

insight • experience • results

STATEMENT OF QUALIFICATIONS

Storm Drainage Improvements



PREPARED FOR

City of Independence

City Hall

ATTN. MATTHEW R. SCHMITZ

331 1st Street E

Independence, IA 50644



February 16, 2024

Matthew R. Schmitz
City Manager
City of Independence
331 1st Street East
Independence, Iowa 50644

**RE: Statement of Qualifications
Storm Drainage Improvements in 812 3rd Street NW Area Project**

Dear Mr. Schmitz,

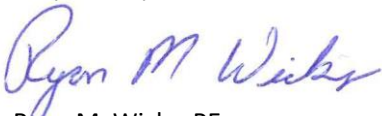
Fehr Graham is eager to help you with your Storm Drainage Improvements. Fehr Graham's mission is **to improve the quality of life for our clients in the communities where they live and work by providing collaborative, insightful, results-driven solutions**. We live and breathe our mission in our partner communities. We will do the same for the City of Independence.

When you work with us, you get a small firm feel with big firm capabilities. We are **highly responsive** to our clients. Our team is located near you and wants to be a partner with your community. We were founded in 1973 in the Midwest, and we have stayed true to **our roots**.

Our professionals will become **an extension of your team** to help you navigate the challenges and take advantage of opportunities **to improve the quality of life in your community**. Fehr Graham will partner with you and pursue the most effective, economical and sustainable solutions to complex problems that come with storm drainage. We will collaborate with the City to maximize resources and dollars for end-use solutions. We understand that not only is it all about the services we offer, but also all about how **our services are going to help you**. We are transparent and honest in all we do. We take pride in our work, and we won't let you down.

In the end, we want to learn about you and how we can meet your needs. We also understand that you're investing not only in our company but in our people. And we will make sure **your investment in us, and our people, is well worth it**.

Respectfully submitted,



Ryan M. Wicks, PE
Principal
rwicks@fehrgraham.com



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Who is Fehr Graham?

A quick internet search will show Fehr Graham provides engineering and environmental services. But who is Fehr Graham really? And how are we different?

IT ALL STARTS WITH OUR MISSION



To improve the communities where our clients live and work by providing collaborative, insightful, results-driven solutions.

To advance this mission, Fehr Graham's culture is driven by these Core Values:

WE BRING *value.*
WE build **TRUST.**
WE DREAM *big.*
WE OWN **IT.**
WE have **FUN.**

We Bring Value

It's easy to identify what an engineering firm does, but it's not always as easy to identify how a firm creates value. Regardless of project discipline, there are key drivers of value – select the best team, select the best solution and communicate, communicate, communicate. **Fehr Graham serves more than 100 communities** and has the experience to help the **City of Independence** choose the best solutions. We are consistently ranked by our clients as “highly responsive,” setting us apart from our competition.

We Build Trust

We strive to build trust each day through our interactions with clients and staff. We are eager to show the City of Independence what trust means to Fehr Graham.

Trust is our differentiator. We look to develop long-lasting, solid relationships with our clients – not simply serve as a task doer. We've done that for clients like Joe Taylor with the City of Center Point and Sarah Helle with the City of Hopkinton on strategic planning projects. We get to know our clients, how they work and their expectations. We will do the same for the City of Independence.

We Dream Big

We encourage our staff and our clients to dream big, and we like to dream big together. We ignore the word, “impossible,” as everything is possible when you free yourself to dream it. We encourage those around us to push forward and chase those dreams. We don't stop, and we certainly don't give up. Let's dream big together.

We Own It

We believe in and place a high value on responsibility by owning it and taking responsibility for our actions. Fate and destiny are terms we avoid. Instead, we making it happen. While we can't control the rain, we can own it and control whether we get wet.

We Have Fun

Studies show that when people are having fun, they work smarter, stay longer, maintain their composure in a crisis and take better care of the organization. We place a high value on having fun as it reduces stress, improves creativity and increases productivity. All these benefits are great for our staff, which adds value to our clients.

Our Approach

We have a proven method for successfully delivering engineering services. It starts with proper planning, continues with solid design engineering and excellent communication, and concludes with effective construction management. Our culture and approach to consulting is different. At Fehr Graham, our Core Values are key to developing long-term relationships with our clients. More than 80% of our business comes from repeat customers, which demonstrates that Fehr Graham is committed to our clients today and for the long haul.





Business Organization

History

Fehr Graham was founded in September 1973 by professional engineers Allen Fehr and Joseph Graham. The firm was established by the merger of these two individuals' practices established in 1965 and 1962, respectively. Today, we proudly serve our valued clients from 12 office locations: Aurora, Champaign, Freeport, Marion, Rockford, Rochelle, and Springfield, Illinois; Cedar Rapids, Manchester and West Union, Iowa; and Monroe and Sheboygan, Wisconsin.

