chicago terminates in December 2018, while Nile's contract ends December 2019. The preliminary design was conducted in 5 months.

CLIENT ›
Villages of Morton Grove & Niles

KEY SERVICES ›
- Hydraulic Analyses
- Construction Cost Estimates
- Pipeline sizing
- Pipeline routing

The project evaluated the basic chemistries of the waters leaving Evanston's and Chicago's water treatment plants; investigated the feasibility of repurposing Skokie's existing system to deliver to Morton Grove and Niles using engineering analysis and computer hydraulic modeling; established the pipeline design criteria, including size, material and standard details, to convey an average flow of 7.2 mgd and a peak flow of 12.7 mgd; determined the most favorable sites for the pump stations and reservoir and identified the most cost-effective and least disruptive routes for a water transmission main from the Evanston connection point to the existing MGN receiving reservoirs by considering dozens of criteria on a block by block basis in the study area.

After the analysis, several routes were identified for further consideration. Additional analysis, a preliminary cost estimate, and input from the Village of Skokie were used to select the recommended alignment of the shared transmission main and the individual service connection transmission mains.

This design report proposed 12 miles of 30-inch shared transmission main and 20-inch feeder mains, and the installation of 12,000 feet of Class IV cured-in-place pipe (CIPP); the Intermediate Pump Station to boost pressure to convey water to a 7.0 million gallon reservoir and the MGNWC Pump Station that will deliver water to Morton Grove and Niles and increase fire flow in the Niles system to offset the repurposing of a 20-inch diameter pipe from the Niles distribution system in this area. The estimate of probable cost compiled during this corridor study is $96,200,000 for engineering, land acquisition and construction.

88th Street Pump Station Design

WEST DES MOINES,IOWA

The original 88th Street pump station site contained a booster pumping station and 2 million gallon elevated water storage tank (EWST). The EWST height was insufficient to adequately serve the area. Stanley Consultants prepared a report to remedy the situation and use the existing EWST. Specific components of the recommended plan include: new booster pump station; replacing existing pumps inside the existing booster pump station; new 24-inch site piping; new second connection with adjoining water service provider (approximately 525-feet of 16-inch water main). Stanley Consultants provided a preliminary design report, followed by completion of the final design plans and specifications. The preliminary design report covers pump capacity calculations and operating characteristics of existing and new pumps, pump station layout plan, layout of site piping, valves and connections, outline of technical specifications and cost estimate. Final design of the pump station includes preparation of plans and specifications and cost estimate.

CLIENT ›
West Des Moines Water Works

KEY SERVICES ›
- Pump Station Upgrades
- Elevated Water Tank
- Cost Estimates
- Plans & Specifications

Water Supply Transmission Mains & Facilities Design

VILLAGES OF MORTON GROVE & NILES, ILLINOIS

Following the studies and providing proof of concept, Stanley Consultants provided design engineering services that included hydraulic analyses and final designs for 12 miles of 30-inch and 20-inch ductile iron water transmission main, two water pumping stations, and a standpipe. Evaluation of transmission main alignments and construction techniques was included in the design. The selected alignment and combination of construction techniques, including trenchless river crossings, was selected to minimize risk, impacts to environmentally sensitive areas and provide the best value.

CLIENT ›
Villages of Morton Grove & Niles

KEY SERVICES ›
- Water Main Extension
- Water Storage Tank
- Water Pump Stations
- IEPA, IHPA, ILDNR Permitting

Two water pumping stations were designed to convey water from Evanston to the Villages. The Intermediate Booster Pumping station, located in Evanston, has an average day pumping capacity of 5,000 gpm and maximum day capacity of 8,800 gpm. The Nagle Avenue Pumping Station, located in Morton Grove, includes three separate sets of pumps that supply water to the two communities. One set of pumps serving Morton Grove has an average day pumping capacity of 2,200 gpm and maximum day capacity of 4,000 gpm. The second set of pumps, serving Niles, has an average day pumping capacity of 2,800 gpm and maximum day capacity of 4,800 gpm. The third set of pumps supplies water directly to the Niles distribution system and has a pumping capacity of 2,000 gpm.

The prestressed concrete standpipe is located adjacent to the Nagle Avenue Pumping Station has a usable capacity of 7-million gallons, and stands 100 feet tall maintaining system pressure when the pump stations are not in operation.

The project also includes the structural lining of 2.3 miles of existing water transmission main, improvements to the communities' existing ground level reservoirs, and a comprehensive SCADA control system that allow the smooth operation of all of the facilities in conjunction with the Villages' existing storage and distribution systems.

The project is on an accelerated schedule dictated by expiring water supply contracts with the City of Chicago and the significant daily cost savings once the change of supply is executed. Water should be flowing to Morton Grove by the end of 2018 and to Niles by the end of 2019. Because of this schedule, Stanley Consultants knew the importance of a united and collaborative set of goals among the various stakeholders at the kick-off of the project. Stanley initiated an early meeting among all parties involved to discuss project concerns, schedule, and scope of work. The cooperative efforts allowed for planning and design to move forward with only 11 months between the initiation of planning and the successful receipt of bids.

Stanley Consultants is nearing completion of the construction phases for this project. Stanley Consultants provided a program manager, resident engineers, and inspectors to guide the completion of the facilities within the allowable timeframe.

Wilmette Kenilworth Water Interconnection Design

VILLAGE OF WILMETTE, ILLINOIS

The Village of Wilmette has excess water treatment and conveyance capacity and is interested in supplying water to its neighbor, Kenilworth.

The two communities working in cooperation authorized the preparation of a report detailing the options, considerations, and costs of interconnecting the two water systems.

CLIENT ›
Village of Wilmette

KEY SERVICES ›
- Water Main Extension
- Pump Station with Generator
- Plans & Specifications

The agreed upon solution included the installation of 2,200 feet of 12-inch diameter water main installed by a combination of open trench, directional drilling, and boring/jacking; a new system interconnection with an existing 36-inch PCCP water transmission main; an emergency interconnection point with control valve and meter; a 1,900 gpm five pump prefabricated underground water pumping station with engine generator; and SCADA improvements interconnecting the control systems of the two villages.

The project required coordination of the two villages, IDOT, MWRDGC, utilities, and the Union Pacific Railroad.

Completion of the project will allow Kenilworth to abandon its existing water treatment plant and reduce water supply costs and Wilmette to better utilize the excess water treatment capacity.

Water System Planning & Pump Station Rehabilitation at Beechnut Reservoir

CITY OF WAUKEGAN, ILLINOIS

The City of Waukegan maintains a water distribution system that is divided into four pressure zones. Stanley Consultants was asked to review the need for these four zones and to recommend operational changes. Upon review of the available information we found that the system could be consolidated into two pressure zones; one serving the east half of the City and one serving the west half. Making this change will enhance the ability of the system to handle loss of pumping emergencies by being able to supply water on the west side of the community from multiple points. The Beechnut pump station is one of the points of supply. After reviewing the operation of the station and assessing the existing equipment, Stanley Consultants made recommendations for improvements. After reviewing the findings with the City, Stanley Consultants prepared plans and specifications for the replacement of the existing reservoir flow control valve with a new butterfly valve; replacement of the existing 12-inch mag meter with a new 16-inch mag meter; and installation of a new pressure relief valve in the pump station discharge piping. These improvements notably reduced the operational issues at the pump station and greatly improved the station metering accuracy.

CLIENT ›
City of Waukegan

KEY SERVICES ›
- Water Distribution
- Multiple Pressure Zones
- Pump Station Optimization

Arbury Hills North Water Main Replacement

MOKENA, ILLINOIS

Stanley Consultants performed design and construction services for a water main replacement project to replace failing mains with ductile iron pipe by directional drilling.

The original system was installed in the 1960s. As was common at that time, the ductile iron water mains were installed on easements in the backyards of homes.

CLIENT ›
American Water Company, Illinois

KEY SERVICES ›
- Water Main Replacement
- Plans & Specifications

This project included the installation of new mains and services, approximately 7,800 feet of 8-inch water main, approximately 150 feet of 6-inch water main and the reconnection of over 100 homes. The existing mains were inadequate in size and are corroding. Repairs would have been very difficult and expensive because of the pipe locations.

The new service lines to each home were also directionally drilled into place. The new mains (plastic wrapped ductile iron) were installed using directional drilling.

Elevated Water Tank

DAVENPORT, IOWA

The City required a new elevated water storage tank to service the Central Park Pressure Zone. A 1.0 MG spheroid elevated tank was designed including associated yard piping, and 1,200 feet of 12-inch water main. Designed with a single pedestal steel style. Tank features included long service life coating system including special logo. Features included radio telemetry operational control system with the controls integrated into existing SCADA system. The team coordinated with FAA and Iowa DNR and City of Davenport Zoning and Planning Department.

CLIENT ›
Iowa American Water Company

KEY SERVICES ›
- Water Tower

Water Distribution System Improvements

MASON CITY, IOWA

The project included a new 500,000-gallon elevated tank including piping and appurtenances, instrumentation, electrical, and related site work. The project also included a new 3,000 gpm total capacity booster pumping station located near the existing Hoover elevated tank site. Pumping station scope included all site, building, mechanical, and electrical work. In addition, the improvements included water mains, valves, hydrants, appurtenances, and connections to the existing distribution system.

CLIENT ›
City of Mason City

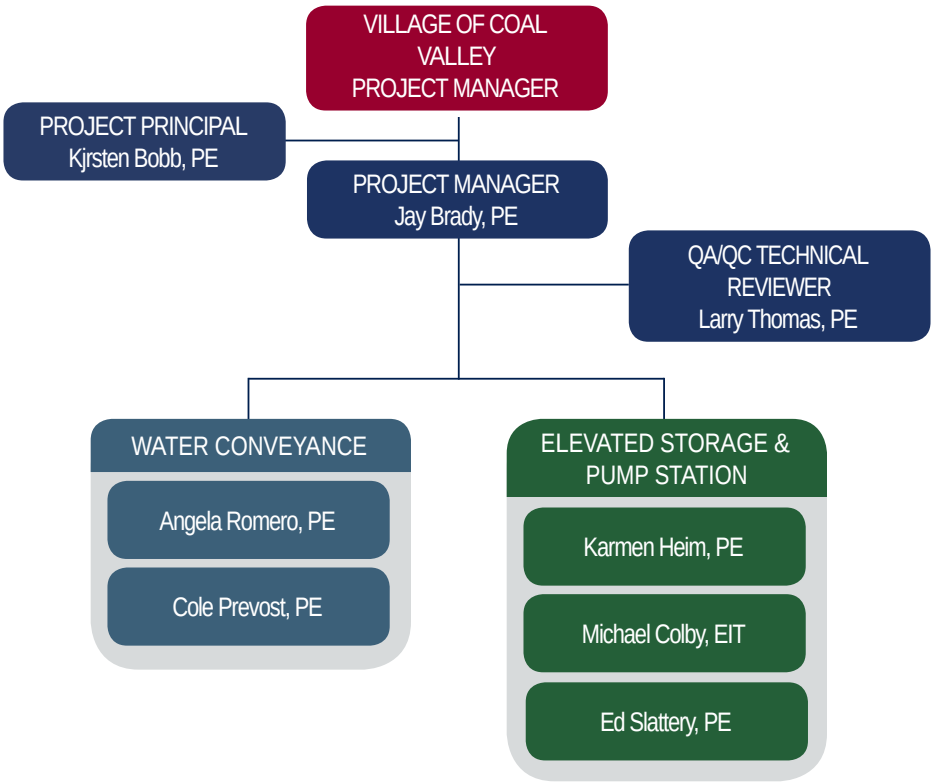
KEY SERVICES ›
- Water Tower
- Booster Pump Station
- Water Main
- Pressure Reducing Stations

The Design Outline developed the required improvements, presented capital and operating cost estimates, developed design and construction packages, and presented an overall project schedule. The rate study for the water system was updated during the Design Outline Phase. An underwater inspection was also performed on the existing underground storage reservoirs and clear well.

Final design included water main additions and creation of a new high pressure zone. Water main additions consisted of approximately 30,600 feet of 8-inch through 16-inch sizes. Also included were a 500,000-gallon elevated tank, booster pumping station, pressure reducing stations, altitude valve stations, river crossing, and a radio-operated control system.

TEAM ORGANIZATION

The Stanley Team is an integrated team of professionals with qualifications and experience directly relevant to your projects. The teaming relationships of the key members are shown below:



KJRSTEN BOBB, PE

Project Principal

23 Years of Experience

Education

Master of Science, North Dakota State University, Environmental Engineering

Bachelor of Arts, Concordia College, Physical Science Education

Professional Registration

Registered Professional Engineer: Iowa

Kjrsten is the Project Principal responsible for contracting, risk management, client liaison, client satisfaction, monitoring team performance, and quality reviews. She has provided engineering and regulatory assistance to public sector clients including cities, counties, and multi-governmental agencies. Kjrsten has served as client liaison for numerous clients, serving as primary client contact and attending council and board meetings. Her professional experience includes feasibility studies, capital improvement plans, life cycle cost analyses, operations efficiency reviews, designs and construction administration for various projects including water, wastewater, remediation, and solid waste. She has been quality control project manager and engineer on construction projects in several states from small projects to projects valued over $100 million. Kjrsten's previous project experience similar to the Coal Valley project includes serving as project manager for water main connection to municipal supply with elevated storage upgrades for a maximum security prison.

JAY BRADY, PE

Project Manager

28 Years of Experience

Education

Master of Science, University of Iowa, Environmental Engineering

Bachelor of Science, University of Iowa, Civil Engineering

Professional Registration

Registered Professional Engineer: Illinois (062056565), Iowa, and Wisconsin

Professional Affiliations

- American Society of Civil Engineers
- Water Environment Federation
- Central States Water Environment Association
- Illinois Water Environment Association

Jay is the proposed Project Manager for the project. He has 28 years of experience in water and wastewater systems. His experience encompasses water and sewer system master planning and design for municipal, industrial, and U.S. government clients. His design experience includes water and wastewater pumping systems, water mains, wastewater force mains, and elevated towers. His pipeline experience ranges from 0.75 to 18 inches with projects up to 17,000 feet in length in both rural and congested urban settings. As Project Manager, he is responsible for communications with the Village of Coal Valley, directing the technical team, coordinating subconsultants, and managing the project to meet schedule, scope, budget, and quality objectives.

PROJECT EXPERIENCE

Middle Road Pump Station Design; American Water Company; Bettendorf, IA--Project Manager responsible for managing the technical team, directing technical activities, client communications, contract management, and technical review for this project that involved renovation and reconfiguration existing belowground package pump station. Included new sodium hypochlorite bleach system housed in new building for boosting chlorine residual.

East River Station Settled Water Pump Station Improvements; American Water Company; Davenport, IA--Project Manager responsible for managing the technical team, directing technical activities, client communications, contract management, and technical review for this project that consisted of replacing four existing pumps with two variable speed and one constant speed pumps with a firm capacity of 24 mgd. Replacement piping and valves associated with these pumps were included with this project. In addition, pump station improvements were made to the pump station building including HVAC and lighting modifications, new doors, a new hoist system, and minor structural repairs. Two new flow meters and an ultrasonic level sensor were also installed.

Water and Wastewater Systems; U.S. Army Corps of Engineers, Far East District; Korea--Project Engineer responsible for wastewater and water treatment technical direction to project team, sewer and water system master plan preparation, quality reviews of water and wastewater systems planning and design, and design analysis narrative preparation. Included master planning and conceptual design of water system consisting of two wells, well pumps, raw water piping, raw water storage tank, process pumps, ion exchange and pressure filtration treatment with sodium hypochlorite disinfection, elevated water storage tank with mixing, and water distribution piping.

Sewer Rehabilitation and Water Main Replacement; City of Mediapolis,IA--Project Principal responsible for contracting, risk management, client liaison, client satisfaction, monitoring team performance, technical consultation, and quality reviews. Work includes replacement of one block of 8-inch water main.

JAY BRADY, PE - CONT.

Refueler Ramp Fire Water System, U.S. Army Corps of Engineers, Middle East District--Senior Environmental Engineer responsible for design of fire water system consisting of ground fire water storage tank, NFPA compliant package fire pump station, and 12-inch fire water distribution network to serve the ramp.

Water and Wastewater Systems; Iowa Fertilizer Company; Wever, IA--Principal Environmental Engineer responsible for providing waste and wastewater systems consultation, technical direction and reviews for water and wastewater systems on this new greenfield 300 acre industrial site. Water work consisted of new raw water wells, raw water piping, lime softening treatment, and new site water distribution mains. Subsequently, two new radial collector wells and 3,000+ feet raw water pipeline were designed.

DOD Unit Consolidation Building Feasibility Study; U.S. Army Corps of Engineers, Baltimore District; Humphreys Engineering Center, VA--Project Engineer responsible for determining the most feasible method of providing water, sewer, and gas to the proposed 250,000 square foot building. Other responsibilities include examination of the environmental impacts of the facility on sensitive second growth forest area such as endangered species, cultural resources, wetlands, and land use. Recommendations include 4,000-feet of 16-inch diameter water main and over 3,000-feet of 8-inch gravity sewer.

Site 27 Interim Remedial Action (Effluent Line); Nellis Air Force Base; Las Vegas, NV--Project Engineer for project consisting of modifying contractor design of effluent piping. Modification includes replacing submersible centrifugal effluent pumps with vertical turbine pumps and rerouting effluent piping an additional 17,000 linear feet to a multipoint discharge. Discharge options include discharging to the Base golf course, discharging to ground surface, and discharging to abandoned sewage lagoons which are now wildlife habitat.

Groundwater Supply Study; PB Leiner USA; Davenport, IA--Project Manager for an engineering evaluation to determine the cost effectiveness and feasibility for this industry to switch its production water supply to groundwater. Included evaluation of available aquifers and associated water yield and quality, water treatment needs and technologies including iron removal with chemical oxidation/filtration, softening using demineralizers or reverse osmosis, and chemical disinfection. Alternatives for wells and treatment were developed to meet the 1.0 mgd water demand, and capital and operating costs projected. The results of the evaluation were summarized in a report that could be used for implementation of the water source change or negotiation of water rates.

Riverboat Development; Aztar, Inc.; Caruthersville, MO--Project Engineer for site utilities for a new riverboat gambling development. Project includes design of 6-inch water main, 6-inch and 8-inch gravity sanitary sewer, approximately 650 liner feet of 3-inch force main, and an 85-gpm lift station. Additional services include determination of storm water runoff quantities.

Sidney Flood Protection; City of Sidney; Sidney, NE--Project Engineer for design, plans, and specifications for relocating 6-inch and 8-inch water main, 4-inch and 6-inch sprinkler main, and 8-inch and 10-inch sanitary sewer, two 110 gpm sewage lift stations, and several inverted siphons as part of a federal flood protection project.

Maintenance Docks; Whiteman Air Force Base; MO--Staff Engineer for design of 3,000 liner feet each of water, sanitary sewer, and industrial waste drain through highly-congested areas around flight line. Involved a large amount of coordination between disciplines and other phases of the project.