Professional Staff

Our staff of 200 is comprised of a wide range of experts, including professional engineers, landscape architects, professional geologists, environmental scientists, safety professionals, engineers-in-training, professional land surveyors, community planners and development specialists, engineering and environmental technicians, field inspectors, grant writers, and support technicians and assistants. Our staff has hands-on experience and applicable registrations and licenses in their areas of discipline.

Organization

Fehr Graham is a Limited Liability Company. It is owned by Trilon Group. Its principals are:

- » **Mick Gronewold, PE**
- » **Joel Zirkle, PG**
- » **Noah Carmichael, PE**
- » **Matthew Johnson, PE, SE**
- » **Nate Kass, PE, PLS**
- » **Jason Stoll, PE**
- » **Seth Gronewold, PE**
- » **Todd Shankland, CPA**
- » **Ryan Wicks, PE**

Office Locations

ILLINOIS

Aurora

230 Woodlawn Avenue
Aurora, IL 60506

Champaign

1610 Broadmoor Drive
Champaign, IL 61821

Freeport

101 West Stephenson Street
Freeport, IL 61032

Marion

103 Airway Drive, Suite 3
Marion, IL 62959

Rochelle

515 Lincoln Highway
Rochelle, IL 61068

Rockford

200 Prairie Street, Suite 208
Rockford, IL 61107

Springfield

2160 South Sixth Street, Suite D-1
Springfield, IL 62703

IOWA

Cedar Rapids

200 5th Avenue SE, Suite 100
Cedar Rapids, IA 52401

Manchester*

221 East Main Street, Suite 301
Manchester, IA 52057

West Union

128 South Vine Street
West Union, IA 52175

WISCONSIN

Monroe

1107 16th Avenue
Monroe, WI 53566

Sheboygan

909 North 8th Street, Suite 101
Sheboygan, WI 53081



CONTACT

Ryan M. Wicks, PE
Principal
rwicks@fehrgraham.com

221 East Main Street, Suite 301
Manchester, Iowa 52057
563.927.2060
fehrgraham.com

*The Manchester office has served clients since 2000 and is comprised of five engineers.



Project Understanding and Approach

Project Understanding

Fehr Graham is familiar with stormwater challenges at the Independence Premium Foods site. In 2021, we completed a site visit to assess proposed paving and drainage improvements at the former Blue Buffalo facility. During our site visit, it became clear that the area's development over the years had blocked the previous stormwater route. We reviewed the data collected to consider potential site improvements to help us refine our project approach and design fee estimation. Our team has considered various solutions, including a sufficiently sized detention basin, below-ground detention similar to our design at the Buchanan County Health site, infiltration practices, a new stormwater diversion sewer to redirect water to the Wapsipinicon River, or a combination of smaller destination and a bypass storm sewer. Based on the information provided by Crawford Engineering in the request for proposal (RFP), extending the downstream storm sewer to the west end of 5th Avenue NW north of the Independence Premium Foods site is not feasible because of insufficient capacity. Any detention incorporated in the plan will impact land under private ownership, requiring easements or acquisition. Coordination with property owners will affect the potential area available for a stormwater detention design.

The key to our success

Your project aligns with our team's expertise, and we understand the importance of engaging with your staff to discuss conditions, potential challenges and unique aspects specific to your community.



Detailed Work Plan/Deliverables

Task 1: Data Collection

As you know, we cannot recommend a sound stormwater detention area alternative for City review until we know the site's characteristics, groundwater conditions and easements in more detail. This includes completing a field topographic survey, coordinating utilities, assessing right-of-way limits to identify potential easements or land acquisitions, and integrating information obtained from geotechnical borings. It also requires strong consideration of the infrastructure's constructability and the associated costs of the proposed solution. Engaging an engineer to design and bid this project rather than asking local construction companies to quote the work in RFP is essential to secure the most cost-effective and efficient solution.

Task 2: Coordination

The design element of this project is straightforward. Aside from the special considerations mentioned above that must be addressed, this is a relatively simple design package. However, the challenge will be ensuring we exceed expectations by coordinating with the stakeholders and the affected private utilities. Working to meet the desired timeline to go to bid is crucial. The RFP indicates an aggressive timeline that will require starting immediately. We have deep experience with projects of this nature and staff readily available to begin work on your project.

Task 3: Alternatives

We can achieve the project goals and meet regulatory requirements in several ways. We will prepare conceptual-level alternatives along with the Engineer's Estimates of Probable Costs for up to three routes. With this information, we will meet with the City and other stakeholders per the City's preference to identify, discuss and analyze them for ease of construction, impact and cost-effectiveness.

Task 4: Regulatory Requirements

Once we determine our direction, we will assess regulatory requirements to bring the plan to fruition. As we anticipate that the project will disturb more than one acre and include a new outlet to the Wapsipinicon River, it is anticipated that a National Pollutant Discharge Elimination System General Permit No. 2 is required and that a joint application will need to be submitted to the Iowa Department of Natural Resources and U.S. Army Corps of Engineers for coverage under a State Flood Plain permit and Nationwide permit. A city floodplain permit is also anticipated.



Task 5: Deliverables

With coordination complete, an alignment/alternative selected, and regulatory requirements defined, our team will complete the necessary deliverables:

- » Contract plans, specifications and bid documents.
- » Engineer's estimate of probable cost.
- » Permit applications.

Progress drawings will be provided to the City for review during milestones as requested in the RFP and as identified on the project timeline. In addition to hard copies, an electronic version of the CADD files will be provided for City use.

A Professional Engineer will sign and seal the plans. A constructability review of the project plans will be completed by one of our engineers not assigned to the design project.

Project specifications will follow the Iowa SUDAS with project supplemental specifications in the plans. Our team will then host a digital bid letting through Quest CDN and provide a review of the bids and a letter to recommend the award.

Task 6: Construction

We will continue to support the City and its project through the construction phase with active participation in the project administration through the coordination of the preconstruction meeting, review of contractor submittals, construction layout, preparation of pay estimates and if needed, change orders, project observation, weekly city updates, final project review and preparation of record drawings.



Storm sewer study helps develop long-term plans

HOPKINTON, IOWA



CLIENT CONTACT

Sarah Helle
City Clerk
563.926.2181
cityhopk@iowatelecom.net

PERIOD OF SERVICES

September 2018 to August 2021

CONTRACT VALUE

\$27,500

FUNDING

Surface Transportation Program-Urban

PROJECT TEAM

PRINCIPAL

Ryan Wicks, PE

ENGINEER

Sam Ertl

ENGINEERING TECHNICIAN

Jacob Kaiser

SENIOR ENGINEERING TECHNICIAN

Joe Stricker

AT A GLANCE

- » Analyzed flow patterns, community growth projections.
- » Produced hydrology and hydraulic storm models.
- » Developed and proposed solutions.
- » Presented to community members and City Council.
- » Provided cost estimates.
- » Completed USDA preliminary engineering report.

The small, but mighty City of Hopkinton, Iowa, with a population of fewer than 600 has drainage issues throughout its 400 acres. Because it lost trust in a former engineering firm, the City has attempted to address these issues alone for decades with short-term fixes and little reward. City officials turned to Fehr Graham, asking our team to study the land with a broader vision to implement a long-term solution in the best interest of the community.

Plan develops through community feedback, study

Working closely with the City and its residents, our team developed a cohesive and comprehensive plan to address stormwater issues. We worked on-site using lidar technology, aerial photos and record drawings to study areas of concern. Fehr Graham reviewed and considered growth projections. We held regular steering committee meetings to listen to drainage concerns.

We also created cost estimates and wrote a United States Department of Agriculture (USDA) preliminary engineering report outlining improvement needs that will be submitted for funding.

Finding the right solution

Since intakes were not properly sized according to Iowa Statewide Urban Design and Specifications standards, they aren't carrying enough water away from the streets. We developed plans to capture and divert the upstream stormwater to save downstream infrastructure from being torn out and upsized. Our plans resize intakes and pipes for the 10-year storm, which is defined as a flood that has a 10% chance of occurring in any given year. This will increase capacity tenfold to keep water away from streets and out of yards.

Five priority projects, including revised and refined preliminary solutions, were developed to help mediate a majority of drainage issues and will be recommended to the City. The plan includes two detention basins that will store the 10-year developed stormwater and runoff and release the water slowly to make it more manageable.

With the suggested changes, Hopkinton residents will have improved water quality and less flooding. A big plus from this project was earning City officials' trust. The City and Fehr Graham will continue to work together to improve its infrastructure.



Stormwater drainage management meets city's goals

GARNAVILLO, IOWA



CLIENT CONTACT

Melissa Atkinson
City Administrator
563.964.2331

PERIOD OF SERVICES

November 2017 to October 2020

CONTRACT VALUE

\$90,000

CONSTRUCTION VALUE

\$360,000

FUNDING

CDBG
IDALS

PROJECT TEAM

PRINCIPAL

Ryan Wicks, PE

ENGINEERING TECHNICIAN

Amy Cabalka

LAND SURVEYOR

Adam Recker, PLS

Undersized storm sewer, poor alignment and clay soils were causing flooding and drainage problems in the City of Garnavillo, Iowa. A primary drainage path flows through a residential area carrying flows from the state highway and large segment of the City's business district. The regular flow and clay soils created conditions which stayed wet, making yard maintenance difficult. Poor alignment and high velocities discharging from undersized culverts also increased soil erosion. City officials hired Fehr Graham to find solutions to better manage the stormwater runoff and help secure funding to pay for the fixes.