LAWRENCE THOMAS, PE

QA/QC Technical Reviewer

41 Years of Experience

Education

Master of Science, Civil Environmental Engineering – University of Illinois

Bachelor of Science, Civil Environmental Engineering – University of Illinois

Professional Registration

Registered Professional Engineer: Illinois (062-038393), Arizona, Florida, Iowa, and Wisconsin

Board Certified Environmental Engineer: American Academy of Environmental Engineers

Professional Affiliations

- American Academy of Environmental Engineers- IL Certification Examination Panel
- American Society of Civil Engineers
- American Water Works Association (AWWA) - Director 1996-1999 & 2003-2006; Standards Council Chair 2003-2006; Standards Well Committee 2011-present; Standards Council 2012 - present
- Illinois Section American Water Works Association - Chair 1992-1993; Top-Ops Committee Chair 2010-2017
- Water Environment Federation

Larry is responsible for the management of water and wastewater projects in northern Illinois and is an accomplished expert in the fields of water supply, transmission, treatment, storage, and distribution. He has planned and designed water facilities for more than 40 communities using surface and groundwater sources. He has helped guide the development of regional water planning and facilities in the NE Illinois region for over 30 years. Larry is a former Chair of the American Water Works Association Standards Council; former AWWA Director representing Illinois; and former member of the Association's Executive Committee and Board of Directors.

PROJECT EXPERIENCE - WITH STANLEY CONSULTANTS

- Detailed Water Supply Corridor and Route Study, Design, and Construction Management; Morton Grove-Niles Water Commission; Morton Grove & Niles, IL--Project Manager
- Water System Engineering Report; Ottumwa Water & Hydro; IA--Project Manager
- Crestwood Water Pumping Station Improvements; Village of Westchester; Westchester, IL--Project Manager
- Wastewater Treatment Plant Modifications and Wastewater Pumping Station Design; Baxter Healthcare Corporation; Round Lake, IL--Project Manager
- Water & Wastewater Planning Study; Baxter Healthcare Corporation; Round Lake, IL--Project Manager
- Round Lake Facility Wastewater Treatment Plant Filtration Equipment Replacement; Round Lake, IL--Project Manager
- CMOM and Wastewater Treatment Plant Nutrient Removal Study; City of Rock Falls, IL--Project Manager
- Main Wastewater Pumping Station/Water Reclamation Facility Improvements Construction; City of Rock Falls, IL--Project Manager
- Water Supply Study; Industrial Plant Water Supply, ExxonMobil; Joliet, IL--Project Manager
- Round Lake Facility Water Supply Study; Baxter Healthcare Corporation; Round Lake, IL--Project Manager
- Beechnut Reservoir and Pump Station; City of Waukegan; Waukegan, IL--Project Manager
- Kenilworth Avenue and Green Bay Road Water Main Extensions; Village of Kenilworth; Kenilworth, IL--Project Manager
- Main Wastewater Pumping Station, City of Rock Falls, Illinois - Project Manager

PROJECT EXPERIENCE - WITH OTHER FIRMS

- Bay View Wastewater Pumping Station; Village of Fox Grove, IL--Project Engineer
- North River Wastewater Pump Station and Force Main; Village of Fox Grove, IL--Project Engineer
- Route 22 Wastewater Pumping Station and Force Main; ; Village of Fox Grove, IL--Project Engineer
- Route 72 Wastewater Pumping Station; Village of Kirkland, IL--Project Engineer

ANGELA ROMERO, PE

Water Conveyance

10 Years of Experience

Education

Master of Science, University of Iowa, Environmental Engineering

Bachelor of Science, Tulane University, Environmental Engineering

Professional Registration

Registered Professional Engineer: Iowa

Angela has a technical lead role in preparation of engineering studies and reports, development of preliminary and final designs, including preparation of engineering plans and specifications, regulatory coordination, and shop drawing review. Her professional experience includes investigation and condition assessment of components of water and wastewater conveyance and treatment systems, due diligence water supply investigations for a new industrial site, preliminary design for relocation of water distribution and wastewater and stormwater collection systems related to a flood protection system, sewer system planning, sanitary sewer investigations and rehabilitation prioritization, water distribution system design, and well design. Angela's water and wastewater treatment experience includes lime softening, media filtration, sodium hypochlorite disinfection, storage, pumping, residuals management, and process piping. Her software experience includes hydraulic modeling of water distribution systems using Water CAD, hydraulic modeling of river systems using HEC-RAS, and use of AutoCAD Civil3D, ESRI ArcMap, and XP-SWMM.

PROJECT EXPERIENCE

Iowa Fertilizer Plant, Iowa Fertilizer Company, Wever, IA--Environmental Engineer responsible for the preliminary design of raw water transmission mains, potable water and plant water distribution systems, sanitary and process wastewater collection systems, and interconnecting process piping. Also responsible for well design, well construction permitting, and water use permitting. Assisted with preparation of technical specifications for procurement of major equipment items and preliminary design of process piping for the 9.0 mgd lime softening water treatment plant.

Wastewater Treatment Lagoon Monitor Plan, City of Mediapolis, Mediapolis, IA --Environmental Manager responsible for the design of a sanitary sewer collection system rehabilitation and replacement, including preparation of plans and specifications. Rehabilitation included point repairs and CIPP lining of sewer pipe and injection grouting and replacing frames of manholes. Also included replacement of two sewer segments along new alignments.

Dubuque Street Elevation and Park Road Bridge Replacement, City of Iowa City, Iowa City, IA--Environmental Engineer responsible for design of water distribution and sanitary sewer collection systems required as part of the Iowa City Gateway project. Included coordination with other public and private utilities within a very crowded corridor, coordinating water and sewer designs with the phased construction plan, and increasing the size of the existing water main and trunk sewer.

Water Treatment Facility Replacement, U.S. Department of Agriculture, Mission, TX--Lead Environmental Engineer responsible for the evaluation of treatment alternatives and the design of water treatment plant improvements. Analyzed existing and future demands for the facility and alternatives for upgrading the existing package plant to address increased demands and the need for redundancy. Developed construction drawings and specifications for water treatment plant improvements, including addition of a raw water pump, a second package treatment unit, chemical feed system improvements, and process piping improvements.

COLE PREVOST, PE

Water Conveyance

8 Years of Experience

Education

Master of Science, University of Iowa, Civil and Environmental Engineering

Bachelor of Science, United States Military Academy-West Point, Civil Engineering

Professional Registration

Registered Professional Engineer: Iowa

Professional Affiliations

- American Water Works Association

Cole specializes in the design of water distribution systems. His professional experience includes the design of rural water systems, distribution mains, transmission mains, pump stations, and water storage tanks. He takes the lead on project research, producing engineering calculations, creating engineering reports, creating and reviewing plans and specifications, putting together bidding documents, and administering construction projects. Cole has extensive experience in hydraulic modeling and analysis and works with both InfoWater and WaterGEMS. He has experience with large complex water systems such as the Des Moines Water Works and rural water systems and has experience working and solving problems with water utility staff and operators.

PROJECT EXPERIENCE - PREVIOUS FIRM

Joint Maffitt Lake Park Feeder Main, Des Moines Water Works--Designed and performed construction administration on 24-inch ductile iron pipe transmission water main. Approximately 7,000 feet long and part of a three phase project to open a new water feed to the Cities of Cumming and Norwalk, Iowa.

Joint Maffitt Lake Booster Station Pump Procurement, Des Moines Water Works--Designed and specified the pumping equipment for the JMLBS. Completed the hydraulic calculations and put together procurement documents for a prefabricated pumping skid for a new booster pump station. This was phase 2 of 3 to open a new water feed to the Cities of Cumming and Norwalk, Iowa.

Northwest Warren County Feeder Main, Des Moines Water Works--Designed and performed construction administration on a 16-inch PVC transmission water main. Approximately 15,000 feet long and was phase 3 of the same projects above.

Hubbell Avenue Reconstruction, Des Moines Water Works--Designed and performed construction administration for a water main relocation project for the City of Des Moines. Involved relocating approximately 3,000 feet of water main and coordination with the City and their consultant.

Des Moines Water Main Replacement Contract 2, Des Moines Water Works--Designed and performed construction administration for a water main relocation. Involved relocating water main that had reached the end of its useful life due to age/breaks/corrosion. Approximately 7,000 feet of water main replacement.

Roadway Reconstruction Water Main Relocation, Des Moines Water Works--Designed and performed construction administration for a water main relocation project for the City of Des Moines. Involved relocating approximately 5,000 feet of South Union from Kirkwood South to Park Avenue and SE 5th Street from Broad to Park Avenue of water main and coordination with the City and their consultant.

KARMEN HEIM, PE

Elevated Storage & Pump Station

20 Years of Experience

Education

Bachelor of Science, University of Iowa, Civil Engineering

Professional Registration

Registered Professional Engineer: Iowa

Professional Affiliations

» Society of Women Engineers

Karmen's professional experience encompasses water distribution and sewer collection system master planning studies for municipalities; utility relocation design; combined sewer separation, sanitary and storm sewer design; water distribution system design; industrial waste treatment design, pump station design and rehabilitation, and disinfection treatment for combined sewer overflows. Karmen has performed hydraulic computer modeling of combined, sanitary, and storm sewer systems using XPSWMM, SewerCAD and SewerGEMS. Her water distribution modeling experience includes using WaterCAD and WaterGEMS software. Karmen is proficient at using AutoCAD Civil 3D during design to generate pipe profiles.

PROJECT EXPERIENCE

Detailed Water Supply Corridor and Route Study, Design, and Construction Management. Morton Grove-Niles Water Commission; Morton Grove & Niles, IL--Hydraulics Engineer responsible for hydraulic model analysis using Water CAD to test scenarios of serving Morton Grove and Niles from Evanston and Skokie.

Elevated Water Storage Tank Concept Plan; City of Mason City; Mason City, IA--Engineer responsible for hydraulic model analysis using Water CAD to test if the existing system can be operated with the existing elevated tower off-line. City needed to know if the old tank could be taken off line, torn down, and a new tank constructed at the same location without disrupting service to customers or causing adverse impact to the nearby restaurant.

Water Model Maintenance; City of Ames; Ames, IA--Engineer responsible for updating the City's 4,500 pipeWaterCAD/WaterGEMS model and running analyses. Included updating the hydraulic model from the model used in the 2011-2012 water age analysis with new piping and facilities. Included new water treatment plant high service pumps and 24-inch transmission main between the new plant and old plant site. Changed the 4 and 6-inch mains in the old part of town to 8-inch mains. City-wide GIS system of its utilities is maintained. GIS mapping was compared with the existing model to provide updates. Various analyses were performed to evaluate the transition of flow from the old plant site to the new plant site. Responsibilities included documenting the model update and summarizing analysis findings in the report.

88th Street Elevated Water Storage Tank Alternatives Analysis and Implementation; West Des Moines Water Works; West Des Moines, IA--Engineer responsible for hydraulic model analysis of Zone 3 using WaterCAD, demand generation, alternative analysis, and report development. Stanley Consultants provided the 88th Street Water Tower Assessment study to evaluate the recently constructed Elevated Water Storage Tank (EWST) serve that area. Hydraulic model for Zone 3 was developed to test several operating Street EWST into the distribution system using a booster pump to service Zone 3 and provide service to future Zone 4.

Water & Hydro Transmission Line Study and Pump Station Assessment; Ottumwa, IL--Engineer responsible for hydraulic modeling and analysis of transmission main improvements and report development.

MICHAEL COLBY, EIT

Elevated Storage & Pump Station

3 Years of Experience

Education

Bachelor of Science, Iowa State University, Civil Engineering

Professional Registration

Engineer-in-Training: Illinois

Professional Affiliations

Young Adult Professional in Illinois Section of American Waterworks Association (AWWA)

Specialized Training

Innovyze InfoWater and InfoSurge Water Distribution Modeling, May 2018

Michael's professional experience includes both water and wastewater projects. Michael has been a part of project teams including a wastewater treatment plant corrections design, a water system study, water rate studies and audits, water supply design and construction management and chemical feed design.

PROJECT EXPERIENCE

Detailed Water Supply Corridor and Route Study, Design, and Construction Management; Morton Grove-Niles Water Commission; Morton Grove & Niles, IL--Environmental Engineer responsible for coordinating project funding applications with IEPA and WIFIA, assisting with analyzing various transmission main corridors, permitting, and compiling various reports.

Wastewater Treatment Plant Corrections; Village of Itasca; Itasca, IL--Environmental Engineer who assisted the lead process engineer with the design of several components of the WWTP, including sludge dewatering, chemical feed, and UV disinfection. Responsibilities also included review of contractor submittals, responding to contractor RFIs, and engineering redesign due to unforeseen field conditions during construction.

Wastewater Improvements Study; City of Rock Falls; Rock Falls, IL--Proposal Manager responsible for the design of approximately 4,500 feet of 12-inch water main extension, 1,800 feet of 6-inch sewer force main, and a duplex submersible pump station.

Water Supply Construction Engineering and Oversight, Morton Grove-Niles Water Commission; Morton Grove & Niles, IL--Environmental Engineer responsible for construction observation and engineering design during construction, including contractor submittal review, RFI review and response, and modifying the design to account for field conditions discovered during construction of two 12.7 mgd pump stations and one 7.0 million-gallon standpipe. Michael also has maintained a positive relationship with IEPA and managed the monthly disbursement of the client's $75M SRF loan.

Water Treatment Plant #5 Improvements; City of Crystal Lake; Crystal Lake, IL--Environmental Engineer responsible for included design of replacement of existing coated steel iron filter unit; rehab of the internal distribution system of existing water softening unit; installation of VFDs to improve well pump operation; and rehabilitation of the existing water storage tank.

Wastewater Municipal Incorporation Design; Baxter Health Care; Round Lake, IL--Environmental Engineer responsible for the design and specifications of a duplex submersible wastewater pumping station, force main, and sewer main.

ED SLATTERY, PE

Elevated Storage & Pump Station

39 Years of Experience

Education

Master of Science, University of Iowa, Environmental Engineering

Bachelor of Science, University of Iowa, Engineering

Professional Registration

Registered Professional Engineer: Iowa

Certified Wetland Delineation, USA

Professional Affiliations

American Water Works Association

Ed has a broad background in environmental science and engineering. He has conducted environmental impact assessments of water resources projects, water supply studies, wetland creation design, and wastewater management projects including environmental impact reports and several Phase I Environmental Site Assessments. Ed's technical expertise comes from completing numerous utility evaluations and inventory of existing water supply facilities including primary responsibility for the computer-assisted analysis of water distribution systems.

PROJECT EXPERIENCE

88th Street Elevated Water Storage Tank Alternatives Analysis, West Des Moines Water Works, West Des Moines, IA--Project Manager responsible for a study to evaluate a number of alternatives for incorporating an existing elevated tank more fully into the operation of the western portion of the West Des Moines Water Works distribution system. Due to insufficient tank height, a full hydraulic evaluation of the distribution system was performed using WaterCad software. It was determined the most cost effective approach was to construct a booster pump station to take suction from the existing tower and boost the pressure into the distribution to the level desired.

Federal Elevated Water Storage Tank Design, City of Mason City, Mason City, IA--Project Manager responsible for the design and construction of a 1.0 MG composite elevated water storage tank.

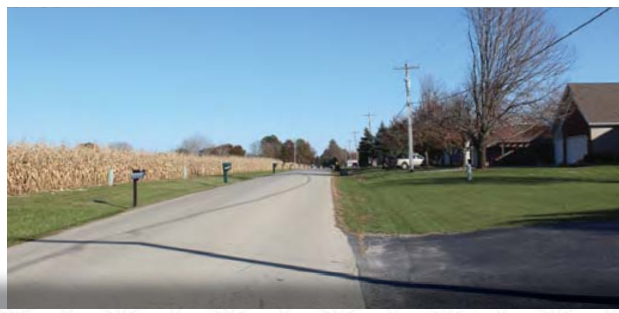
Airport Pump Station Upgrade, Ottumwa Water & Hydro, Ottumwa, IA--Project Manager responsible for design of an upgrade to an existing potable water booster pumping station. Specific tasks included developing design drawings and specifications for the installation of two new booster pumps, developing an estimated construction cost and performing bidding activities.

3 Million Gallon Avery Ranch Elevated Water Tank; City of Austin, TX--Project Manager and Lead Civil Engineer responsible for design and technical input during construction of a 3 MG composite elevated tank. Work included close coordination with City, leading to the development of plans and specifications and providing technical input during the bidding and construction phases. Construction services included periodic site visits, attending progress meetings and shop drawing review.

2 Million Gallon Elevated Water Tank; Des Moines Water Works, IA--Project Manager and Lead Civil Engineer responsible for design and construction services for this 2 MG composite elevated tank.

1 Million Gallon Elevated Water Tank; City of Ames, IA--Project Manager and Lead Civil Engineer responsible for design and permitting of water main, 1 MG fluted column elevated tank and high service pump station facilities.

Stanley Consultants INC.
www.stanleyconsultants.com
225 Iowa Avenue
Muscatine, IA 52761
563.264.6600



WILLETT HOFMANN
& ASSOCIATES INC

ENGINEERING

- Water & Wastewater
- Structural
- Transportation
- Civil Site Design

ARCHITECTURE

LAND SURVEYING

STATEMENT OF QUALIFICATIONS

FOR

VILLAGE OF COAL VALLEY, IL

NEW ELEVATED WATER STORAGE TANK AND WATERMAIN EXTENSION ON NIABI ZOO ROAD, OAKWOOD CIRCLE AND E. 3RD AVENUE

COAL VALLEY, ILLINOIS 1856

WILLETT HOFMANN
& ASSOCIATES INC

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Founded 1935

Willett, Hofmann & Associates, Inc. is dedicated to serve our clients Ethically, Responsively, and Professionally with highly trained and skilled staff.

WILLETT HOFMANN
& ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING

October 21, 2019

Village of Coal Valley
Attn: Annette Ernst, Village Administrator
900 1st Street
P.O. Box 105
Coal Valley, IL 61240

RE Statement of Qualifications
Water System Improvements
New Elevated Water Storage Tank and Water Main Extension
On Niabi Zoo Road, Oakwood Circle and E. 3rd Avenue

Dear Ms. Annette Ernst:

Willett, Hofmann & Associates, Inc. is pleased to submit the following Statement of Qualifications (SOQ) for your review and consideration in the selection of Professional Engineering Services for the water system improvements project.

Willett, Hofmann & Associates, Inc. is a multi-disciplinary professional organization, founded in 1935, that is licensed to provide structural engineering, transportation engineering, water and wastewater engineering, professional land surveying services, and architectural services.

Within this SOQ, you will find information about our organization, project team members, and similar projects completed by our water and wastewater staff. Our SOQ should give the Village confidence in our firm's qualifications to perform the design engineering services associated with this project.

If you need any further information or have any questions, please do not hesitate to contact me.

Thank you for this opportunity to be of service.

Sincerely,

WILLETT, HOFMANN & ASSOCIATES, INC.

By _____
Matt Hansen, P.E.
Water and Wastewater Department Manager

MH:dt
Encl.
cc: file

COMPANY PROFILE

With a history that dates back to 1935, Willett, Hofmann & Associates, Inc. (WHA) is a professional, award winning, multi-discipline organization, unique in both its capabilities and credibility, licensed to provide professional civil engineering, structural engineering, architectural design, and professional land surveying services. WHA has been providing professional design and land surveying services to municipalities, townships, counties, state agencies and private enterprises since our inception. We have a talented and diversified staff of more than 50 full-time employees who are experienced and qualified to provide an extensive range of professional services, including structural engineering, transportation engineering, water & wastewater engineering, civil site design, architectural design, land surveying services, and construction staking, observation and administration services.