Our team suggested rain gardens and permeable pavers to the City Council and Public Works Department. With help from Fehr Graham, the City was awarded \$210,000 from a Community Development Block (CDBG) grant and \$80,000 from an Iowa Department of Agriculture and Land Stewardship (IDALS) grant. Both grants were reserved for water quality improvements. City officials were concerned about how long the permeable pavers would hold up with routine semitrailer traffic carrying heavy loads. Our team shared information on the pavers as well as personal experience with their installation which reassured the City that the pavers could handle the semitrailer weight.

Our project design included two rain gardens, a block with permeable pavers and improved downstream conveyance. Open drainage channels were also reshaped to address high velocities and erosion. Fehr Graham worked closely with the City and Amy Bouska, the area Urban Conservationist with IDALS, to ensure water quality was maintained and the City's goals were reached.

The project improved water quality and filtration and decreased soil erosion. Property owners can now enjoy their backyards without worrying about flooding.

AT A GLANCE

- » Assisted with grant applications.
- » Coordinated with local and state agencies.
- » Designed improvements.
- » Prepared project easement plats.
- » Prepared plans and specifications.
- » Assisted with bidding the project.
- » Provided construction phase survey and observation.



Client Contact

Sarah Helle
City Clerk
563.926.2181
cityhopk@iowatelecom.net

Project Team

Ryan Wicks, PE | Principal
Samuel Ertl | Staff Engineer
Amy Cabalka | Associate Engineering Technician



Downtown flooding remedied with storm sewer upgrade

Period of Services: March 2022 – May 2022

The City of Hopkinton faced downtown flooding issues because of its outdated and undersized storm sewer system, which serves as the primary artery for the middle section of the city. The City hired Fehr Graham to conduct a comprehensive citywide storm sewer study. Shortly after completing the study, significant rain overwhelmed the storm sewer, resulting in flooded streets above the curb and gutter and causing water to breach an intake, flow beneath a sidewalk, and pose safety concerns for the sidewalk and adjacent retaining structures.

Fehr Graham responded swiftly, completing plans and securing storm sewer easements within approximately two months, allowing the project to proceed to the bidding phase. We developed plans to remove two small intakes and replace an undersized storm sewer, filled with sediment, with three intakes and larger storm sewer pipes. This upgrade aimed to mitigate the flooding risk. Notably, the new storm sewer intercepts a critical storm sewer artery, thus alleviating pressure on the system serving the other parts of town.



Client Contact

Joe Taylor
City Administrator
319.849.1508
cityadministrator@centerpointia.com

Project Team

Ryan Wicks, PE | Principal
Adam Recker | Land Surveyor



Washington Street Storm Sewer Improvements

Period of Services: December 2021 – February 2023

When it came time to address local flooding issues, the City of Center Point trusted its long-time partner, Fehr Graham, to address its undersized and damaged storm drainage system. Our team took charge from the initial design phase to oversee construction, providing comprehensive support throughout the duration of the project. We developed plans to install new intakes and realign the storm sewer, which was executed seamlessly. The outdated infrastructure east of Franklin Street was replaced with a larger storm sewer line, which now extends westward toward Franklin. Rather than crossing Franklin, the upgraded storm sewer route follows a southward path along the east side of Franklin Street, ultimately discharging into Apple Creek.



Staffing and Availability

As we've grown from a one-office firm with five people in one office to 200 people in 12 offices, we've stayed true to our roots. While it was important to grow and tackle bigger and more challenging projects, we knew it was more important to develop and maintain personal relationships with our clients. We will support Independence with staff in our Manchester office.

We know you don't know us well yet. But if you talk with our clients in Manchester, Center Point, Winthrop, Jesup, Fairbank and Hopkinton, you'll hear how they value the personal attention they get from our staff and how much they appreciate our responsiveness. Ryan Wicks, PE, the Principal overseeing this project, and Lucas Elsbernd, PE, your Project Manager and direct point of contact, will be attentive to you throughout the entire process.

A proactive communicator, Lucas is organized, enabling him to coordinate with the City and contractors. He will also work with other Fehr Graham experts who will provide structure and guidance to the process. This approach is a cost-effective way to execute and manage the project.

The table details the team and their roles. In the next pages, you will learn more about our team and experience.

PROJECTED STAFF

Name	Project Role	Degree	Years of Experience
Ryan M. Wicks, PE	Principal	BS	25+
Lucas Elsbernd, PE	Project Manager	BS	20+
Nick La Rosa	Staff Engineer	BS	3+
Adam Recker, PLS	Land Surveyor	AAS	20+
Amy Cabalka	Associate Engineering Technician	AAS	9+



Scheduling

Fehr Graham is prepared to meet the schedule required by the City of Independence by staffing the project with dedicated personnel. We have the resources needed to provide exception services through this project.





Organizational Chart



PRINCIPAL
Ryan Wicks, PE



PROJECT MANAGER
Lucas Elsbernd, PE



STAFF ENGINEER
Nick La Rosa



CAD
Amy Cabalka



SURVEY
Adam Recker, PLS

Ryan M. Wicks, PE

Principal/Branch Manager



EDUCATION

B.S. in Civil Engineering
University of Iowa, 1997

PROFESSIONAL LICENSE

Professional Engineer
Iowa #16341, 2002
Michigan #6201311748, 2022

PROFESSIONAL ASSOCIATIONS

Partner of Maquoketa River Watershed
Management Authority

AWARD

Inspiring Iowan Award, 2018

Ryan Wicks works with multiple communities and developers to reimagine stormwater issues and find ways to correct them. His diverse skills include preparing drainage reports, addressing system conveyance to reduce the social and environmental consequences of flooding, reviewing water quality concepts and developing project plans. His innovative solutions include site-specific and regional detention basins, grade stabilization structures, conventional storm sewer, bioswales, rain gardens and permeable pavement. Ryan teaches clients how water quality is improved with stormwater management. He shares inventive concepts – including constructed wetlands and saturated buffers – to generate large returns on investment.

Ryan helps secure project funding through the Iowa State Revolving Fund, Community Development Block Grant (CDBG), Iowa Department of Agriculture and Land Stewardship (IDALS). He works with local, county, state, federal and railroad agencies to secure permits. He leads public outreach campaigns to ensure transparency and highly successful projects.

DRAINAGE IMPROVEMENTS

City of Garnavillo, Iowa

Ryan led a team that reviewed and evaluated conditions in Garnavillo to help convey and maintain runoff from a significant waterway through a large, residential area. Instead of looking only at conveyance capacity, permeable pavers and rain gardens were incorporated with amended soils and subdrains to help the downstream segments. This supported infiltration and filtration of runoff water. Because the project team developed a plan where improvements would incorporate green infrastructure and made changes to the conventional storm sewer pipe, grants through IDALS and CDBG were awarded. Ryan led a public outreach campaign to educate and share information on how the green infrastructure improvements would function and be maintained.

SOUTH MADISON PARKING LOT

City of Manchester, Iowa

Ryan served as the Project Manager, leading a team of engineers to visualize the redevelopment of an entire block within the Central Business District. The team worked with project partners Community Savings Bank and the City to rethink the area covered entirely with an impervious surface. Along with redeveloping and enlarging the City parking lot, bioswale and permeable pavers were incorporated into the design to encourage infiltration and reduce the overall site runoff peaks, providing relief to the downstream storm sewer.

SRF GREEN ALLEY PROJECT

Dubuque, Iowa

STORMWATER DRAINAGE (FLOOD CONTROL)

Elma, Iowa

COMMUNITYWIDE STORMWATER DRAINAGE REPORT

Hopkinton, Iowa

COMMUNITYWIDE STORMWATER DRAINAGE REPORT

Center Point, Iowa

Lucas J. Elsbernd, PE

Senior Project Engineer



EDUCATION

B.S. in Civil Engineering
Iowa State University, 2003

PROFESSIONAL LICENSE

Professional Engineer
Iowa, #18968, 2008

PROFESSIONAL ASSOCIATION

Iowa Water Environmental Association

Lucas Elsbernd specializes in stormwater improvements, project development, budgetary estimation, survey information, design, specification review and construction management. He is a strong communicator, keeping his clients in the loop as projects progress. He is detail-oriented and enjoys all aspects of a project.

Lucas is skilled in site grading, storm sewer improvements, sanitary sewer lift stations, wastewater collection and treatment facilities, and water systems and treatment plants.

He has relationships with officials in the Iowa Department of Natural Resources (DNR) wastewater, water and floodplain sections, the Iowa DNR State Revolving Fund program, Community Development Block Grant program, United States Department of Agriculture Rural Development Program, the U.S. Corps of Engineers and local planning agencies.

STORMWATER QUALITY IMPROVEMENTS

City of Waukon, Iowa

Lucas worked with Waukon officials to identify stormwater quality issues and help secure Sponsored Project funding through the City's State Revolving Fund (SRF) wastewater loan. The project included the construction of a stormwater wetland, two permeable paver parking areas, a biotention cell and ditch check dams.

PERMEABLE PAVER ALLEY AND DRIVE

City of Winthrop, Iowa

Lucas helped Winthrop identify stormwater quality issues and secure Sponsored Project funding through the City's State Revolving Fund (SRF) wastewater loan. The project included converting a crushed rock drive and alley to a permeable paver system and installing an infiltration trench to collect runoff from the roof of a large commercial building.