Because WHA is owned solely by licensed professionals on staff, our clients frequently enjoy the benefits of working directly with an owner of the company. We are dedicated to serve our clients Ethically, Responsively and Professionally with highly trained and skilled staff – an organizational philosophy that has fostered numerous long-standing clients, some of whom we have been serving since 1935.

Willett, Hofmann & Associates, Inc. is poised, capable and qualified to provide our clients a single source for a wide variety of professional design and land surveying services.

PROFESSIONAL STAFF:

20 Licensed Professional Engineers
(IL, WI, AL, IA, MO, AR, LA, MS, OK, TX, IN, TN)
4 Licensed Structural Engineers (IL)
2 Licensed Professional Land Surveyors
(IL, WI)
2 Licensed Architects (IL, WI, IA)
2 Leadership in Energy and Environmental Design Accredited Professionals (LEED AP $^{BD+C}$)
2 Licensed Class A Water Operators (IL)
1 Licensed Class I Wastewater Operator (IL)
3 Certified Bridge Program Managers (IL, WI, IA)
7 Certified Bridge Team Leaders (IL, WI, IA)
1 Certified Professional Traffic Operations Engineer (PTOE)

OFFICE LOCATIONS:

809 E. 2nd Street
Dixon, IL 61021
815-284-3381

1515 Fifth Ave., Suite 102
Moline, IL 61265
309-517-1119

10 N. Galena, Ave., Suite 150
Freeport, IL 61032
815-232-3506

57 Airport Drive
Rockford, IL 61109
815-964-2897

1000 Essington Road
Joliet, IL 60435
815-729-2229

212 Third Ave.
Sterling, IL 61081
815-626-3861

ENGINEERING – Water & Wastewater

The Willett, Hofmann & Associates, Inc. Water & Wastewater Engineering Department provides professional engineering services for the design of potable water systems and wastewater collection and treatment systems for projects of various sizes and complexities. The WHA staff is experienced in guiding the client through all three (3) phases of a project: Planning/Funding, Design and Construction.

In the Planning/Funding Phase, the WHA staff will evaluate the client's problem, develop a cost-effective solution and recommend funding options for the project. The WHA staff works regularly with the IEPA Public Water Supply and Water Pollution Control Revolving Fund Loan programs, USDA Rural Development Water & Waste Disposal program and Department of Commerce & Economic Opportunity Community Development Block Grant program to obtain grants and low interest rate loan financing for our clients.

In the Design Phase, our engineers work closely with the client to develop a design solution that meets all their project goals. The design solution will strive to address the cost effectiveness and ease of operation and maintenance for each project.

In the Construction Phase our engineers will assist the client in the bidding and award of the project and provide construction administration. Our field technicians are experienced in observing the construction activities and working with the contractors to achieve a quality construction project that is completed on time.

WATER ENGINEERING SERVICES:

Wells and Well Pumps

Ground Level and Elevated Water Storage Tanks

Well Buildings, Water Distribution Systems

Water Treatment Facilities

Water System Controls (SCADA)

Fire Flow Analysis

Water System Flow Networking Analysis

Water System Comprehensive Planning

Water Distribution System Mapping

Project Planning Reports for IEPA Revolving Fund Loan Projects

Water Rate Study Reports

Operation and Maintenance Manuals

Grant Applications and Administration

Construction Engineering

WASTEWATER ENGINEERING SERVICES:

Wastewater Treatment Plants

Lift Station and Force Mains

Sanitary Sewer Systems

Sanitary Sewer Rehabilitation

Septic Systems

Project Planning Reports for IEPA Revolving Fund Loan Projects

Sewer Rate Study Reports

Infiltration and Inflow Analysis

Sludge Management Plans

National Pollutant Discharge Elimination System (NPDES) Permits

Sanitary Sewer System Mapping

Operation and Maintenance Manuals

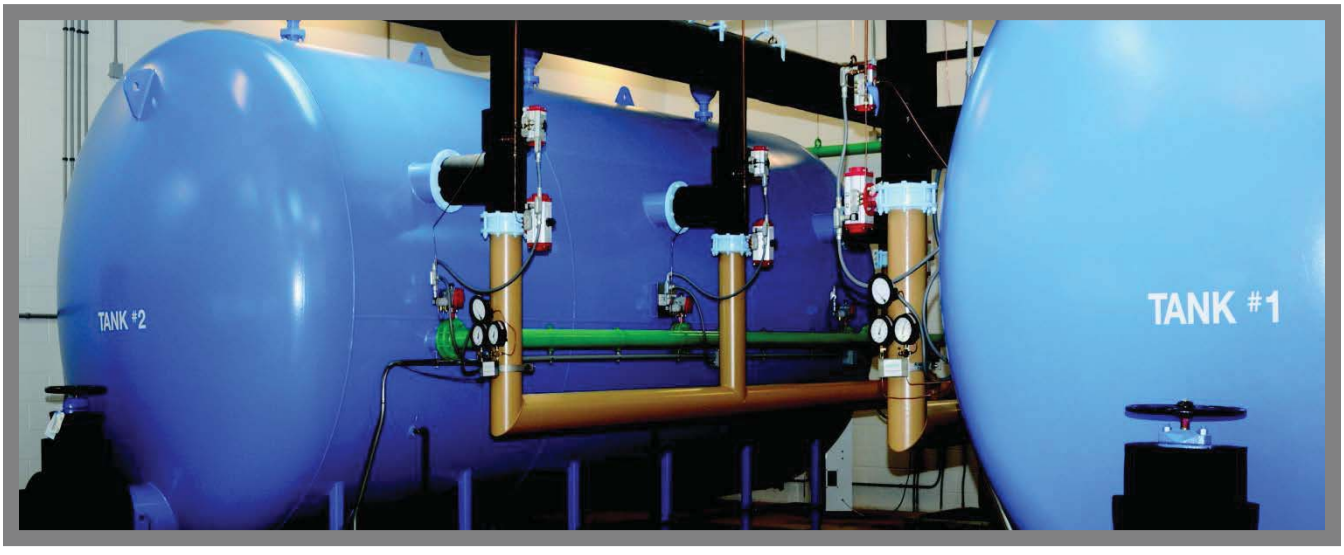
Wastewater System Comprehensive Planning

Wastewater System Controls (SCADA)

Grant Applications and Administration

Construction Engineering

ENGINEERING – Water/Wastewater



ENGINEERING – Structural

With four licensed Structural Engineers on staff, and the support of an experienced technical staff, Willett, Hofmann & Associates, Inc. (WHA) Structural Engineering Department can provide structural engineering services for projects of any size and complexity. WHA provides structural engineering services for new construction, rehabilitation and restoration of highway and railroad bridges; new construction, renovation and additions for building structural systems; existing structure evaluation reports and load rating analyses for both bridges and buildings; and construction engineering for projects of various sizes and complexities.

WHA's bridge structure engineering capabilities and experience encompass all phases of bridge design - preliminary studies, hydraulic studies, and plans and specifications for a variety of bridge types. Our structural engineering staff excels in the design of cofferdams, formwork, erection plans and demolition plans. Our building structure engineering capabilities include foundation systems, wall systems, floor systems, roof systems and equipment support structures for a variety of building types and complexities.

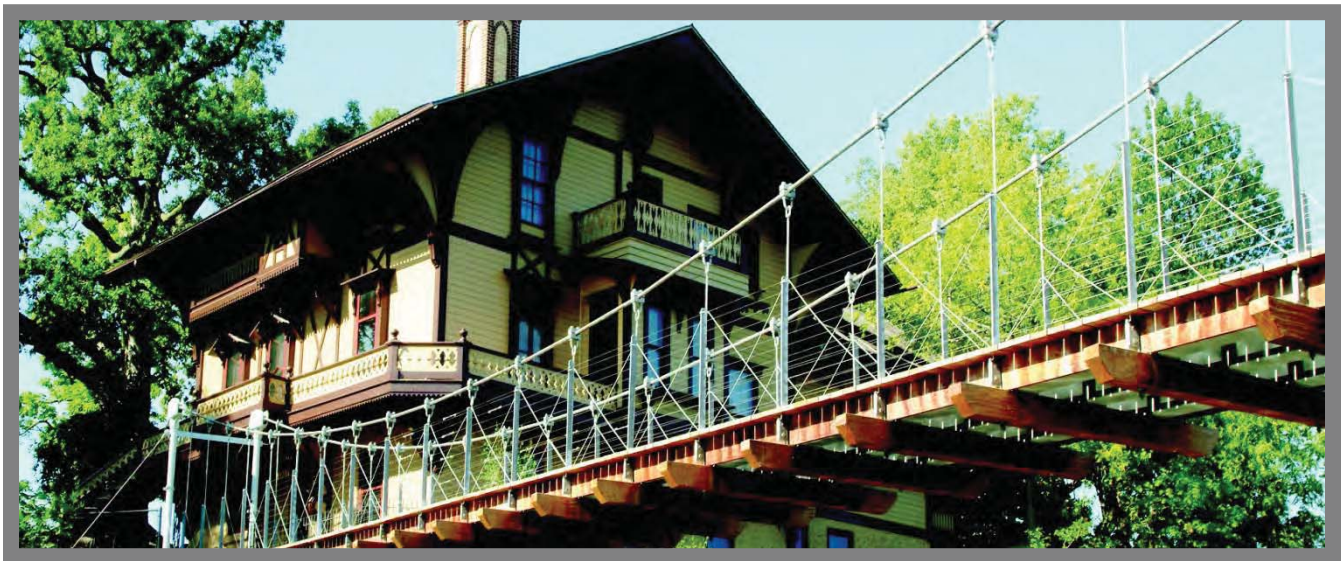
Our long association with the Illinois Department of Transportation (IDOT) and other agencies expedites the review and approval process required for highway bridge projects under their jurisdiction. Our staff includes certified Bridge Program Managers and Team Leaders who have been judged by IDOT to be qualified to ensure that bridges are inspected as described in the National Bridge Inspection Standards of the Code of Federal Regulations.

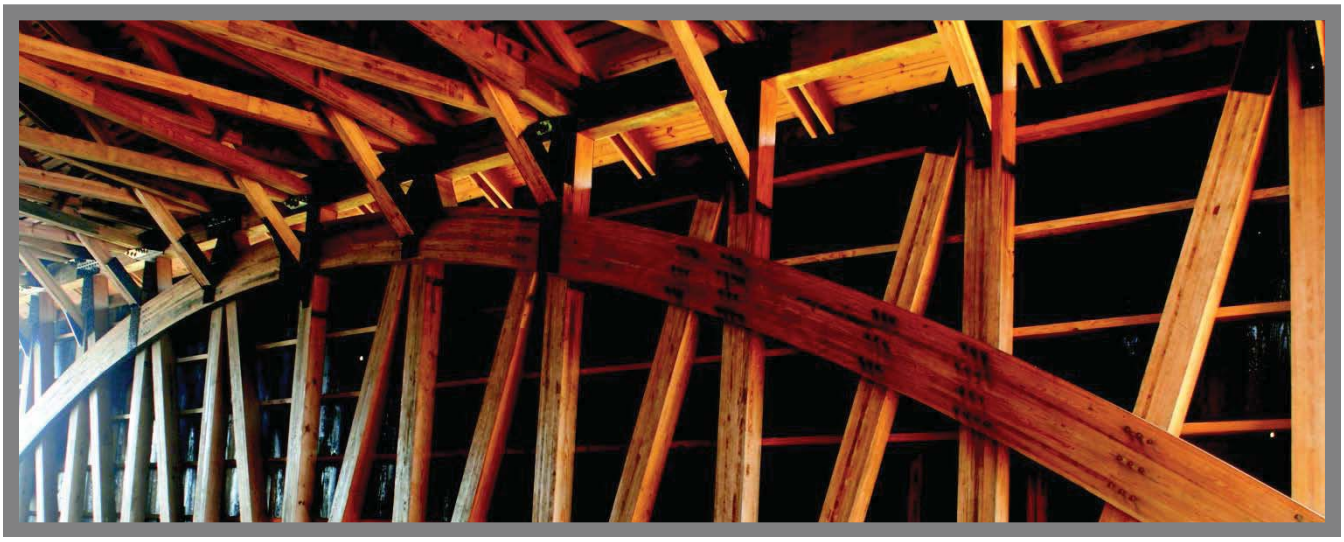
Continuing education keeps us current with developing technologies and design codes to better serve our clients. Our Structural Staff is equipped with Building Information Modeling (BIM) software and is experienced in the design of a variety of structural materials and types of building structural systems. With a continuing commitment to both personnel and technology, Willett, Hofmann & Associates, Inc. is qualified for structural projects of any complexity.

STRUCTURAL ENGINEERING SERVICES:

Bridge Design
Bridge Ratings
Bridge Rehabilitation
Bridge Inspection
Bridge Construction Systems Design
Hydraulic Reports
Building Design
Building Evaluation
Foundations
Concrete Slabs-on-Grade
Concrete Structures (Cast-in-Place and Precast)
Water & Wastewater Structures
Agricultural Structures
Structural Steel Systems
Timber Structures
Roof Framing
Retaining Walls
Existing Structure Evaluation
Construction Engineering

ENGINEERING – Structural





ENGINEERING – Transportation

The Willett, Hofmann & Associates, Inc. Transportation Engineering Department provides engineering services for design, construction, and maintenance of streets and alleys, rural and major highways, recreational paths, traffic signals, and street lighting, as well as intersection design studies, storm sewer analysis, and storm water management facilities for projects of various sizes and complexities.

The WHA Transportation Engineering Department has a knowledgeable and experienced staff of engineers, technicians and construction inspectors. Our experience includes planning, preparing and executing maintenance programs for municipal and governmental clients to preserve their existing streets and highways. We also have a vast project history designing major reconstruction and new construction projects. We understand federal, state, and local design standards and permitting requirements and are experienced in working with various forms of project funding including Motor Fuel Tax Projects and Federal Aid Projects.

A key component to the competence of our staff is the cross over training in both design and construction. All staff members spend a portion of their time each year performing construction inspection, observation, and documentation as well as project design. Being well versed in construction operations and policies helps make for better, constructible designs. Our design experience also allows the staff to be proactive in heading off any potential construction issues.
Continuing education advances our design and construction experiences. Keeping up with current and developing technologies allows for seamless coordination with jurisdictional agencies and better service for our clients. Our staff continually assesses the various available software programs and building materials, along with design and construction technologies to provide efficient project development and completion. Willett, Hofmann & Associates, Inc. is qualified for transportation projects of any complexity.

TRANSPORTATION ENGINEERING SERVICES:

Roads, Streets & Highways
Parking Lots
Intersection Design Studies
Traffic Capacity Analysis
Traffic Signals
Roadway & Pavement Maintenance
Street Lighting
Recreational Paths
Boat Ramps & Docks
Storm Water Management
Drainage Studies
Detention Basins
Administration of Motor Fuel Tax Funds (MFT)
Administration of Federal Aid Projects
Construction Engineering

ENGINEERING – Civil Site Design

Willett, Hofmann & Associates, Inc. Civil Site Engineering Staff is experienced in and capable of providing Professional Engineering Services for both private and public residential, commercial, industrial, and governmental developments. We can provide services which could include design, permitting, and construction staking and observation of sites ranging from a single lot, to multiple-lots. Our staff is experienced in the design of storm water management and detention facilities, site grading, parking lots, roadways, entrances, storm and sanitary sewers, and water distribution for fire protection and domestic use. The WHA staff works closely with our in-house Land Surveying Department Staff and state and local agencies having jurisdiction over developments throughout the design process to ensure their design and platting standards are met. WHA provides layout and engineering services during the construction phase of the project.

Our continued investment in staff training and state of the art software with our experience and diverse knowledge base produces successful, cost effective, constructible designs which enhance the surrounding area.

CIVIL SITE ENGINEERING SERVICES:

Boundary and Topographic Surveys
Feasibility Studies
Site Investigation
Concept Plans
Regulatory Review Coordination
Preliminary and Final Plats
Grading and Drainage
Storm Water Management
Erosion Control Plans
Storm Water Pollution Prevention Plans
Hydrologic and Hydraulic Studies
Floodplain Studies
Roadway and Parking Lot Infrastructure
Utility Infrastructure
Utility Services and Coordination
Construction Staking
Construction Engineering

ARCHITECTURE

The Willett, Hofmann & Associates, Inc. Architectural Department is qualified to provide a broad range of building design services for a wide variety of project types and complexities. The complexity of building design and remodeling projects in today's building construction environment often requires a diverse team of professionals to address all of the regulatory, site and code-related requirements for a project, in addition to creating a functional, efficient and aesthetically pleasing building. Our architectural staff routinely collaborates with both our in-house engineers and specialized outside consultants, serving as a valuable single-source, comprehensive contact for our clients' projects.

WHA's Architectural Department strives to develop encompassing and creative solutions in consideration client wants, needs, goals and budget while being sensitive to the project site, context and environment. Our architectural staff is experienced in, and qualified to provide, Pre-Design services, including Feasibility Studies, Building Assessment Studies and Project Programming; Project Design Services, including Bid, Contract and Construction Documents and Construction Phase Services for projects ranging from large industrial facilities to small sensitive building additions and renovations to building maintenance projects for both public and private clientele. Our Architectural Department staff is equipped with Building Information Modeling (BIM) software, 3D design and rendering software and 2D CAD software and includes Leadership in Energy and Environmental Design Accredited Professionals (LEED AP $^{BD+C}$) through the United States Green Building Council.

ARCHITECTURE SERVICES:

New Construction & Additions
Renovation, Remodeling, Restoration
Accessibility Improvements
Adaptive Reuse
Feasibility Analysis & Planning Services
Municipal Facilities
Commercial Facilities
Industrial Facilities
Public Facilities
Religious Facilities
Special Structures

LAND SURVEYING

Land Surveying is fundamental in Willett, Hofmann & Associates, Inc.'s history. WHA has maintained an archive spanning over 75 years of survey records. Our survey crews are well trained and equipped with state-of-the-art equipment for all surveying projects, including survey-grade GPS (Global Positioning System) receivers, robotic total stations, electronic total stations with digital data collectors and digital levels. Vital information and measurements can be downloaded to computer drafting stations, kick starting the generation of necessary plats or maps to get the project underway.

The Willett, Hofmann & Associates, Inc. Land Surveying Department provides ALTA/ACSM surveys, boundary and property surveys, topographic and route surveys, platting and development surveys as well as construction staking services for projects of all sized and complexities. Our Land Surveying Department is uniquely equipped and qualified to perform bathymetric surveys. Using echo-sounder technology, we can collect accurate underwater data to produce topographic surveys of the bottom of rivers, lakes, ponds and other bodies of water.

WHA's expertise in residential, commercial and industrial subdivision layout melds the talent and resources from our Engineering and Surveying Department. Synchronization between the disciplines leads to lots that are laid out for land-use efficiency, but with care taken to ensure the property remains attractive to potential buyers.

LAND SURVEYING SERVICES:

ALTA/ACSM Survey
Property Survey
Wind Farm Surveys
Route Survey
Topographic Survey
Condominium Plat
Construction Staking
Commercial Development
Industrial Development
Legal Descriptions
Subdivision Development
Planned Unit Development
Right-of-Way Plat
Flood Elevation Certificates
Easement Surveys
FEMA Interpretation and Delineation
Letter of Map Amendment (LOMA)
Underwater Sonar Mapping (Bathymetric Surveys)
GIS Data Collection
GIS Mapping
3D Scanning
Control Survey (Position & Elevation)

FUNDING

Willett, Hofmann & Associates, Inc. staff has extensive grant and loan procurement and administrative experience and has formed many strategic partnerships with economic development and public funding consultants, that have resulted in funding awards in the multi-millions of dollars for our clients' projects.

Our staff is experienced in preparing applications for, and administering awards of, State and Federal Grants for Economic Development, Illinois Environmental Protection Agency low-interest loans, Department of Commerce and Economic Opportunity (DCEO), Community Development Block Grant (CDBG) Program United States Department of Agriculture – Rural Development Grant and Loans and Illinois Department of Natural Resources Parks & Recreation Grants, as well as conducting funding searches from other sources.

FUNDING SERVICES:

Analysis of Funding Sources
Grant Applications
Grant Administration
Funding Searches
Low-Interest Revolving Loan Applications
Loan Administration

STAFFING

Classification	Name	Years	PE	SE	PLS	LA	EMAILS
DIXON OFFICE							
President & General Manager	Brian K. Converse, PE, SE	31	✓	✓			bconverse@willetthofmann.com
LAND SURVEYING							
PLS Manager	Jeffrey B. Rohde, PLS	16			✓		jrohde@willetthofmann.com
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Survey Worker Foreman	Matthew H. Null	20					mnull@willetthofmann.com
Survey Worker	Reymundo O. Munoz	34					rmunoz@willetthofmann.com
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TRANSPORTATION							
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Technician IV	Daniel L. Blum	18					dblum@willetthofmann.com
Technician IV	Brent Hasenauer	33					bhasenauer@willetthofmann.com
STRUCTURAL							
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Civil Engineering Intern I	Praaveenyan Vangara, EI	2	EI				pvangara@willetthofmann.com
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Technician III	Ronald D. Allen	20					rallen@willetthofmann.com
ARCHITECTURE							
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WATER / WASTEWATER							
Principal Engineering Manager	G. Matthew Hansen, PE	28	✓				mhansen@willetthofmann.com
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Civil Engineer III	Michael P. Long, PE	7	✓				mlong@willetthofmann.com
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Technician IV	Larry D. Griffiths	39					lgriffiths@willetthofmann.com
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ROCKFORD OFFICE							
Principal Engineering Manager	Corey J. Buck, PE	26	✓				cbuck@willetthofmann.com
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STERLING OFFICE							
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JOLIET OFFICE							
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Civil Engineer III	Joshua S. Harris, PE, PTOE	12	✓				jharris@willetthofmann.com
Technician IV	Brett R. Loeffler	25					bloeffler@willetthofmann.com
MOLINE OFFICE							
Principal Engineering Manager	Michael R. Leslie, PE, SE	28	✓	✓			mleslie@willetthofmann.com
Civil Engineer III	Michael C. Wagner, PE	11	✓				mcwagner@willetthofmann.com
Civil Engineering Intern II	Jordan K. Primus, EI	3	EI				jprimus@willetthofmann.com
Civil Engineering Intern I	Adam T. Kueny, EI	2	EI				akueny@willetthofmann.com
Technician IV	D. Anthony Newbury	33					dnewbury@willetthofmann.com

9/16/2019

EXPERIENCE AND QUALIFICATIONS

WHA Experience

WHA was founded in 1935 and has been providing civil engineering, land surveying and architectural services to our public sector clients in northwest Illinois including the Will County area near Joliet, Illinois. Our corporate office is in Dixon, IL however, we also have an office in Moline, IL that provides engineering services to our public sector clients in the Quad Cities area. WHA has provided engineering services locally for Rock Island County, Mercer County, and Henry County. Our municipal clients along the Mississippi River include the City of Fulton, and the Village of Thomson, and we serve numerous others in Northwest Illinois and Will County. WHA does not have any past experience working in the Village of Coal Valley but we have a lot of experience working with communities the size of Coal Valley and with communities with similar water system infrastructure.

WHA has extensive experience in the design and construction of municipal water system infrastructure that includes water supply wells, water storage facilities, water treatment plants, booster pump stations and water distribution systems. The scope of work described in the Request for Proposal includes the design of a 12" diameter water main on E. 3rd Avenue, Niabi Zoo Road, and Oakwood Circle to Well #4; construction of a new elevated water storage tank; upgrading the well pump capacity at Well #4; installation of a pressure reducing valve on Niabi Zoo Road to connect two (2) pressure zones and installation of a booster pump station to provide a secondary water source for the Well #4 pressure zone. The Similar Projects included in our SOQ show our extensive experience in the water system improvements detailed in the Request for Proposal.

Design Approach

Our design approach for each component of the water system improvement project is detailed below. WHA staff will prepare a preliminary design for water system improvements which will include the recommended layout and size for each facility and review the preliminary design with the Village to get their input and approval of the design.

1. **Water Main Design**
   WHA will verify that the proposed 12" diameter water main will provide the desired water distribution pressure and fire flow capacity. WHA will review the most recent Insurance Service Office (ISO) report to determine what the fire flow requirements are for the Village. The ISO fire flow requirements will impact the sizing of the water main and elevated water storage tank. WHA also has the capability to perform a complete water distribution hydraulic model to analyze the Village's water distribution system.

The wells water storage facilities and water distribution main sizes and locations are entered into the water distribution hydraulic model software. Simulations are run until the software model output matches the existing fire hydrant flow test performed in the field throughout the water distribution system. Once the software model has been calibrated, it can be used to determine how much flow can be obtained throughout the water distribution system and what the static and residual pressures are under those flow conditions. Also, water main segments in the distribution system can be increased in size in the model to determine how much the flow and pressure in the distribution system increases.

2. Elevated Water Storage Tank

WHA will provide the Village with a properly size elevated water storage tank at the Well #4 site, that will be based on current and future water system demands, and the fire flow requirements of the community based on the ISO report. WHA will include in the analysis the capacity of the existing elevated water storage tanks when designing the capacity of the new elevated water storage tank. In order to provide proper turnover in the new elevated water storage tank, the Village may want to consider installing a separate fill and draw line on the tank or possibly install a small mixer in the tank to make sure that fresh water mixes with the water in the tank to maintain adequate chlorine residuals.

3. Well #4 Pump

The Well #4 pump will be sized based on current and future water system demands for the Well #4 service area. WHA will also verify that the well capacity of the water system is capable of pumping the peak daily demand with the largest well out of service to meet the IEPA's minimum requirements. WHA will review the past water system pumping data and the other well capacities to make sure the Well #4 pump is properly sized. WHA will also review past well test pumping data to verify the specific capacity of the well so the well pump setting can be determined at the higher pumping rate.

4. Booster Pump Station and Pressure Reducing Valve

The Request for Proposal indicated that the pressure reducing valve would be located near 12020 Niabi Zoo Road to connect the two (2) pressure zones. Depending on the fire flow requirements for the water system, typically two (2) different sized pressure reducing valves are required to handle the lower domestic flow demands and the higher fire flow demands. Based on the current water distribution main system layout, the booster pump station will most likely be located where the pressure reducing valves will be located and may be installed in a single above grade structure for ease of operation. The booster pump station will be designed as the backup water supply for Well #4. When the booster pumps are operating, the pressure reducing valves will be closed so water can be supplied to the Well #4 pressure zone. The booster pump and pressure reducing valve operation will need to be incorporated into the water system controls.

5. Permits

WHA staff is experienced in obtaining the necessary permits from the IEPA Public Water Supply, Illinois Historic Preservation Agency, the Illinois Department of Natural Resources and any other agencies that would have jurisdiction related to the project. WHA's experience working with the Rock Island County Highway Department should make obtaining the utility permit from the County a seamless process.

Project Funding

WHA utilizes the IEPA Public Water Supply Revolving Fund Loan (PWSRFL) program on a regular basis to provide a funding source for our public-sector clients for their water system improvement needs. WHA has worked on numerous IEPA PWSRFL projects and as a result have worked with most of the Agency's staff.

A list of all the projects WHA has obtained funding through the IEPA PWSRFL program over the last seven (7) years is summarized in the table below, although we have been working with the IEPA PWSRFL program since it began in the 1980's.

WHA has also submitted Project Plan reports to the IEPA that are currently under review for water system improvements in the City of Morrison, City of Dixon, City of Prophetstown, Village of Milledgeville and Village of Manlius.

IEPA Public Water Supply Revolving Fund Loan Program
WHA Project List

Municipality	County	Project Description	Project Cost	Year
Oregon	Ogle	Watermain Replacement Phase 1	$1,665,000	2019
Stillman Valley	Ogle	Grant Street Watermain Replacement	$452,000	2019
Rochelle	Ogle	Radium Removal Water Treatment Plant for Well #12	$2,601,000	2019
Rochelle	Ogle	Radium Removal Water Treatment Plant for Well #11	$2,832,000	2017
Oregon	Ogle	Well #2, #3 and #4 Well Building Replacement and Ground Level Storage Tank Painting	$2,309,000	2017
Rock Falls	Whiteside	New Well #7 and Connecting Water Main	$430,000	2016
Ashton	Lee	West Side Water Transmission Main and Elevated Water Storage Tank Painting	$425,000	2012
Fulton	Whiteside	New Well #5, Water Treatment Plant for Well #4 and #5 and Dedicated Water Main	$3,182,000	2012

EXPERIENCE AND QUALIFICATIONS

If the Village needs to pursue project funding, WHA can prepare the IEPA Project Plan Report and planning documents so the Village can become eligible for an IEPA PWSRF loan for this water system project. The Base Interest Rate for the FY2020 program is 2.0%. Communities can qualify for a reduced interest rate and principal forgiveness in the amount of 60% of the loan up to a maximum amount of $800,000, depending on a community's median household income, unemployment rate and monthly water bill of an average residential user. The interest rate and principal forgiveness terms of the IEPA loan program change every July 1st.

ROCHELLE WATER SYSTEM IMPROVEMENTS WELL #12 WELL BUILDING, WELL PUMP AND ELEVATED WATER STORAGE TANK

Location: City of Rochelle, Illinois
Client: City of Rochelle, Illinois
Construction Cost: $3,526,000
Phase II & III Services

The water system improvements addressed water supply capacity, water system reliability and give the City the ability to provide water service to some high ground southeast of the City which couldn't be served by the water system pressure. The City of Rochelle has two (2) industrial water users that consume approximately 1,377,000 gallons of water per day or approximately 60% of the total billed volume. Both industries are located in the southeast part of the City and place a large demand on the water system. One of the industrial users was located at the end of the City's water distribution system.

The new Well #12 is located south of the existing water distribution system and will create a second pressure zone in the City's water distribution system. The project included the construction of a 970-foot-deep Iron-Galesville sandstone well, a 1,300 gpm submersible pump with pitless adapter, a well building to house the chemical feed equipment, pressure reducing valves, a small laboratory for water quality testing and a 750,000-gallon elevated water storage tank. The elevated water storage tank was constructed approximately 70 feet higher than the existing elevated water storage tanks to create the second pressure zone. The new pressure zone will be connected to the existing water system by a pressure reducing valve so the water from Well #12 and the elevated water storage tank can be fed into the existing water distribution system. Well #12 will have a standby generator as a secondary power source so water can be produced at all times.

Scope of Work:
Water Rate Study Report, Topographical Survey, ROW Survey Plat, Well Design, Well Pump Design Well Building Design and Elevated Water Storage Tank Design, IEPA Construction Permit Acquisition Construction Staking, Construction Observation, Project Management

Project Schedule: Completed - 2017

WHA Team: Matt Hansen, P.E., Mike Long, P.E., Larry Griffiths

FULTON WATER SYSTEM IMPROVEMENTS
WELL #4 WATER TREATMENT PLANT
AND WELL #5

Location: City of Fulton, Illinois
Client: City of Fulton
Construction Cost: $3,181,857
Phase I, II & III Services

WATER TREATMENT PLANT BUILDING

The water system improvements addressed water supply capacity, water quality and water system reliability. The planning for the water system improvements began with the preparation of an Illinois Environmental Protection Agency Public Water Supply Project Plan Report. The Report was used to qualify the City for a low interest loan to fund the project. The Project Plan Report detailed the need to replace the water treatment plant filter and building at Well #4 and construct a new Well #5 so the City can eventually abandon Well #2, which has hydrogen sulfide odor issues. Well #4 is a shallow sand and gravel well that is high in iron and manganese. Well #5 was constructed on the same site as Well #4 but was constructed to a depth of 1,945 feet and is a sandstone well. Well #5 was constructed on the existing Well #4 site so the City could utilize the new filter if water treatment was required. Well #4 and #5 were connected to the water system by constructing a 12" diameter dedicated watermain on 11th Street, 16th Avenue and 9th Street to connect to the existing dedicated watermain which connects Well #2 and #3 to the elevated water storage tank.

Well #4 water treatment plant includes a 1,200 gallon per minute pressure filter for the reduction of iron and manganese in Well #4 and the combined radium from Well #5, pre-filter chemical feed equipment for the addition of chlorine to oxidize the iron and manganese in the raw water and hydrous manganese oxide (HMO) for the removal of the combined radium, post-filter chemical feed equipment for the addition of chlorine, fluoride and phosphate, pressure reducing valves to connect to the existing watermain on 11th Street, a blower for backwashing the filter, a compressor for the opening and closing the actuator valves on the filter, a filter control panel, a water system control panel and a lab area to run daily water quality testing. The water treatment plant also has a diesel powered generator that will provide emergency power if the City loses primary power from their utility provider.

FULTON WATER SYSTEM IMPROVEMENTS
WELL #4 WATER TREATMENT PLANT
AND WELL #5

Location: City of Fulton, Illinois
Client: City of Fulton
Construction Cost: $3,181,857
Phase I, II & III Services

The water treatment plant produces EPA compliant drinking water from both Well #4 and #5, increases water system capacity by 1,200 gpm to provide adequate capacity for growth and fire protection, provides a PLC based system for the filter controls and new water system controls for the entire system which uses radio communications to eliminate the cost of the expensive phone line communications. Lastly, Well #4 and #5 and the water treatment plant have a diesel generator to provide a backup power source for the entire facility. The City now has the ability to continuously provide treated water to its customers during extended power outage periods. The City obtained an IEPA Revolving Fund Loan to fund the project.

WATER FILTER TREATMENT

GENERATOR

Scope of Work:
IEPA RFL Project Plan, IEPA RFL Loan Application, Topo Survey
Water Treatment Plant Design
Well Design, Watermain Design
IEPA Construction Permit Acquisition
Construction Staking, Construction Observation
Project Management

Project Schedule:
Completed - 2013

WHA Team
Matt Hansen, P.E.
Dan Loos, P.E.
Larry Griffiths

VILLAGE OF ASHTON - WATER TRANSMISSION MAIN EXTENSION AND WATER TOWER PAINTING

Location: Ashton, Illinois
Client: Village of Ashton
Construction Cost: $460,000
Phase I, II & III Services

WHA was the lead engineering firm for the planning, design and construction phases of a new 10" diameter water transmission main extension and the painting of their elevated water storage tank. The Village had problems with low water pressure during high water demands on the west side of their water distribution system. The water had to go through smaller 4" diameter and 6" diameter water mains to serve customers on the west side of the Village's water system. WHA designed 3,900 feet of 10" diameter water transmission main around the north and west sides for the Village to back feed the existing 4" diameter and 6" diameter water mains which increased the water flow and residual pressure in the west side of the water distribution system.

The Village's elevated water storage tank was constructed in 1986 and had not been painted since it was constructed. The interior dry and wet areas were blasted to bare metal and a new paint system applied. The exterior of the tank was power washed and the failed paint areas blasted or hand tooled, primed and a two-coat paint system applied.

WHA prepared a Project Plan Report and loan application documents so the Village could obtain funding for the project through the IEPA Public Water Supply Revolving Fund Loan program. WHA also prepared a Water Rate Study to demonstration the Village had the financial capability to repay the IEPA loan and increased their water system budget and water rates so the Village would generate enough revenue annually to pay for next water tower painting in 20 – 25 years.

Scope of Work:

Preparation of IEPA Project Plan Report, IEPA Loan Application Documents and a Water Rate Study, Topographical Survey, Preparation of the Construction Drawings, General and Technical Specifications, Bidding and Contract Documents and IEPA Public Water Supply Construction Permit Application, Bidding and Award, Pre-Construction Meeting, Construction Staking, Shop Drawings Review, On-Site Observations and Preparation of the Pay Requests and IEPA Disbursement Requests

Project Schedule: Completed - 2013

WHA Team:

Matt Hansen, P.E.

VILLAGE OF TAMPICO
WATER MAIN REPLACEMENT PROJECT
Location: Tampico, Illinois
Client: Village of Tampico, Illinois
Construction Cost: $1,902,000
Phase I, II & III Services

The water distribution system in the Village of Tampico has aging and undersized transite pipe water mains and numerous valves and fire hydrants that do not operate. WHA developed a plan and provided design and construction engineering services to construct approximately 12,800 feet of 6" and 8" diameter water mains in the northwest quadrant of the water distribution system; on Benton Street where the wells and elevated water storage tank are located; and on a portion of Kimball Street where the elementary school is located. The project also included the construction of new water service lines from the new water main to the property line for 136 water customers. WHA designed the new water mains so it could be constructed and tested while maintaining water service to the residential and commercial customers.

WHA assisted the Village in obtaining a USDA Rural Development Grant in the amount of $1,000,000 and a loan to fund the balance of the project cost. WHA prepared the USDA Rural Development Preliminary Engineering Report and planning documents and worked closely with the USDA Rural Development staff so the Village could obtain the grant and loan.

Scope of Work:
Preparation of USDA Rural Development Preliminary Engineering Report, Watermain Design, Preparation of the Bidding and Contract Documents, Technical Specifications and IEPA Public Water Supply Construction Permit, Bidding and Award, Shop Drawings Review, Construction Observation and Construction Administration.

Project Schedule: Construction Will Be Completed in Spring 2020

WHA Team:
Matt Hansen, P.E.
Mike Long, P.E.
Larry Griffiths

CITY OF OREGON
WATER MAIN REPLACEMENT PHASE 1

Location: Oregon, Illinois
Client: City of Oregon, Illinois
Construction Cost: $1,665,000
Phase I, II & III Services

A portion of the City of Oregon's water distribution system has 4" diameter water mains which cause capacity issues and have historically been more prone to breaks. The City is in Phase 1 of the water main replacement program to eliminate all of the 4" diameter water mains in the distribution system. Phase 1 includes the construction of 7,300 feet of 6", 8" and 12" diameter water mains and the construction of new water service lines from the new water main to the property line for 98 water customers.

WHA assisted the City in obtaining an IEPA Public Water Supply Revolving Fund Loan (PWSRFL) to the fund the project. The City was able to qualify for $1,500,000 in principal forgiveness and a 1.0% interest loan to fund the remainder of the project cost. WHA prepared the IEPA Project Plan Report and planning documents so the City could become eligible for funding. WHA also prepared the IEPA loan application documents so the City could obtain the loan.

Scope of Work:
Preparation of IEPA PWSRFL Project Plan Report, Planning Documents, and Loan Application Documents, Watermain Design, Preparation of the Bidding and Contract Documents, Technical Specifications and IEPA Public Water Supply Construction Permit, Bidding and Award, Shop Drawings Review, Construction Staking, Construction Observation and Construction Administration.