DRAINAGE DITCH IMPROVEMENTS

City of Jesup, Iowa

WATER RESOURCE RESTORATION SPONSORED PROJECT

City of Center Point, Iowa

YOUNG STREET STORM SEWER IMPROVEMENTS

City of Jesup, Iowa

MONROE STREET IMPROVEMENTS

City of Winthrop, Iowa

SUPERIOR STREET DIKE IMPROVEMENTS

City of Clarksville, Iowa

CHURCH AND IOWA STREET IMPROVEMENTS

City of New Vienna, Iowa

Nicholas M. La Rosa

Staff Engineer



EDUCATION

B.S. in Civil Engineering
Iowa State University, 2021

Certificate in Leadership Studies
Iowa State University, 2021

PROFESSIONAL LICENSES

Land Surveyor-In-Training
Iowa LIT-00117, 2021

Engineer-In Training
Iowa EIT-00937, 2022

CERTIFICATION

Iowa Certified Stormwater Pollution Prevention Plan Designer, 2022

PROFESSIONAL ASSOCIATION

Society of Land Surveyors of Iowa

Nick La Rosa is at his best when he is solving technical problems and helping clients. He enjoys managing municipal and system infrastructure projects where he takes the lead in designing and overseeing street, water and sewer system, and trail rehabilitation and reconstruction.

Nick's engagement spans the entire project lifecycle. He actively contributes to various project phases, including topographic surveys, design conceptualization, drafting and construction staking.

MEADOW PARK FOURTH SUBDIVISION

City of Manchester, Iowa

Nick served as the Lead Engineer to design 13 lots in the subdivision. He developed cost estimates and calculated elevations for sewer systems, intersections and Americans with Disabilities Act-compliant sidewalks. He also provided construction staking and inspection services and set property pins.

GEOGRAPHIC INFORMATION SYSTEM WATER AND SANITARY SYSTEMS MAPPING

Cities of Delhi, Coggon and Fairbank, Iowa

Nick performs GPS fieldwork to collect data on locations and elevations for live interacting mapping systems. The data is imported into Diamond Maps, which allows clients to take notes and make live updates with each project.

SPILL PREVENTION CONTROL AND COUNTER MEASUREMENT PLAN AND SECONDARY CONTAINMENT PLAN

Innovative Ag Services

- Elkader, Farley, Hopkinton, Masonville and Masonville, Iowa
- Cuba City, Wisconsin

SUBDIVISION SITE DESIGN

City of Maquoketa, Iowa

HOBBS' MEADOWS ESTATES SUBDIVISION SITE DESIGN

City of Delhi, Iowa

SEGMENT 2 TRAIL IMPROVEMENTS

City of Oelwein, Iowa

MARION INDEPENDENT SCHOOL DISTRICT SITE DESIGN IMPROVEMENTS

OPN Architects

ENGINEERING REPORT

City of Bertram, Iowa

INFILTRATION AND INFLOW IMPROVEMENTS

City of Martelle, Iowa

DRAINAGE DITCH IMPROVEMENTS

City of Jesup, Iowa

WEST MAIN (IA 13) WATER MAIN REPLACEMENT

City of Manchester, Iowa

Adam J. Recker, PLS

Land Surveyor



EDUCATION

A.A.S. in Civil and Construction Engineering
Technology
Hawkeye Community College, 2002

PROFESSIONAL LICENSE

Professional Land Surveyor
Iowa #24627, 2018

PROFESSIONAL ASSOCIATION

Iowa Society of Professional Engineers

Adam Recker collaborates with municipalities, contractors, attorneys, private developers and citizens. He is experienced in construction staking, including topographical research, level loops, control point establishment and project drafting. He is also proficient in survey retracement, subdivision acquisition plats, easements and American Land Title Association surveys.

MEADOW PARK FOURTH SUBDIVISION

Krogmann Construction

Adam worked with a private developer and City of Manchester officials to subdivide 8.5 acres. With coworkers, Adam met with City staff and Krogmann Construction to discuss layout options to ensure they met City requirements. He led the project management, legal and topographic survey work, measure downs for sanitary sewer structures and drafting.

PAVEMENT-GRADE AND NEW U.S. 20 INTERCHANGE AT 330TH/332ND AVENUE

Iowa Department of Transportation (DOT)

Adam worked with a contractor to set up the GPS control for the project, run level loops and stake sanitary sewer force main, water main, storm sewer and paving hubs. The project in Dyersville, Iowa, started with staking paving hubs at 25-foot intervals. When the contractor was hired, the project was changed to stringless paving. Adam helped create a surface model and controls for the contractor to use for paving.