Project Schedule: Construction Will Be Completed in Spring 2020

WHA Team:
Matt Hansen, P.E.
Dale Hamilton, P.E.
Luke Dixon

VILLAGE OF COMPTON
WATER SYSTEM IMPROVEMENTS
Location: Compton, Illinois
Client: Village of Compton, Illinois
Construction Cost: $1,633,000
Phase I, II & III Services

The Village of Compton has an aging water system with numerous deficiencies that includes a leaking elevated water storage tank; water mains with frequent breaks and insufficient valving to isolate small segments; and well building piping, valves and meters that are in poor condition. Due to the specialized nature of the work being performed, the water system improvements were divided into three (3) contracts. Contract No. 1 was the Well Building Improvements. The new well building piping system was designed in such a manner that the new piping system could be constructed and tested while keeping one well in service at all times. Contract No. 2 was the new 50,000 Gallon Elevated Water Storage Tank. The new elevated water storage tank is being constructed adjacent to the existing tank so the Village can utilize property they currently own and it would make it easier to connect the tank to the water system when completed. In order to facilitate the construction of the new tank, WHA had to coordinate with ComEd to temporarily relocate overhead power lines to give the contractor enough room to work. Contract No. 3 was the water main improvements and included the construction of 3,700 feet of 6" diameter water main.

WHA assisted the Village in obtaining a USDA Rural Development grant in the amount of $956,000 and a loan to fund the balance of the project cost. WHA prepared the USDA Rural Development Preliminary Engineering Report and planning documents and worked closely with the USDA Rural Development staff so the Village could obtain the grant and loan.

Scope of Work:
Preparation of USDA Rural Development Preliminary Engineering Report, Watermain Design, Preparation of the Bidding and Contract Documents, Technical Specifications and IEPA Public Water Supply Construction Permit, Bidding and Award, Shop Drawings Review, Construction Observation and Construction Administration.

Project Schedule: Construction Will Be Completed in the Fall of 2020

WHA Team:
Matt Hansen, P.E.
Aaron Full, P.E.

MILLEDGEVILLE WATER SYSTEM IMPROVEMENTS
NEW WELL BUILDING AND
ELEVATED WATER STORAGE TANK

Location: Village of Milledgeville, Illinois
Client: Village of Milledgeville
Construction Cost: $1,365,000
Phase I, II & III Services

The water system improvements addressed aging water system facilities, water storage capacity and water system reliability. The Well #4 well building was in deteriorating condition and housed Well #4 and two (2) hydropnuematic storage tanks. Milledgeville had a total of four (4) hydropnuematic storage tanks connected to the water distribution system with a total capacity of 80,000 gallons but an operational volume of only 28,000 gallons between the low and high water system pressure.

WHA recommended the demolition of the existing Well #4 well building and hydropnuematic storage tanks and the construction of a new well building, a 250,000 gallon elevated water storage tank and a standby generator. The new well building housed Well #4, the water system controls and new chemical feed equipment. The new 250,000 gallon elevated water storage tank provided a slight increase in water system pressure and additional storage for fire protection and during temporary power outages. The standby generator provided a secondary power source so Well #4 would be able to operate during a power outage.

The project was financed with a Department of Commerce and Economic Opportunity Public Infrastructure grant and an Illinois Environment Protection Agency (IEPA) Public Water Supplies Revolving Fund Loan (PWSRFL). WHA provided the Village's grant consultant with an engineering report and cost estimates for the grant application. WHA prepared the IEPA Project Plan Report so the Village could obtain the IEPA PWSRF loan. The Project Plan Report detailed the condition of the existing water system, evaluated alternative designs, detailed the design criteria for the improvements, investigated environmental impacts, and developed the project cost estimates, financing plan, cost impact to users and the project schedule.

Scope of Work:

IEPA Project Plan, IEPA PWSRF Loan Application, User Charge Report,
Water System Hydraulic Modeling, Topographical Survey,
Well Building and Elevated Water Storage Tank Design, IEPA Construction Permit Acquisition,
Construction Staking, Construction Observation and Project Management

Project Schedule: Completed - 2009
WHA Team: Dan Loos, P.E., Larry Griffiths

AMENT DESIGN (SUBCONSULTANT)
EXPERIENCE & QUALIFICATIONS
SIMILAR PROJECTS

Relevant Project Experience:

Plaza Drive and Dubuque Road | Elk Run Heights, Iowa
2015-2016

Plaza Drive and Dubuque Road in Elk Run Heights (formerly Highway 20) carry 5,000 vehicles a day, 30 percent of which are semis traveling to or from John Deere or Tyson Foods.
Ament provided design surveys, engineering design, construction administration and construction observation on the Project.
The Project was paved with a GPS controlled string-less paver technology for which Ament Design established the control to the paving contractor specifications.

Lawther Hall Steam Tunnel | University of Northern Iowa, Cedar Falls Iowa
2015-2016

This project was requested to determine the location of underground utilities and an existing steam tunnel between two buildings on the UNI campus. The survey was to be used to design a steam return line between the buildings in a very congested corridor of utility services.

Our scope of services included establishing horizontal control based on Black Hawk County (Iowa State Plane) coordinates and establishing 1988 NGVD elevations on the site. The initial planning called for quality level C utility information.
An Iowa "one call" design information and locate request was initiated and mapping was received from the entities with utility installations. A further request for field ground markings was initiated and when marked the locations were surveyed of the markings and above ground appurtenances. These locations were mapped and compared with the utility mapping.

It was determined that the utility information would need to be increased to quality Level A without using destructive (potholing or vacuum truck) methods. In this case we utilized Ground Penetrating Radar to map the depth of the utilities. These locations along with further survey of the actual steam tunnel allowed us to present a 3d view of the utilities within the corridor.

Kimball Avenue | City of Waterloo, Iowa
2015-2016

This projected $6.1 million transportation improvement project involves widening and reconstruction of mainline Kimball Avenue, a minor arterial roadway in Waterloo, Iowa.

Ament Design performed the design surveys for the project corridor. Control was established using existing Blackhawk County GPS coordinates for horizontal location, and digital leveling procedures utilizing Second Order NGS benchmarks and running a control benchmark loop within Second Order Class 1 per NGS standards.

With a very high average daily traffic count, Ament Design used ground based LiDAR scanning to scan the pavement along the route and side streets. Conventional robotic total station topographic surveys were performed behind the curbs to complete the mapping of the corridor.

Ament Design performed existing and proposed right of way surveys within the corridor and provided 27 temporary easement and 11 permanent acquisition plats for the City of Waterloo for land acquisition.

Ament Design processed the LiDAR and topographic data into a 3d digital product for design purposes.

76th Avenue SW | City of Cedar Rapids, Iowa
2014-2015

This $4.9 million dollar roadway improvement project involves a segment of mainline 76th Avenue SW and short segments of the 26th Street SW and 18th Street SW side roads in a rural, mostly undeveloped area of Cedar Rapids.

Ament Design provided horizontal and vertical project control, topographic surveys, existing property line surveys, and creation of a Microstation/Geopak model.

Project horizontal control based on City of Cedar Rapids GPS monuments as observed using the Iowa RTN. Vertical control established by Second Order Class 1 digital leveling from existing NGS datum benchmarks. Topography performed with a combination of GPS and robotic total station equipment.

The project includes the development of ten (10) right-of-way acquisition plats, seven (7) permanent easement exhibits, and nine (9) temporary construction easement exhibits for the abutting properties.

Oakland Road-Old Marion Road I City of Cedar Rapids, Iowa
2016 - 2017

Project for reconstruction and rehabilitation of 2 miles of urban corridor with 13 side street intersections. Ament Design provided horizontal and vertical control surveys. Horizontal control determined using City of Cedar Rapids GPS control monuments and the Iowa RTN. Vertical control used existing City of Cedar Rapids vertical datum and was run to Second Order Class 1 NGS vertical control standards.
Topographic surveys were completed using robotic total stations and results were mapped into Microstation/Geopak. Property ties were made and existing right of way lines calculated through the corridor for preparation of 44 permanent acquisition and temporary easement plats and descriptions within the corridor.

US Route 150 ROW Plats I Henry County, Illinois
2016-2017

This project involved boundary surveys, right-of-way platting, permanent easement, temporary easement plat preparation and staking of proposed right-of-way and permanent easements. Preparation of 13 right-of-way plats, 13 temporary easement plats, 41 premise plats, 13 right-of-way staking plans and 70 parcel descriptions were prepared using Microstation/Geopak.

IL Route 84 – Section Corner and Block Corners I Colona, Illinois
2016-2017

This project consisted of boundary surveys to determine block corners for the original towns of Colona and Green Rock that border on IL Route 84. Project included extensive research, field ties, calculations and plat preparation. Block corners were established for 1.8 miles through both towns. Project further included land section corner surveys for four sections. A total of seven Section corner and Block corner plats were prepared.

IL Route 84 – Topographic Surveys I Colona, Illinois
2016-2017

This project consisted of surveys to supplement LiDAR and to calculate existing topography and alignment of the BNSF Railroad and IAIS Railroad with both railroads sharing a section of track through the City of Colona. Our surveys included 1.5 miles of topography of the railroad corridors through the City and extended an additional 1000 feet in four directions exiting the City. Field topography was mapped in Microstation/Geopak and 3d models prepared for deliverables. Project included careful coordination with two separate railroads.

IL Route 81 Topographic Surveys | Kewanee, Illinois
2015-2016

This project involved topographic surveys in a 100-foot corridor of two lane rural highway for approximately 7 miles to be used in plan preparation for resurfacing and reconstruction. Field work included establishing horizontal and vertical control within the corridor, topography including location of 28 culverts and drainage areas, side road surveys out to 500 feet for 8 side roads and a dozen city streets out to the first intersection, along with tree surveys in town and within300 feet of the culverts were surveyed.
Office work included processing horizontal and vertical control, 3D base mapping and Deliverables included a Microstation 3D drawing file, a Geopak TIN file, Geopak data files, and associated leveling and control files.

IL Route 20 ADA Sidewalk Topographic Surveys | Elizabeth, Illinois
2015

This project involved topographic surveys to be used in plan preparation for proposed ADA compliant sidewalks along US 20 through the Town of Elizabeth. Field work included topography within the Right-of-Way for 3700 LF of suburban area highway and 12 side street intersections. Field work included establishing horizontal control with tie points and digital leveling. Office work included 3D base mapping and updating control file as well as calculation and location of existing mainline and side intersections. Deliverables included a Microstation 3D drawing file, a Geopak TIN file, Geopak data files, a Microstation base drawing file of existing property and associated leveling and control files.

Interstate 280 Mississippi River Bridge Topographic Surveys | Rock Island, Illinois
2014

This project consisted providing design quality surveys on I-280 for approximately 3 miles, including approximately 5000 linear feet of elevated structure and including a 550 foot suspension bridge over the Mississippi River.

Project centerline(s) of Interstate and the interchange of Centennial Expressway were re-constructed from as-built survey and record plan information.

Vertical control was run from second order published NGVD 88 datum over the bridge and tied to GPS control in Iowa. Digital levels and bar coded rods were used to maintain accurate vertical measurements. The suspension bridge was measured using conventional leveling three wire closed loop techniques. Results showed measurements to the bridge piers to be with approximately .04 feet, plus or minus of the original plan elevations.

Pavement shots were obtained utilizing total station equipment for hard surface areas and GPS-RTK units for ground elevation shots. Bridge piers were measured using established deck elevations from the level loop at each pier and then measured down using a steel tape to the top of pier.

This project demonstrated our ability to communicate and create innovative team solutions to problems. During the course of the project we utilized our DBE sub -consultant as a part of our crew as well as continued communication with District Highway Safety personnel, local maintenance personnel (providing rolling traffic control), and Bridge office snooper truck personnel for the low steel measurements across the bridge.

Final product included Leica Leveling Report in WORD format, 3d topography in Microstation and Geopak, and spreadsheet of deck and pier elevations for 27 piers with upstream and downstream measurements.

19th Street – East Moline, Illinois | 2014

Ament, Inc. provided topographic mapping of outfall structure and retaining wall failure for approximately 1900 feet of highway ditch in a residential area for plan preparation to address wall failures.

IL Route 92 ADA Sidewalk Topographic Surveys |Moline, Illinois 2013

This project involved topographic surveys to be used in plan preparation for proposed ADA compliant sidewalks. Topography was field located for 1.2 miles of urban area highway / streets and 3D base mapping was performed. Deliverables included a Microstation 3d drawing file, a Geopak TIN file and Geopak data files.

FAI Interstate 80 | Rock Island and Henry County, Illinois 2013

This project involved establishing the centerline of FAI Interstate Route 80 from the intersection of FAI Interstate 74 to the Henry & Bureau County line. 29 miles of existing centerline were located and calculations were made to determine a usable centerline for the District. Topography was field shot control utilizing GPS methods. Deliverables were a Microstation 2d drawing file and a Geopak data file containing curve data and the final calculated alignment.

FAI Interstate 74 and IL Route 5 Topographic Surveys | Moline, Illinois 2013

Topography was field located for several miles of the urban area highway and interchanges as well as side roads for use in plan preparation of improvements at the interchange. The TIN models prepared by Ament Design were woven into existing LiDAR data to lend accuracy to the aerial topographic information. Deliverables included a Microstation 3d drawing file, a Geopak TIN file and Geopak data files.

Highway 67 Topographic Survey and Centerline alignment | Rock Island, Illinois 2012

This project involved a 7.5 mile run of 2nd Order NGS digital leveling from existing NGS monuments to local site control. GPS location of control with tie checks to existing monuments was taken at different times and days to verify satellite geometry. The alignment was determined for approximately 12 miles of two lane and four lane highway including 2.5 miles of urban residential and commercial developed highway. Side road centerlines were also determined and a Geopak alignment file was produced for each alignment. Topography was field shot for 2.5 miles of the urban area and 3D base mapping was performed. Deliverables included a leveling report in Microsoft Word format, an ascii file of horizontal control points with physical tie point

PROJECT TEAM/RESUMES

WHA's project philosophy incorporates a "Team" approach to the project and stresses communication and collaboration between our project manager, our design team members and the owner. WHA believes that successful projects are a function of good planning, design and quality control on our part, meeting our owner's project schedule, incorporation of the owner's input into the project design, and good communication. Matt Hansen, P.E. will be the Project Manager and will be the Village's primary contact person for this project. Mr. Hansen will be leading the WHA design team and coordinating all aspects of the project design. The Project Team is detailed below.

Willett, Hofmann & Associates, Inc. Team	
Project Manager	Matt Hansen, P.E. Water & Wastewater Department Manager Vice-President
Civil Engineering	Matt Hansen, P.E., QA/QC Engineer Michael Long, P.E., Design Engineer Dan Loos, P.E., Design Engineer

Subconsultant – Ament Design, Moline, IL	
Land Surveying	Jim Rose, P.L.S. Chad Macke, L.S.I. Benjamin Ernst

G. Matthew Hansen, PE

POSITION
Principal Engineering Manager
Vice President
Water & Wastewater
Department Manager

EDUCATION
Bachelor of Science Civil Engineering
University of Wisconsin Platteville - 1991

EMPLOYMENT HISTORY
Willett, Hofmann & Associates, Inc.
1991 - Present
28 Years Total Experience

REGISTRATION
PE/IL/1996
PE/WI/1996

WORK EXPERIENCE
Matt is a Vice President and the Water &Wastewater Department Manager at Willett, Hofmann & Associates, Inc. with twenty-eight years of experience in the planning, design and construction of wastewater treatment plants, lift stations, forcemains, sanitary sewers, water treatment plants, water storage facilities, wells, booster pump stations and water distribution systems.

PROJECT EXPERIENCE
City of Rochelle - Well #12 and Elevated Water Storage Tank
Responsible for the project administration and quality control of the design and project administration for the construction of a new 970-foot-deep sandstone well, a 1,300 gpm submersible pump, a 1,900-square foot well building, and a 750,000-gallon elevated water storage. The well and elevated water storage tank are located in a higher elevation area south of the City that cannot be served by the existing water system. The new well and elevated water storage tank expands the capacity of the water system and opens a large area to the south of the City for industrial development. The well building includes chemical equipment for the addition of chlorine, fluoride and phosphate and a pressure reducing valve to connect to two pressure zones in the water distribution system.

City of Fulton - Well #4 Water Treatment Plant and Well #5
Responsible for the planning, project management and quality control of the design and project administration for the construction of a new water treatment plant for Well #4, drilling and developing Well #5, and 1,966 lineal feet of 12" diameter watermain. The Well #4 water treatment plant includes a 3,224-square foot building that houses the existing Well #4, a 1,200 gpm pressure filter for the removal of iron and manganese, chemical feed rooms for the addition of chlorine, fluoride and phosphate and a laboratory area to perform daily testing. The process piping system included (2) pressure reducing valves to connect the water plant to the lower pressure system. The water treatment plant also includes a 35,000-gallon underground backwash tank to hold the backwash water from the filter, so it can be released at a low rate into the sanitary sewer system and a standby generator for the facility. The new Well #5 includes drilling and developing a deep Ironton-Galesville sandstone well that is 15" diameter and 1,940 feet deep and a 600 gpm submersible pump with a pitless adapter. The project was funded with an IEPA Revolving Fund Loan, and Matt was responsible for the submission of a Project Plan Report to the IEPA to obtain preliminary approval of the project and then submission of the IEPA loan documentation for the City to obtain the IEPA Revolving Fund Loan.

City of Oregon - Water Replacement Phase I
Responsible for the quality control of the planning, design, construction and project administration for the construction of approximately 7,330 feet of 6", 8" and 12" water mains. The project also includes the construction of new water service lines from the new main to the property line for water customers.

Michael P. Long, PE

POSITION
Civil Engineer III
Water & Wastewater Design

EDUCATION
Bachelor of Science
Environmental Engineering
University of Wisconsin-Platteville - 2012

EMPLOYMENT HISTORY
Willett, Hofmann & Associates, Inc.
2012 - Present
7 Years Total Experience

REGISTRATION
PE/IL/2016 062-069075

WORK EXPERIENCE
Michael is a Project Engineer at Willett, Hofmann & Associates, with seven years of experience in the planning, design, and construction of lift stations, forcemains, sanitary sewers, wastewater treatment plants, wells, water treatment plants, water storage facilities and water distribution systems.

PROJECT EXPERIENCE
City of Rochelle - Well #12 and Elevated Water Storage Tank
Responsible for the design, permitting and project administration of a 970-foot-deep sandstone well, a 1,300 gpm submersible pump with pitless adapter, a 1,900-square foot well building with chemical feed equipment, flow meters, pressure reducing valve and water system controls, site piping and improvements, a 750,000-gallon elevated water storage tank and standby generator. The new well and elevated water storage tank expands the capacity of the water system and provides water service to a higher elevation area south of the City that cannot be served by the existing water system that the City is marketing for industrial development. The pressure reducing valve inside the well building connects to two pressure zones in the water distribution system and allows water from the new well and elevated water storage tank to flow into the lower pressure zone.

City of Rochelle - Well #11 Water Treatment Plant
Responsible for the design, permitting and project administration of a 1,300 gpm radium reduction water treatment plant. The project included the design of a 1,300 gpm hydrous manganese oxide (HMO) pressure filter for the removal of radium and iron, a sand separator to remove sand being pumped from the well, chemical feed equipment, process piping, valves and metering equipment, water system controls, site piping and improvements and a standby generator. The water treatment plant is housed in a 3,272 square foot building. The project was located in a newly mapped FEMA floodway way which required a site grading plan that provided for compensatory storage and obtaining a permit from IDNR-OWR.

City of Rock Falls - Well #7 and Well #4 Abandonment
Responsible for the design, permitting and project administration of a 24" diameter x 145-foot-deep sand and gravel well, a 1,000 gpm submersible pump with pitless adapter, an 8" diameter connecting watermain to the existing water treatment plant, modifications to the Well #4 building, abandonment of Well #4 and site improvements. Also, the preparation of the IEPA Project Plan Report and the IEPA loan documentation so the City could obtain a low interest loan through the IEPA Pubic Water Supply Revolving Fund Loan program to fund the project.

Village of Tampico - Water Main Replacement
Responsible for the design, permitting and project administration for the construction of approximately 12,800 lineal feet of 6" and 8" diameter water main to replace the existing aging and undersized water mains. The project also includes the construction of new water service lines from the new water main to the property line for 136 water customers.

Daniel B. Loos, PE

POSITION
Civil Engineer IV
Water/Wastewater Design

EDUCATION
Bachelor of Science
Environmental Engineering
University of Wisconsin Platteville - 2004

EMPLOYMENT HISTORY
Willett, Hofmann & Associates, Inc.
2004 - Present
15 Years Total Experience

REGISTRATION
PE/IL/2011

WORK EXPERIENCE
Dan is a Project Engineer at Willett, Hofmann & Associates, Inc. with fifteen years of experience in the planning, design and construction of wastewater treatment plants, lift stations, forcemains, sanitary sewers, water treatment plants, water storage facilities, wells, booster pump stations and water distribution systems.

PROJECT EXPERIENCE
City of Fulton - Well #4 Water Treatment Plant and Well #5
Responsible for the design and project administration for the construction of a new water treatment plant for Well #4, drilling and developing Well #5 and 1,966 lineal feet of 12" diameter watermain. The Well #4 water treatment plant includes a 3,224-square foot building that houses the existing Well #4, a 1,200 gpm pressure filter for the removal of iron and manganese, chemical feed rooms for the addition of chlorine, fluoride and phosphate and a laboratory area to perform daily testing. The process piping system included (2) pressure reducing valves to connect the water plant to the lower pressure system. The water treatment plant also includes a 35,000-gallon underground backwash tank to hold the backwash water from the filter so it can be released at a low rate into the sanitary sewer system and a standby generator for the facility. The new Well #5 includes drilling and developing a deep Ironton-Galesville sandstone well that is 15" diameter and 1,940 feet deep and a 600 gpm submersible pump with a pitless adapter.

Village of Milledgeville - Water Works Improvements
Responsible for the design and project administration for the construction of a new 250,000-gallon elevated water storage tank to replace two (2) 12,500-gallon hydropneumatic tanks and a new well building for Well #4 which included new chemical feed equipment, water system controls and a standby generator. WHA developed a water model of the Village's water system using WaterCAD by Haestad Methods and verified field fire flow data collected throughout the water distribution system with model analysis. The water distribution system modeling was used to size and demonstrate the benefits of a new elevated water storage tank and identified where improvements to the water distribution system need to be made in the future.

City of Oregon - Well #2, #3 and #4 Well Building Replacement and Ground Level Storage Tank Painting
Responsible for the design and project administration for the construction of three (3) well buildings which included new process piping, chemical feed equipment for the addition of chlorine, fluoride and phosphate, new electrical and water system controls and site piping, grading and surface improvements. The project also included the painting of the interior and exterior of an 850,000 gallon and a 900,000-gallon ground level storage tank.

Jim D. Rose, PLS

Licensed Professional Land Surveyor – Iowa, Illinois, Missouri, Wisconsin

Black Hawk College Moline, University of Missouri Rolla

Professional Certifications:

- Professional Land Surveyor
  Iowa #11309
  Illinois #035-002775
  Missouri # 2322
  Wisconsin #1911
- E-Loma Professional
- NOAA National Geodetic Survey – Geodetic Leveling Course Corbin, VA October 2011

Professional Affiliations

- Illinois Professional Land Surveyors Association - Past President
- Society of Land Surveyors of Iowa
- Missouri Association of Professional Land Surveyors
- Wisconsin Land Surveyors Association
- American Congress on Surveying and Mapping
- American Council of Engineering Companies

Awards
Carter Jenkins Distinguished Service (Illinois Professional Land Surveyors Association)

Years Experience: 30
Years with Ament: 15

Mr. Rose is President and a Principal with Ament Design in the Moline office. He has 30 years of experience managing land surveying projects, including six years in which he was managing partner of Rose-Anderson Professional Land Surveyors. His experience includes topographic and construction surveys, subdivisions, urban and suburban boundary surveys, recovery re-monumentation and re-establishment of U.S. Public Land Survey Corners for numerous Illinois DOT projects as well as private clients.

Mr. Rose also has experience in hydrographic surveys and bridge substructure surveys. He has been involved in the preparation of land surveying documents, including sub-division plats and descriptions, ALTA plats, U.S. Public Land Corner Certificates, Public Land Survey System retracement surveys and plats as well as the preparation of survey reports, and highway right-of-way plats and descriptions.

Over the last ten years Mr. Rose has managed transportation related survey projects totaling over 10 million dollars in fee revenue for the Illinois Department of Transportation and the Illinois Toll Highway Authority.

PERSONAL PROJECT EXPERIENCE

PROJECT MANAGEMENT

Illinois Department of Transportation | Various Routes/Various Counties, District 2
PTB 136 / 013
Management of contract and work flow as well as management of land surveying work on a $350,000 work order consisting of land acquisition work within District 2 upon request. No sub consultants required.

Illinois Department of Transportation | Various Routes / Various Counties District 2
PTB 140 / 016 and First Supplemental Agreement
PTB 142 / 008 and First Supplemental Agreement
PTB 148 / 007 and First Supplemental Agreement
PTB 154 / 029 and First Supplemental Agreement
PTB 159 / 019 and First Supplemental Agreement
PTB 172 / 016
Management of the original and first supplemental contract. In charge of work flow, scheduling, client communications and direction of sub-consultant as well as managing land surveying on multiple work order (renewable) contracts consisting of Route and Land Acquisition surveys within District 2 for the above listed PTB Items.

Illinois State Toll Highway Authority | Downers Grove, Illinois
System Wide – On Demand Surveying Services
RR - 02-5134
Contract management and coordination with lead design firm to lead and perform Land Surveying services to establish existing right of way and

proposed right of way parcels on the I-88 corridor from Naperville Road to Downers Grove I-355 Interchange. Final deliverables were a recordable plat of highways and GIS database.

Illinois State Toll Highway Authority, Downers Grove, Illinois
System Wide – On Demand Surveying Services
RR - 06-5389
Contract management including management of 3 separate sub consultants on a $1,000,000 system wide on demand route and land surveying services. Contract management included training and use of electronic project management system. Also in charge of land acquisition plat and description review as well as mentoring of various sub consultants preparing right of way plats and descriptions.

We prepared new highway plats for approximately 30 miles of the North Tri-State, and provided research, analysis, field surveys and conflict resolution for 11 miles of urban expressway. In addition, the ISTHA asked Ament to review the land acquisition documents prepared by other consultants for the North Tri-State reconstruction. The final deliverable was a unified plat of highways showing the client's legal holdings, as well as on demand boundary and topographic surveys.

Cass Realty Farm Surveys
Assembled and led team to provide ALTA / ACSM Land Title surveys for 44 farms located in southwest Wisconsin. Provided client contact between survey team and attorneys, worked with local land owners and tenant farmers to coordinate survey efforts. End result was the delivery of 44 plats and legal descriptions or approximately 10,000 acres within 75 calendar days.

Iowa Highway 100 Extension
Linn County Regional Planning Commission, Cedar Rapids, Iowa
Project included establishing horizontal control for 8 miles of proposed four-lane highway alignment using conventional traverse methods tied to previously established Iowa DOT GPS control. Topographic hard shots of existing crossing roadways and drainage features to supplement aerial mapping of project corridor for design purposes. Survey of land lines within the project corridor, establishment of property lines, existing right of way lines and portions of ancient railroad right of ways within the project corridor. Analysis of title work for properties within the project corridor and preparation of land line property map for proposed future highway right of way acquisition.

76th Avenue Paving Project
City of Cedar Rapids, Iowa
Project included establishing horizontal control for 1 mile of roadway alignment using GPS methods to place control on City of Cedar Rapids existing control grid. Established vertical control on-site using conventional leveling methods. Mapping survey of 200-foot wide project corridor, research, field ties and calculations for landline and right of way line locations. Prepared base mapping and Digital Terrain Model for use of design engineers.

Wright Brothers Boulevard Roadway Realignment
City of Cedar Rapids, Iowa
Project included establishment of new roadway alignment of 1.5 miles of new roadway using conventional traverse methods. Vertical control established using conventional leveling methods. Mapping survey of project corridor to supplement existing aerial mapping. Research, field ties and calculations for landline locations, preparation of right of way plats and easement plats. Construction staking for improvements.

Airport Park Third Addition
The Eastern Iowa Airport, Cedar Rapids, Iowa
Research, field ties and calculations for boundary survey of 8-acre commercial property.
Field mapping of site and preparation of base map and Digital Terrain Model for use by design engineers and architects. Construction staking for site development.

Wright Brothers Boulevard Right of Way
Cedar Rapids, Iowa
Survey of existing highway and land lines to prepare right of way plats for approximately one mile of highway that was constructed prior to right of way platting.

Illinois Department of Transportation District #4
Peoria, Illinois
Surveying services performed on a $250,000 various/various contract. Projects included Illinois Route 9 from Pekin to Tremont, Ilinois. Project included establishing horizontal control using conventional traverse methods utilizing previous GPS control established by ILDOT for approximately 7 miles. Establishment of benchmarks using conventional leveling methods for project. Topography for proposed highway improvement in project corridor utilizing total station data collection methods.

Illinois Department of Transportation District # 2
Dixon, Illinois
Field survey, calculations and preparation of property plats and right of way plats for projects in Henry County, Rock Island County, and Mercer County. Four separate projects with fee total approximately $125,000.

Clinton Riverfront Development Project
We used Real Time Kinematic GPS in combination with convention total stations to map the shore lines. For the water we use the Real Time Kinematic mounted to a 16 foot boat to determine locations, depths are measured both conventionally and in combination with a depth finder on the boat. We also randomly re-check areas to make sure that we are getting accurate depth information for river or stream bottom contours. Approximately 1 mile of shore line, approximately 1/4 mile into river channel and island.

IL 78 Mount Carroll, Illinois completed 2005
Land Surveying Services. Section corner retracement surveys along IL 78 from Mount Carroll to the Jo-Davies County line (approximately 6 miles). Work included courthouse research, field reconnaissance, GPS surveys in corridor, field ties of existing monuments and evidence, calculations and analyzation of section and land lines. Final product recordable Monument Records and Plats of Survey along with electronic deliverables in Geopak / Microstation.

IL 78 Mount Carroll, Illinois completed 2005
Land Surveying Services. Preparation of Right of Way, Easement and Premise Plats, legal descriptions for proposed right of way takings along IL 78 from Mount Carroll, Illinois to the Jo-Davies County line. Included pick-up surveys for land line information, calculations, drafting, final preparation of right of way documents, right of way staking and preparation of Right of Way Staking plans. Final product recordable Right of Way plats and electronic files in Geopak / Microstation.

US 52 / IL 64 Savanna, Illinois, completed 2006
Land Surveying Services. Preparation of Right of Way, Easement and Premise Plats, legal descriptions for various spot right of way takes along US 52 / IL 64 from Savanna to Mount Carroll, Illinois (approximately 7 miles). Included pick up surveys for land line information, calculations, analyze field data, prepare plats, prepare descriptions, stake proposed right of ways, prepare Right of Way Staking plans.

FAI 74 Henry County, Illinois completed 2006
Route surveying services. Field survey utilizing digital leveling procedures for establishing benchmarks from the intersection of I-74 and I-80 to the Henderson County Line (approximately 32 miles of level run). Work included field reconnaissance for existing bench marks, establishment of new benchmarks along Interstate, field run digital leveling, obtain handheld gps positions on benchmarks, and processing of digital leveling data. Deliverables were provided in reports generated from the Leica software and preparation of spreadsheets for use by the District.

FAI 74, Moline, Illinois completed 2006
Route Surveying services. Field survey utilizing Real Time Kinematic gps units and total stations to obtain pavement elevations on Interstate 74 in Moline, Illinois from the Mississippi River Bridge to the Rock River Bridge (approximately 3.6 miles of 4 land divided interstate highway). Work included field reconnaissance of existing horizontal and vertical control, survey of pavement surfaces, ramps, side roads, overpasses in corridor. Work also included coordination with various government agencies, traffic control contractor and complicated scheduling to work in heavy traffic.

I-88, Downers Grove, Illinois Completed in 2004
Land Surveying services. Determination of Highway Right of Way for 5 miles of Interstate 88 (Reagan Memorial Toll Highway) from Naperville Road to Downers Grove, Illinois. Work included research, field reconnaissance, analyze existing title commitments, field survey of section corners and land lines, calculations, and preparation of Plats of Acquisition and Plats of Higway for the corridor. Product deliverables recorded Monument Records, Plats of Acquisition and Plats of Highway for the corridor.

Metro-Link, Rock Island, Illinois Completed in 2006
Control and topographic surveys for approximately 10 acres of existing industrial facilities for proposed design of future construction. Work involved control research, field topography utilizing Real Time Kinematic gps and robotic total station, utility research and investigation and completion of 3d TIN model of project area in Microstation.

PUBLICATIONS AND PRESENTATIONS

Mr. Rose has taught college courses in surveying technology and survey law. He has also participated in articles about survey careers and technology in the Cedar Valley Business Monthly, the Moline Argus/Dispatch, the Cedar Rapids Gazette and industry magazines.

Presentations:

- "Ground-Based LiDAR (Laser Scanning) Technology for Architectural Uses," continuing education seminar sponsored by the American Institute of Architects, Des Moines, Iowa, June 2009
- "Township Roads: Location, Existence and Evidence" Right of Ways Seminar presented at the Northwest Illinois Township Road Supervisors' Annual Meeting, Sterling, Illinois, May 7, 2010.

Chad O. Macke, LSI

Morrison Institute of Technology
Associate Degree in Construction Technology

Surveyor-in-Training – 2007, Iowa #16646

Illinois Department of Transportation Construction Documentation Course

Chad has over eighteen years of experience with a variety of land surveying projects including 3D Laser Scanning. He manages our survey field crews and our laser scanning services. High definition 3D laser scans have included a variety of structures for both architectural, civil and transportation projects.

Chad's project experience includes numerous route topographic surveys, record document research section corner ties, right-of-way surveys, plats and descriptions for state and local governmental agencies. He also has experience in private property surveys.

PROJECT EXPERIENCE

IL 84 – Rock River to BNSF Rail Crossing – Block Corners | Colona, Illinois
2016
Research, field survey, calculations and preparation of Block corner plats in Colona and the town of Green Rock to determine IL 84 highway right-of-way for approximately 9,000 linear feet. Challenges to recover surveys of an area that grew very quickly in the 1940's and 1950's with various surveyors platting lands on both sides of the highway. There were five block corner plats with 156 block corners recovered or re-established. There were two section corner plats with 24 PLSS corners recovered or re-established. Deliverables include Microstation/Geopak files, recorded copies of plats and monument records.

IL 84 & Cleveland Road – Railroad Surveys | Colona, Illinois
2016
The BNSF and IAIS Railroads both have separate crossings on Cleveland Road within 400 feet of the IL Route 84 intersection. We provided additional horizontal and vertical control, located approximately 2 miles of each railroad for alignment calculations, provided topographic survey for approximate 4000 feet of IAIS Railroad, and approximately 6,500 feet of topographic survey of the rail areas through Colona and along Cleveland Road. Calculations were performed to establish the both railroad centerlines, and DTM was prepared for the area. Our deliverables were Microstation dgn and geopak files. Project also included coordination with both railroads and training of our field personnel in track safety.

US 150 Right of Way Plats | Alpha, Illinois
2016
Records research, property ties and calculations for parcel boundary lines, review title documents, perform calculations of existing right-of-way, parcel calculations, plats and descriptions for right-of-way and temporary easement parcels for US 150 from Alpha, Illinois to IL 81, approximately 6.5 miles of rural highway consisting of 71 right-of-way and easement parcels.

Chad O. Macke
(309) 762-3617
cmacke@ament.c

Ament DESIGN
Architecture • Engineering • Surveying

IL Route 81 Topographic Surveys | Kewanee, Illinois
2015-2016
This project involved topographic surveys in a 100-foot corridor of two lane rural highway for approximately 7 miles to be used in plan preparation for resurfacing and reconstruction. Field work included establishing horizontal and vertical control within the corridor, topography including location of 28 culverts and drainage areas, side road surveys out to 500 feet for 8 side roads and a dozen city streets out to the first intersection, along with tree surveys in town and within300 feet of the culverts were surveyed.
Office work included processing horizontal and vertical control, 3D base mapping and Deliverables included a Microstation 3D drawing file, a Geopak TIN file, Geopak data files, and associated leveling and control files.

IL Route 92 ADA Sidewalk Topographic Surveys |Moline, Illinois 2013
This project involved topographic surveys to be used in plan preparation for proposed ADA compliant sidewalks. Topography was field located for 1.2 miles of urban area highway / streets and 3D base mapping was performed. Deliverables included a Microstation 3d drawing file, a Geopak TIN file and Geopak data files.

FAI Interstate 80 | Rock Island and Henry County, Illinois 2013
This project involved establishing the centerline of FAI Interstate Route 80 from the intersection of FAI Interstate 74 to the Henry & Bureau County line. 29 miles of existing centerline were located and calculations were made to determine a usable centerline for the District. Topography was field shot control utilizing GPS methods. Deliverables were a Microstation 2d drawing file and a Geopak data file containing curve data and the final calculated alignment.

FAI Interstate 74 and IL Route 5 Topographic Surveys | Moline, Illinois 2013
Topography was field located for several miles of the urban area highway and interchanges as well as side roads for use in plan preparation of improvements at the interchange. The TIN models prepared by Ament Design were woven into existing LiDAR data to lend accuracy to the aerial topographic information. Deliverables included a Microstation 3d drawing file, a Geopak TIN file and Geopak data files.

US Route 6 | Henry County, Illinois 2013
This project involved establishing existing right-of-way and property line locations for an approximate nine mile corridor from FAI Interstate 74 to the westerly limits of the City of Geneseo on US Route 6. Ament Design was flexible in performing revisions as needed to aid the right of way negotiation process. Field surveys were calculated and processed into Premise Plats, Right-of-Way Plats, Easement Plats, Right-of-Way Staking Plans and Legal Descriptions for the affected parcels within the corridor. All deliverables were completed using Microstation/Geopak® software. Approximately 15 land parcels were in the final right of way taking including Excess Property Plat preparation and a Total Take ROW parcel.