VINE STREET BRIDGE CONSTRUCTION STAKING (IOWA DOT PROJECT)

City of Center Point, Iowa

WIND FARM CONSTRUCTION STAKING

City of Hawkeye, Iowa

ETHANOL PLANT CONSTRUCTION STAKING

Fagen Construction | Dyersville, Iowa

SHELL ROCK SOY PROCESSING CONSTRUCTION STAKING

Fagen Construction | Shell Rock, Iowa

DUBUQUE AIRPORT LANDSIDE PAVING STAKING

City of Dubuque, Iowa

CRESCO COMMUNITY SCHOOL DISTRICT BUILDING ADDITION AND REMODEL

Cresco Building Service | Cresco, Iowa

WHITEWATER PARK IMPROVEMENTS

City of Manchester, Iowa

LETTERS OF MAP AMENDMENT ELEVATIONS

- Jesse Lewin | Manchester, Iowa
- John Vontalge | Colesburg, Iowa
- Dennis Putz | Dyersville, Iowa
- Kelly Smith | New Hartford, Iowa

GRAIN BIN FOUNDATION ELEVATIONS

Shell Rock Soy Processing | Shell Rock, Iowa

Amy F. Cabalka

Associate Engineering Technician



EDUCATION

A.A.S. in Civil and Construction Engineering
Hawkeye Community College, 2015

A.A.A. in Professional Photography
Hawkeye Community College, 2010

CERTIFICATIONS

Iowa Department of Transportation
Aggregate Technician
Hot Mix Asphalt 1
Portland Cement Concrete 1
Occupational Safety and Health Administration
Certification, 2014
Iowa Certified Stormwater Pollution Prevention
Plan Designer, 2022

Amy Cabalka helps find the best solutions for clients, which adds value to projects. Amy's work includes design drafting using AutoDesk Civil 3D, Geographic Information System mapping and civil design. She is experienced in land surveying, construction staking, courthouse research, data collection and quality assurance monitoring.

WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS

City of Center Point, Iowa

Amy drafted plans to reroute wastewater treated at the north facility to the future treatment plant on the City's south side. Her team added two segments of force mains, designed and developed sizing for the Wakema Park Lift Station, and sized the pumps and wet well. Amy helped develop plans for Americans with Disabilities Act-accessible sidewalks and street pavement. She created treatment plant drafting plans, which included three lift stations, a headworks building, treatment tanks, operations building with ultraviolet disinfection technology and a screening building. Lagoons were converted to equalization and sludge storage, and a water main extension was added.

IOWA 281 RECONSTRUCTION

City of Fairbank, Iowa

Amy drafted the plans for streets – concrete on the east end and asphalt on the west end – water main and storm sewer during the reconstruction of Iowa Highway 281. She worked closely with AECOM, a construction engineering company that worked on the sidewalk plans, to make sure their plans coordinated with ours.