Benjamin R. Ernst

Bachelor of Science, Technical Resource Management (Land Surveying) Southern Illinois University, Carbondale

Illinois Registered Land Surveyor in Training License #028.001509 2011

Professional Affiliations:

- Illinois Professional Land Surveyor Association (IPLSA)

Years Experience: 7
Years with Ament: 7

Ben joined Ament, Inc. in October 2010. He has over seven years of experience performing field work on land section, corner, and route survey topographic projects since college graduation. He graduated Magna Cum Laude and was named to the President's List. Ben is also a recipient of the Iowa Land Surveying Scholarship and is currently taking his Illinois PLS exams.

PERSONAL PROJECT EXPERIENCE

TRANSPORTATION

Project Experience

IL 84 & Cleveland Road – Railroad Surveys | Colona, Illinois
2016
The BNSF and IAIS Railroads both have separate crossings on Cleveland Road within 400 feet of the IL Route 84 intersection. We provided additional horizontal and vertical control, located approximately 2 miles of each railroad for alignment calculations, provided topographic survey for approximate 4000 feet of IAIS Railroad, and approximately 6,500 feet of topographic survey of the rail areas through Colona and along Cleveland Road. Calculations were performed to establish the both railroad centerlines, and DTM was prepared for the area. Our deliverables were Microstation dgn and geopak files. Project also included coordination with both railroads and training of our field personnel in track safety.

US 150 Right of Way Plats | Alpha, Illinois
2016
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2015-2016
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Office work included processing horizontal and vertical control, 3D base mapping and Deliverables included a Microstation 3D drawing file, a Geopak TIN file, Geopak data files, and associated leveling and control files.

Benjamin R. Ernst
(309)762-3617
bernst@ament.com

Ament DESIGN
Architecture • Engineering • Surveying

Qualifications for

NIABI ZOO ROAD WATER MAIN CONNECTION

Village of Coal Valley, Illinois

November 15, 2019

November 15, 2019

Annette Ernst, Village Administrator
Village of Coal Valley
Village Hall
900 1st Street
Coal Valley, Illinois 61240

RE: Letter of Interest – Professional Engineering Services to the Village of Coal Valley's Niabi Zoo Road Water Main Project, Coal Valley, Illinois
Project Number 19203

Dear Ms. Ernst and Selection Committee Members:

Thank you for this opportunity to introduce our teams' shared qualifications and expertise in water system projects to the Village of Coal Valley.

OUR TEAM

EnviroNET is a Quad Cities-based Environmental and Engineering services firm and IIW, an Engineering, Architecture, and Surveying firm, with offices in the Quad Cities and Dubuque, IA, are working together to provide engineering services that can best address your multi-faceted project. While no two communities are ever the same, Coal Valley's desire for increased well capacity, the connection of Niabi Zoo to your system with a 12 inch main, the addition of a new elevated storage tank, and replacement of water main are all projects which align closely with those that our team has been working on for nearly 40 years. The combined strength of our firms offer not only additional local resources for your project but also additional and diverse areas of expertise. Roger Geiken P.E. of EnviroNET will lead this team effort and is a familiar face in your community from his past water systems project work in Coal Valley, Silvis, Colona and other surrounding communities.

Our team offers a full range of professional services with a staff of highly qualified and licensed engineers, architects, surveyors, specialists, inspectors, and technicians. Our projects are managed with the client's goals, budget, schedule, and citizens in mind at all times, resulting in a long history of collaborative relationships with communities large and small throughout the Midwest.

OUR EXPERIENCE

Water system assessment, evaluation, design, and construction are areas of deep expertise for our team. We also offer strong experience in:

- Wastewater treatment facilities and evaluations
- Stormwater planning, design, and construction engineering
- Transportation system design
- Bridge design and inspection
- Land acquisition assistance and associated land surveying

The team has worked regularly with the necessary state and federal agencies to complete water system projects and also offers the experience to support the pursuit of funding for local municipalities. We will listen first to understand your goals and then partner with you to achieve them.

In the pages that follow, we have included information about both of our firms, our staff resources to support the Village of Coal Valley, and our extensive experience and ability to complete this important project. Please let us know if you require additional information.

We would be grateful for the opportunity to apply our combined expertise, our commitment to excellence, and our passion for infrastructure projects in service to the Village of Coal Valley. We look forward to your response.

Sincerely,

Roger L. Geiken, P.E., P.L.S.
Project Manager & Senior Engineer, EnviroNET, Inc.

Geoffry T. Blandin, P.E.
IIW Team Leader

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TEAM INFORMATION

OUR TEAM'S WATER SYSTEM EXPERIENCE

Project Type	Client	Study/Evaluation	Well/Pump	Reservoir/Water Tower	Waterworks Pumping Facility	New Water Main	Water Main Replacement	Water Treatment	Construction Related Services	Surveying/Construction Layout Staking
		Services Provided								
Water System	City of Silvis, IL	●	●	●	●	●	●	●	●	●
Water System	City of Colona, IL	●	●	●	●	●	●	●	●	●
Water System	Village of Orion, IL	●	●	●	●	●	●	●	●	●
Water System	Silvis Heights Water Corp., Silvis, IL	●		●	●			●	●	●
Water System	City of LeClaire, Iowa	●	●	●	●	●	●	●	●	●
Water System	City of Durant, IA			●					●	●
Water System	City of DeWitt, IA	●		●	●	●	●	●	●	●
Water System	Frentress Lake, IL	●	●	●	●	●		●	●	●
Water System	University of Iowa, Iowa City, IA	●			●	●	●		●	●
Water System	City of Princeton, IL		●			●			●	●
Water System	City of Rockton, IL	●	●	●		●	●		●	●
Water System	City of Ossian, IA		●	●		●	●	●	●	●
Water System	City of Preston, IA		●	●	●	●	●	●	●	●
Water System	City of Miles, IA	●		●		●	●		●	●
Water System	City of Cuba City, WI	●	●	●	●		●	●	●	●
Water System	City of Bernard, IA	●	●	●	●	●			●	●
Water System	City of Luxemburg, IA	●	●	●	●	●		●	●	●
Water System	City of Maquoketa, IA					●	●		●	●
Water System	City of Oxford Junction, IA	●	●		●	●	●	●	●	●
Water System	City of Andover, IA	●	●	●	●	●		●	●	●
Water System	City of Bellevue, IA	●	●	●	●	●	●	●	●	●
Water System	City of Calamus, IA	●	●	●	●	●	●	●	●	●
Water System	City of Castalia, IA					●	●		●	●
Water System	Diamond Eagle Village, McGregor, IA		●						●	●
Water System	City of Dyersville, IA	●	●	●		●	●	●	●	●
Water System	City of Fayette, IA		●		●	●		●	●	●
Water System	City of Goose Lake, IA	●	●	●	●		●		●	●
Water System	City of Guttenberg, IA		●	●	●	●	●		●	●
Water System	City of Ionia, IA	●		●	●		●		●	●
Water System	City of Marquette, IA	●	●	●	●	●		●	●	●
Water System	City of Onslow, IA	●	●			●			●	●
Water System	City of Peosta, IA	●	●	●	●	●	●	●	●	●
Water System	Plum Creek Golf Course, Preston, IA		●		●	●			●	●
Water System	City of Sabula, IA	●	●	●	●			●	●	●
Water System	City of Sinsinawa Mounds, WI	●	●	●	●		●		●	●
Water System	Turkey Valley Comm. School District, Jackson Junction, IA		●		●				●	●
Water System	Vernon Water Company, Vernon, IA	●	●		●	●			●	●
Water System	City of Volga, IA	●	●	●	●	●	●	●	●	●

FIRM PROFILE

Established in 1999, Enviro***NET***, Inc. is a unique corporation comprised of a network of nine seasoned professionals who provide environmental and engineering services specific to risk assessment and risk management. This network includes engineers, hydro-geologists, geo-physicists, technical program managers, geo-technical engineers, economists, & others with expertise in multiple disciplines. We have teamed successfully with IIW in the past, and with other local regional and national engineering and consulting firms.

Clients include municipalities, developers, federal munitions plants (Rock Island Arsenal and Iowa Army Ammunitions Plant), manufacturers, private sector property owners, U.S. Fish and Wildlife, HUD, DOT, IDOT, construction firms, demolition firms, engineering firms and those involved in every facet of real estate transactions.

Enviro***NET*** is routinely audited and re-certified by Department of Transportation as a capable contractor for Iowa and Illinois. We are a Woman-Owned Business (WBE), and certified Small Business Enterprise (SBE) through the Small Business Administration. EnviroNET works regularly through federal government contracting procedures and provides services to many different agencies, including the US Army, US Navy, USACE and US Fish & Wildlife.

Principal and President of Enviro***NET***, Ms. Molly Arp Newell, is a Professional Geologist (PG) a Certified Hazardous Materials Manager (CHMM), and Licensed Asbestos Inspector with 28 years of professional experience in environmental and geological sciences. She is experienced with multi-party transactions and re-development projects, especially in Illinois. Molly began her career with a Fortune 100 company working as a reservoir engineer and environmental compliance officer in US and UK oil fields. In 1986 Molly applied her expertise to environmental engineering, working as a technical writer for EPA in Washington D.C. developing Preliminary and Expanded Environmental Site Assessments guidance documents for the EPA's Regional offices.

Enviro***NET***'s team includes Roger Geiken, P.E. P.L.S, who offers extensive local and regional experience in designing, bidding and constructing water systems projects. As a former municipal engineer for many villages and townships, Roger has also designed water main operation systems including pump stations, lift stations, water treatment systems, preventive maintenance programs and on-going service support as needed.

OFFICE LOCATION

1225 East River Drive
Suite #130
Davenport, IA 52803-5752
P. 563-323.2262

www.environetmidwest.com

FIRM PROFILE

OFFICE LOCATIONS

127 A West 76th Street
Davenport, IA 52806
P 563.823.0192

4155 Pennsylvania Avenue
Dubuque, IA 52002
P 800.556.4491

www.iiwengr.com

IIW, P.C., headquartered in Dubuque, Iowa, has been providing creative and innovative solutions to our clients since 1982. Employee-owned since 1999, our success is based on our people and their client-centered approach to their work. We have 74 employees offering expertise in architecture; civil, environmental, municipal, structural, and transportation engineering; land surveying; and construction services.

Together we provide solutions. At IIW, our mission is to provide solutions that meet your needs, not ours. We are a relationship-driven firm—we work "together" with our clients to deliver responsive, innovative, and practical solutions. Our core values demonstrate sincere care and appreciation for our craft, our clients, our employees, and our communities.

- **Expertise:** Inspiring possibilities and creating valuable solutions
- **Trust:** We build trust every day
- **Actively Engaged:** We like what we do and who we do it with
- **Community:** Mutual respect, connected, responsive leadership, accountability, and loyalty
- **Growth:** Relentless pursuit of opportunity, driven by passion

We are committed to our core values. It drives our culture, earning trust to reinforce relationships, accepting challenges to expand capabilities, and providing value-based outcomes.

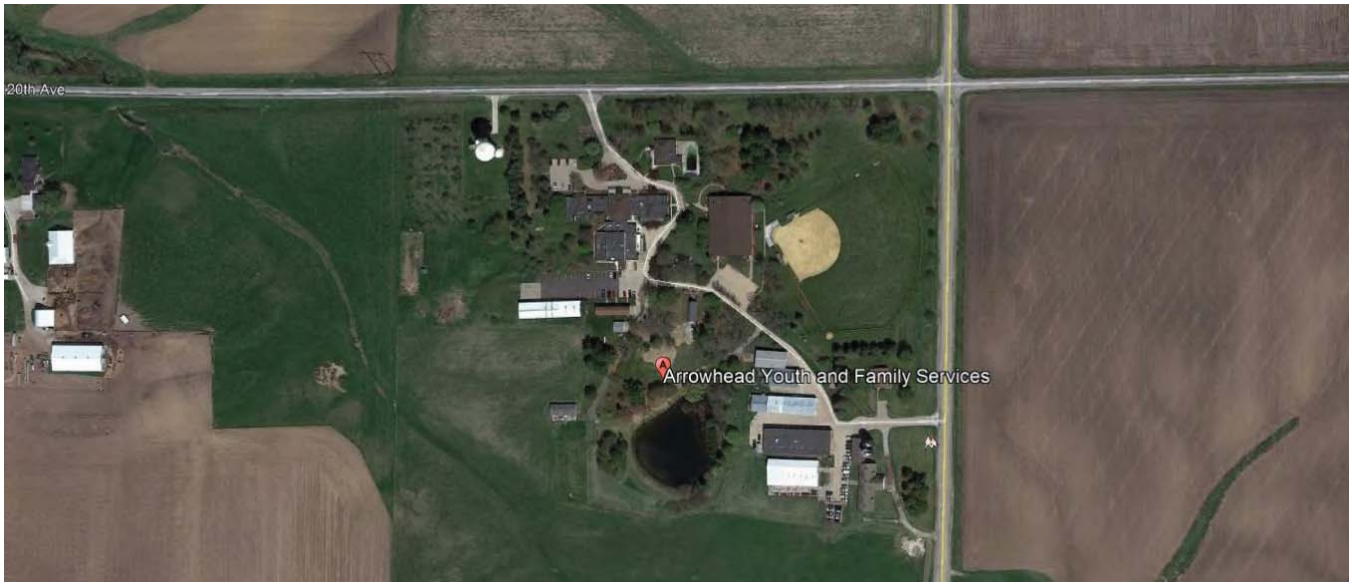
Client Experience We value our client relationships and it is important to continuously improve our ability to meet your needs. We have implemented a Client Experience Quality Assurance program to better serve your needs. Ask us about the program and how it works.

We understand that a design solution is only as good as its implementation. We assign experienced professionals as project managers to provide effective and respectful leadership to provide the best Client Experience possible. Our project managers understand that proper planning and communication are critical to deliver the project ahead of schedule and within budget.

QUALIFICATIONS

ARROWHEAD YOUTH & FAMILY SERVICES WATER MAIN EXTENSION

Coal Valley, Illinois



ARROWHEAD

ACADEMY • RESIDENTIAL • OUTREACH

EnviroNET's Roger Geiken worked with Arrowhead Youth and Family Services to identify solutions for their independently operated water supply system. They were experiencing operational and reliability issues, which led to a request for a connection to the Village of Coal Valley's water system. During the same timeframe, the Village wanted to expand its' system south of 113th Avenue to address anticipated development in the same area. A cost sharing agreement was negotiated and a routing plan developed, which addressed the concerns and goals of both parties.

The project, completed on time and on budget, included the design and construction of 1500 feet of 12 inch water main, the addition of a meter controlled "pace pump" at Arrowhead's facility, and the negotiation and coordination with a local landowner to obtain necessary easements to make the project viable.

PROJECT SUMMARY

Cost: $225,000

Date: 2000

Reference: Leonard Brackenvelt
Former Maintenance Supervisor

Village of Coal Valley
Village Hall
900 1st Street
Coal Valley, Illinois 61240

Team: Roger Geiken

ELEVATED WATER STORAGE TANK

Silvis, Illinois

EnviroNET's Roger Geiken, who at the time was working as the Silvis, IL City Engineer, led the design and construction of a new 400,000 gallon elevated water storage tank. The construction of the spheroidal shaped tank established a dual pressure system, providing the storage, fire flows, and appropriate pressure for residential and commercial growth, that was anticipated south of the bluff area of Silvis. This project was key to the development of the Twin Oaks Shopping area, the TPC Deere Run Golf Course and Club and the growth and expansion at the Illinois Hospital campus.

Later associated projects included assisting the City with freeze-up prevention measures, generating income for the City by working with a major cell phone service provider to place equipment on the elevated tower, and the repainting of the tank in 2013 with a golf ball motif. The tank received national attention in 1994 through a Tank of the Year competition sponsored by Tnemec who included it in their national calendar and has been often featured over the years through media coverage of the John Deere Classic golf tournament.

PROJECT SUMMARY

Cost: $400,000

Date: 1994

Reference: Jim Grafton
City Administrator
City of Silvis
Silvis City Hall
121 11th Street
Silvis, Illinois, 61282
(309) 792-9181

Team: Roger Geiken

WATER SYSTEM STUDY STUDY & CONSTRUCTION OF ELEVATED STORAGE TANK

Colona, Illinois

The City of Colona provides water services to a growing Quad Cities area community. EnviroNET's Roger Geiken worked with the City to study overall water system needs, map the City's existing system, and assess future system expansion. The system-wide study resulted in a recommendation of a new elevated tank located in the Level Acres subdivision, an area recently annexed by the City. The planning, design, and construction of a new 400,000 gallon spheroidal shaped elevated tank was completed in 2006 in conjunction with key 12-inch water main system tie-ins, allowing the City to remove outdated hydro-pneumatic tanks from service.

Roger was instrumental in the City's ability to obtain funding for this project through the State of Illinois and continued to work closely with the City to assess and address storage needs, fire flows and issues with maintaining chlorine residuals during warm weather periods.

PROJECT SUMMARY

Cost: $850,000

Date: 2003-2006

Reference: Danny McDaniels
Former Mayor

Rick Crew
Former Public Works Director

City of Colona
Colona City Hall
100 E 9th Ave
Colona, Illinois 61241
(309) 792-0571

Team: Roger Geiken

WATER MAIN IMPROVEMENTS

Galena, Illinois

The City of Galena's proposed Water Main Improvements Project includes the replacement of deteriorated and undersized mains in a targeted neighborhood within its water distribution system. The existing water mains, which service a good number of primarily residential customers, range in size from 4 inch to 10 inch diameter. Some of the problems with the existing water mains considered in this project are that they do not meet the minimum sized water main requirements for code compliance, include a number of dead-end mains and have experienced multiple breaks to where they are beyond repair.

The proposed Water Main Improvements Project entails focusing on a 12-block area, replacing the deteriorated and undersized mains with approximately 4275 LF of new 10 inch water main, along with approximately 325 LF of 6 inch water main. The proposed 10 inch and 6 inch water main will be looped to provide improved water quality, pressure and flows, while mitigating chances of freezing the lines.

IIW and the City of Galena developed the project after modeling Galena's entire water system and completing a needs assessment. Galena's water system consists of 4 pressure zones, 2 booster stations, 4 elevated storage tanks, 7 pressure reducing stations and approximately 28 1/2 miles of water main. Some of the water main, serving a population of about 3,500 people, is from the original water system constructed in the 1880's.

PROJECT SUMMARY

Cost: $1,200,000 (Estimated)

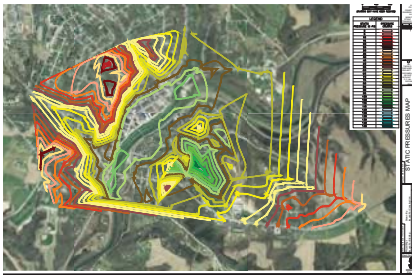
Date: 2019

Reference: Andy Lewis
City Engineer
City of Galena
P.O. Box 310
Galena, Illinois 61036
(815) 777-1050

Team: Geoffry Blandin
Christopher Becklin
Bryson Winsky

WATER SYSTEM STUDY REPORT

Galena, Illinois



The City of Galena's water system is divided into four pressure zones, including one pressure zone divided by crossings at the Galena River. All three active City wells are located on the west side of the Galena River. There are three water mains crossing the Galena River at separate locations—this is the only way to convey water to the east side of the river.

2015

In 2015, IIW was hired to analyze the impacts on their water distribution system when one of their water mains crossing the river was indefinitely taken out of service. IIW built a skeletonized hydraulic model in WaterCAD® to analyze the two pressure zones. The analyses shed light on the adequacy of the remaining river crossings under both normal and fire flow scenarios in the present and future, and gave recommendations on how to best plan to ensure system reliability in the future, including developing a new water supply and increasing capacity of aging pipeline infrastructure. IIW provided the City with a plan to achieve their goal of ensuring adequate fire protection for all parts of the community. The first phase of the plan is to be constructed this summer.

2018 & 2019

In 2018, the City asked to extend the study performed in 2015 to answer the following question."Do we need to perform expensive maintenance on an old water tower or can we eliminate the water tower and combine pressure zones?"

IIW is currently building and validating a city-wide model of all four pressure zones to answer their question. The model will assist in delineating the new pressure zone boundaries. Furthermore, the model will give insight on how the entire system will operate under normal and fire flow scenarios.

PROJECT SUMMARY

Cost:	N/A Currently Analyzing Water System
Date:	2019
Reference:	Andy Lewis City Engineer City of Galena P.O. Box 310 Galena, Illinois 61036 (815) 777-1050
Team:	Marc Ruden Eldon Schneider Bryson Winsky

ROOSEVELT STREET WATER TOWER

Dubuque, Iowa

The City of Dubuque's water system is comprised of nine pressure zones located within the Mississippi River Valley and adjacent bluffs. The northern section of Pressure Zone 2 has low pressure. Zone 2 serves customers located on a river bluff that varies significantly in elevation. As development has expanded to the north to higher elevations, pressures have decreased. A previous study had recommended raising pressures by constructing a taller water tower located at the intersection of Roosevelt Street and Sky Blue Drive. The recommendation included installing 16 Pressure Reducing Valves (PRV) to protect infrastructure from high pressures.

As part of the project, the City requested a hydraulic model of their entire distribution system. The main purpose of the model was to verify the recommendations of previous reports before proceeding with the design of the Roosevelt Street Tower. IIW built a city-wide hydraulic model and ran scenarios based on recommendations from previous studies. Using the model, the IIW team was able to reduce the number of PRVs from 16 to 2.

After the modeling, IIW designed the water tower, distribution piping, and two pressure reducing valve stations. One challenge during design was locating the PRV stations. The areas where the PRV stations were to be located had narrow right-of-ways. Working closely with water operations and maintenance staff, IIW was able to locate one PRV station with the entrance outside of the roadway and the equipment removal hatch within the roadway. The other PRV was located in a piece of a gravel driveway owned by the City. The locations will provide easier and safer access for maintenance rather than being located in the middle of the road.

Another important part of this project has been community engagement since the new tower is being located in a developed residential area. IIW and City Water Staff held an open house for the public to keep them informed. IIW provided a rendered 3D animation of the proposed tower. It answered a lot of questions by giving citizens a good visual of how the water tower will look once completed.

The project is currently in the construction phase and is on schedule to be completed by November, 2020.

PROJECT SUMMARY

Cost: N/A
Currently in Bid Phase

Date: 2019

Completion: On Schedule

Reference: Denise Ihrig
Water Dept. Manager
City of Dubuque
1902 Hawthorne Street
Dubuque, Iowa 52001-1416

Team: Marc Ruden
Christopher Becklin
Eldon Schneider
Bryson Winsky
Timothy Tranel
Lynn Neal
Robin Walter

CONSULTANT PERSONNEL

Roger L. Geiken, P.E., P.L.S.

Project Manager & Senior Engineer

Roger has over 39 years of continuous experience as the designated City Engineer for the City of Silvis, Illinois and has worked with other local communities as their City Engineering representative as well. He is well-versed in community related issues and is well-qualified to work together with City Councils, Village Boards and other groups to address issues that are unique to municipalities.

He has a 30-year working relationship with the Principal of EnviroNET, Inc., going back to 1989 when both worked at Beling Consultants in Moline, Illinois. He is well-qualified to certify and "seal" engineering and land surveying documents and is well-versed in water system related projects. He brings considerable design, specification, permitting, contract management, construction observation and inspection experience to the project team.

Roger has conducted public informational meetings and has interacted with the public on numerous projects helping to obtain local consensus and project support. He has attended and participated in over 3,000 City Council/Board Meetings over his career, making him well qualified to team with the Village of Coal Valley on this water system improvement project.

REGISTRATIONS

Professional Engineer: Illinois, Iowa

Professional Land Surveyor: Illinois, Iowa

EDUCATION

Bachelor of Science in Civil Engineering, Iowa State University

SPECIAL QUALIFICATIONS

Local Municipal Engineering:
39+ years with City of Silvis, IL
25+ years with Orion, IL
20+ years with Colona, IL

Experience with Regulatory Compliance Requirements for Drinking Water Supply Standards, Permitting, Grants, & Loans

Experience with TIF Districts / Enterprise Zones / Municipal Annexations

Significant Experience in Local Water System Projects

Elevated Water Tank Design & Construction
- Silvis, Illinois - 400,000 Gallon Tank
- Colona, Illinois - 400,000 Gallon Tank
- Frentress Lake, Illinois - 150,000 Gallon Tank
- LeClaire, Iowa - 500,000 Gallon Tank
- DeWitt, Iowa - 250,000 Gallon Tank

Ground Storage Tank Design & Construction
- Colona, Illinois - 150,000 Gallon Tank
- Silvis, Illinois - 175,000 Gallon Tank
- Orion, Illinois - 100,000 Gallon Tank
- Silvis Heights Water Corp. - 100,000 Gallon Tank
- DeWitt, Iowa - 250,000 Gallon Tank

Water Tower Re-Painting
- Orion, Illinois
- Silvis, Illinois
- Colona, Illinois
- Durant, Iowa
- Dewitt, Iowa

High Service/Booster Pumping Stations
- Orion, Illinois
- Silvis, Illinois (3 Projects)
- Colona, Illinois
- University of Iowa
- Dewitt, Iowa

Water Supply Wells
- Silvis, Illinois - Wells #7, #8, #9, #11, #12, & #13 (Currently in Progress)
- Colona, Illinois – Wells #3 & #4
- Frentress Lake, Illinois – Well #1
- Princeton, Illinois – Well #5

Complete Water System Studies & Distribution System Analysis
- Silvis, Illinois
- Colona, Illinois
- Orion, Illinois
- LeClaire, Iowa
- Rockton, Illinois

Standyby Power Generation
- Silvis, Illinois
- Colona, Illinois

Water Main Design & Construction
- Silvis, Illinois - 15,000 ft.
- Colona, Illinois - 7,500 ft.
- Orion, Illinois - 5,000 ft.
- Arrowhead Ranch (Coal Valley)
- University of Iowa - 5,000 ft.

REGISTRATIONS

Professional Engineer: Illinois, Iowa, Minnesota

EDUCATION

Bachelor of Science in Civil Engineering, Iowa State University

Masters of Science in Civil Engineering Specializations in Geotechnical & Civil Engineering Materials, Iowa State University

Geoffry T. Blandin, P.E.

IIW Team Leader

Geoffry has over 20 years of extensive experience working with municipal clients, including serving as City Engineer for the City of DeWitt, Iowa. Geoffry is an experienced roadway and utility designer and has significant experience in the design and project management of water and wastewater treatment projects, bridges, trails, and traffic engineering projects. Prior to joining IIW, he performed geotechnical evaluations and design. Geoffry also has expertise in construction inspection, drainage design, planning of streets, water systems and wastewater collection systems. He has managed projects with various funding sources, including DOT, DNR, CDBG, ARRA, and EDA.

> Veterans Memorial Parkway, Davenport, IA, Iowa DOT # STP-U-1827(674)--70-82
Served as Project Manager overseeing and coordinating the efforts of the bridge and roadway design teams during the design of this 3/4+ mile, 4-lane roadway. Features of the design include a median bioswale, 262' prestressed beam bridge, 10' wide PCC trail, 5' wide PCC sidewalk, and associated aesthetic features. In his role as Project Engineer, Geoffry lent his expertise to the design of the pavement and storm water runoff mitigation features. The project required coordination of the needs of the City of Davenport, Iowa DOT, Iowa DNR, USACE, and various subconsultants.

> Water System Improvements, Anamosa, IA
The project consisted of providing engineering and design services for the construction of two water supply wells, a 750,000 gallon water storage reservoir, water works pumping facility, and a new well house. This project also included the design of the well pumps, booster pumps, process piping, chemical storage and equipment for water treatment, water mains from the two wells and extensions to tie into the existing water distribution system for the Anamosa Penitentiary, and the heating and ventilating work associated with the buildings.

> Clinton Regional Development Lincolnway Railport, Clinton, IA
Served as Project Manager and Engineer of Record, providing the design and coordination of the 12,000± track feet of rail constructed to connect the Union Pacific Railroad (UPRR) to the City of Clinton's 500 acre industrial park. Project coordination included meeting the needs of the City of Clinton, Clinton County, UPRR, Iowa DOT, Iowa DNR, and the sub-consultants involved on the project over the course of the four contracts completed to date. Design elements of the project include wetland and stream mitigation, drainage design including two rail bridges, rail/road crossings, and a gleyed soil liner system.

> Lakewood Estates, Davenport, IA
Served as the Project Manager and Project Engineer overseeing the design and construction of additional cells to bring this wastewater treatment plant into regulatory compliance. Work included the design of the influent lift station, controls and associated electrical system.

> Mid-American Energy LNG Sub Impoundment, Bettendorf, IA
Served as Project Manager and Project Engineer for this storm water lift station. Lift station design included the construction of a custom CIP structure, including controls, electrical system and a triplex pump configuration with each pump sized to provide a minimum of 350 GPM flow.

> Geotechnical Consultation, Various Locations
Ongoing geotechnical and materials consulting activities provided for most departments within IIW. Consultations include amendment rates for bentonite incorporation into lagoon liners, fly ash or cement incorporation into subgrades, options for shoring, sheeting and foundation, determination of soil properties for design, and interpreting testing results.

Christopher A. Becklin, P.E.

Project Engineer

Christopher's experience consists of various types of municipal projects from the planning phase through construction. He is responsible for the design of many of the projects that he works on, assisting with plan production, quantity calculations and cost estimating, report and permit preparation, utility coordination, and construction phase oversight. He has experience with design of water distribution systems, sanitary sewer collection systems, municipal streets.

REGISTRATIONS

Professional Engineer: Iowa, Wisconsin

EDUCATION

Bachelor of Science in Civil Engineering, University of Wisconsin-Platteville

> Roosevelt Street Water Tower, Dubuque, IA

IIW is working with the City of Dubuque to design and construct a water tower which will address low pressure in a section of their existing distribution system. The new water tower requires splitting the existing pressure zone into two pressures. This required IIW to work extensively with the City to delineate the boundary of the new pressure zone. The project is broken into two construction contracts. One contract is for installation of new tower and associated yard piping. The other is for two pressure reducing valve stations and associated water main improvements. As a project engineer, Christopher was in charged with designing the PRV stations and water main improvements. This included the preparation of plans, specifications, cost estimates, and securing construction permits.

> Water System Improvements 2017, Dubuque, IA

The City of Dubuque purchased the Vernon Township and Barrington Lakes water systems from CIWA. The City wished to construct a new pumping facility to allow the City to pump water from their existing distribution system to the newly purchased water systems. The project consisted of a booster pump station with two 125-HP booster pumps with the capability of adding an additional three booster pumps in the future. Included in the project was the installation of 15,800 LF of water main to connect the systems along with the installation of two pressure control stations. Christopher assisted the Engineer of Record throughout the planning, design, and construction of the project.

> Bunker Hill Pumping Facility, Dubuque, IA

The City of Dubuque identified that the existing Bunker Hill Pumping Facility which had been constructed in 1870s with an addition completed in the 1920s needed to be replaced to meet current City and IDNR standards. The project consisted of the demolition and construction of a new 30'x40' block and brick building. Construction of the new pumping facility included 125 HP booster pumps, process piping, electrical, plumbing and mechanical components. The project also included the addition of standby power along with various site work including: PCC parking and driveway, site grading, fencing, seeding and additional water main installation. Christopher assisted the Engineer of Record throughout the design and construction of the pumping facility.

> Water Treatment Facility (Radium Removal), Bellevue, IA

Christopher was the Project Engineer for the design of the radium treatment facility and also assisted with construction administration for the project. The project consisted of the construction of a water treatment facility for the removal of radium from the City's well water from both their wells. The project included the installation of raw water mains from both existing well water works buildings to the proposed water treatment facility. The radium will be removed utilizing the addition of an HMO solution and vertical pressure filters. The treatment facility also includes additional chemical injection, water booster pumps, an office, restroom, backwash tank for the pressure filters, standby generator, and other various site work.

Lynn D. Neal

Engineering Technician

Lynn has over 33 years of experience in design and computer-aided drawing technology, using AutoCAD and Civil3D. She has been closely involved in the design of sites, utilities, and process piping. Assisting the project engineer, Lynn specializes in the design of treatment projects, and has significant experience with both water and wastewater treatment facilities. Lynn will focus primarily on plan production.

EDUCATION

Associates of Arts in Architectural Drafting, Kirkwood Community College

> Water System Improvements, Anamosa, IA

The project consisted of providing engineering and design services for the construction of two water supply wells, a 750,000 gallon water storage reservoir, water works pumping facility, and a new well house. This project also included the design of the well pumps, booster pumps, process piping, chemical storage and equipment for water treatment, water mains from the two wells and extensions to tie into the existing water distribution system for the Anamosa Penitentiary, and the heating and ventilating work associated with the buildings.

> Water Treatment Facility (Radium Removal), Bellevue, IA & Water System Improvements (Radium Removal), Dyersville, IA

Lynn served as the design technician for both the Bellevue and Dyersville radium removal Water Treatment Facility. Lynn assisted with project engineers for the project to produce detailed plans of the proposed improvements for both projects. Both projects included the addition of HMO with different filtering methods to remove the radium from the City's raw well water.

> Wastewater Treatment Facility, Fayette, IA

The City of Fayette operates their facility as part of a controlled discharge/continuous discharge for nitrogen ammonia control. This project consisted of aeration equipment replacement, headworks equipment replacement, and construction of disinfection and de-chlorination to meet stricter NPDES requirements. Lynn provided technical CADD services to develop construction/design drawings for the regulatory submittal and for bidding purposes.

> Wastewater System Improvements, Well Reservoir, & Pumping Facility, Sabula, IA

Sabula had subsurface groundwater contamination issues that required a new well system in addition to the demands on the system which required additional storage. This project included an evaluation of the current water distribution system, survey, design, and construction inspection of a new well, waterworks building, and 55,000 gallon reservoir. The new water works building houses the pumping equipment, process piping, and chemical addition equipment.

> Well Reservoir, Water Works Building, & Process Piping, Goose Lake, IA

This project includes the design of an 1165' deep well with well pump, 50,000 gallon bolted steel reservoir, and a water works building that houses the pumping equipment and chemical injection. IIW, P.C. assisted the City with an application for SRF Funding as a primary means to complete the project.

ADDITIONAL RESOURCES

In addition to the team members identified in this response, IIW offers many other staff members with extensive experience and expertise to support Coal Valley and the assigned project team.

ENGINEERING, LAND SURVEY, & CONSTRUCTION SERVICES QUALIFICATIONS

Name	Title	Years of Experience	Educational Degree	Project Management	Planning & Feasibility Studies	Agency Coordination	Public Involvement	Elevated Storage	Ground Storage	Booster Pump Pressure Reduction	High Service Controls	Pressure Zones	Water System Modeling	Water Distribution	Materials Testing	Construction Observation	Right-of-Way Plats	Surveying
Patrick Ready, P.E.	Municipal Engineer	25	B.S.	●	●	●	●							●		●		
James Bousley, E.I.	Municipal Engineer	30	B.S.	●	●	●	●	●	●					●		●		
Marc Ruden, P.E.	Municipal Engineer	20	B.S.	●	●	●	●	●	●	●	●	●	●	●		●		
Jonathan Lutz, P.E.	Municipal Engineer	26	B.S.	●	●	●	●							●	●	●		
Eldon Schneider, P.E.	Municipal Engineer	11	B.S.		●	●				●	●	●	●	●		●		
Andrew Goedken, P.E.	Municipal Engineer	8	B.S.			●	●							●	●	●		
Bryson Winsky, P.E.	Municipal Engineer	8	B.S.			●	●						●	●	●	●		
Craig Geiser, P.L.S.	Land Surveyor	22	B.S.	●													●	●
Steve Fuerst, L.S.I.	Land Surveyor	29	B.S.	●													●	●
John Tranmer, P.L.S.	Land Surveyor	35	B.S.	●													●	●
Mark Nicholas	Surveyor	15																●
Jeffrey Winter	Surveyor	35																●
Jeffrey Brandt, P.L.S.	Land Surveyor	18	B.S.						●	●							●	●
Christopher Huseman	Surveyor	24	B.A.															●
Timothy O'Brien	Materials Technician	42		●											●	●		●
Daniel Schlueter	Materials Technician	42													●	●		●
Steve Driscoll	Materials Technician	24													●	●		●
Luke Rupp	Materials Technician	14													●	●		●
Michael Busch	Materials Technician	13	A.S.												●	●		●

ANTICIPATED TIMELINE

ANTICIPATED TIMELINE FOR NEW ELEVATED TANK, ASSOCIATED WATER MAINS, & PUMPING FACILITIES

TASK DESCRIPTION	PLAN START	PLAN END
Planning, Design, & Permitting – Elevated Tank	11/15/2019	6/17/2020
Village of Coal Valley Receipt of Engineering Proposals	11/15/2019	11/15/2019
Select Consultant	11/15/2019	12/1/2019
Engineering Consultant Contract Completion	12/1/2019	1/16/2020
Evaluate & Confirm Tank Sizing with Village	1/16/2020	2/20/2020
Soils Investigation & Completion of Plans	2/20/2020	4/20/2020
Permit Submittal Docs/EPA Construction Permit Authorization	4/20/2020	6/17/2020
Bidding, Construction, & Contract Negotiation	6/18/2020	8/24/2020
Advertise Tank Project for Bids	6/18/2020	7/9/2020
Construction Contract Award by Village	7/10/2020	8/5/2020
Process Construction Contracts/Issue Notice to Proceed	8/6/2020	8/24/2020
Construction & Fabrication of Tank	8/25/2020	10/26/2021
Shop Drawings - Preparation, Review, & Approval	8/25/2020	10/26/2020
Fabricate Tank Components/Begin Tank Foundation	10/26/2020	2/26/2021
Erect Tank On Site	2/26/2021	6/26/2021
Paint Tank	7/1/2021	10/1/2021
Start-Up Phase	10/1/2021	11/15/2021
Tank Disinfection	10/1/2021	10/15/2021
Obtain Operating Permits from EPA	10/15/2021	11/5/2021
Place Tank Into Service	11/5/2021	11/15/2021
Planning, Design, & Construction – Water Main	2/20/2020	9/15/2021
Water Main Design	2/20/2020	7/20/2020
Water Main Out to Bid	1/6/2021	1/27/2021
Water Main Construction	3/15/2021	9/15/2021
Planning, Design, & Permitting – Pumps & Controls	3/20/2020	5/30/2021
High Service Pumping/Well Pump Design	3/20/2020	5/20/2020
High Service Pumping/Well Pump Out to Bid	1/6/2021	1/27/2021
High Service Pumping/Well Pump Construction	5/15/2021	9/15/2021
Project Close-Out	10/1/2021	12/30/2021

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