EAST AND JEFFERSON HIGH SCHOOL PARKING LOTS

Rockford Public Schools | Rockford, Illinois

BEE BRANCH TRAIL

City of Dubuque, Iowa

EAST MAIN STREET IMPROVEMENTS

City of Manchester, Iowa

SITE IMPROVEMENTS

Slumberland | Cedar Falls, Iowa

CADET FIELD NEW TURF AND IMPROVEMENTS

StruXture Architects | Iowa Falls, Iowa

CHEMICAL CONTAINMENT STRATEGY AND SITE IMPROVEMENTS

- Innovative Ag Services
- Nutrien Ag

WELL HOUSE AND BOOSTER PUMP STATION DESIGN

City of New Vienna, Iowa

PARKING LOT WITH PERMEABLE PAVERS

City of Manchester, Iowa



References



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Attachments



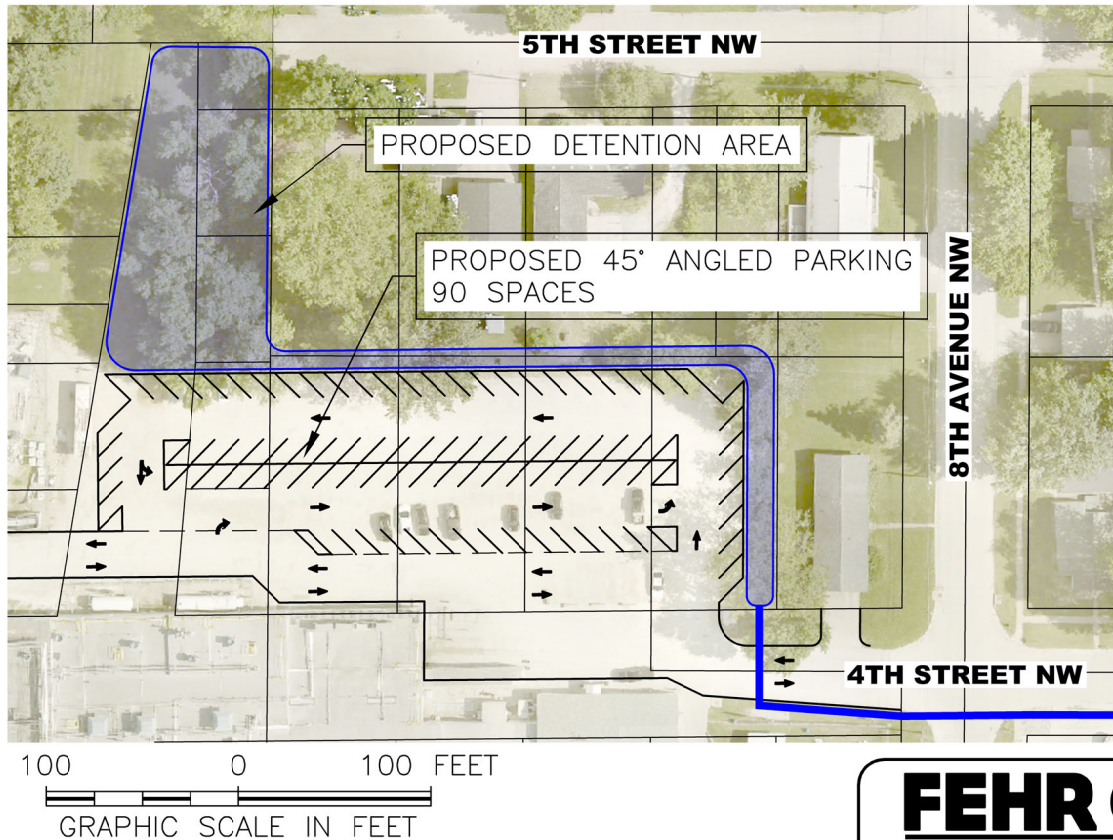
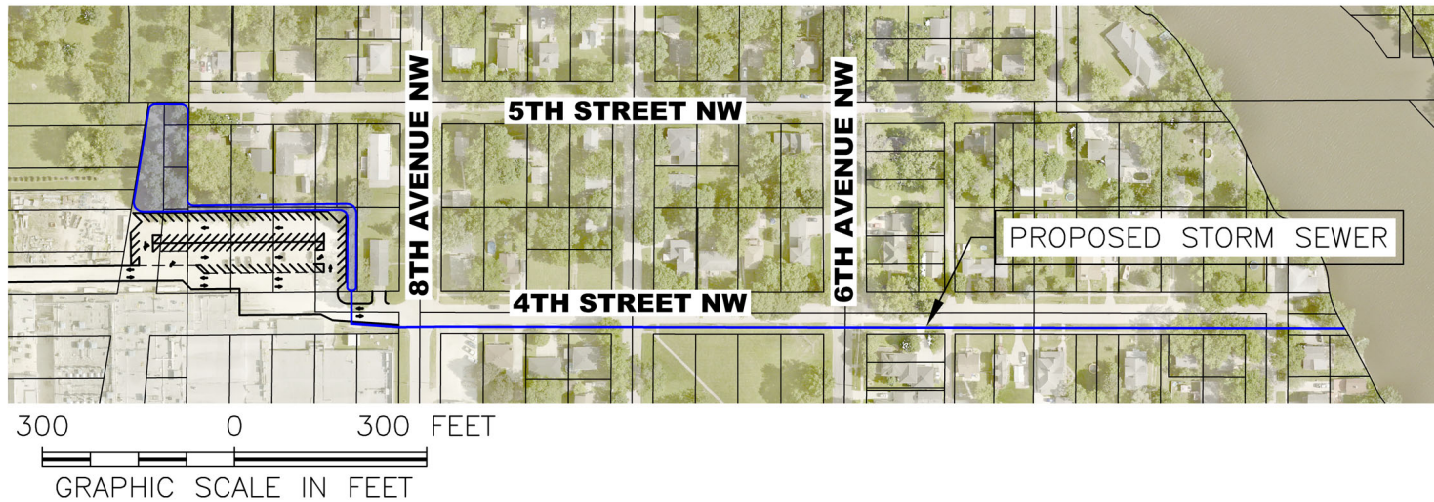
Proposed Fees

The estimated fees for each project phase are based on the design concept illustrated in the accompanying exhibit. The design incorporates a detention area in the open space north of Independence Premium Foods, with open drainage leading east. Before it crosses the driveway, stormwater flow from the area previously occupied by the railroad is directed eastward through a storm sewer pipe, which also gathers runoff from the north of 4th Street NW. The storm sewer is expected to range from 24 to 36 inches in diameter, designed to accommodate overflow during significant weather events. The exact sizing of this system will be determined during the upcoming study and review phase. Please note, these estimates may be adjusted as the project's scope is refined and as specific needs are identified.

Study Review	\$6,000
Design	\$36,000
Bidding	\$3,000
Construction Administration	\$18,000
Construction Layout	\$4,000
Construction Observation (part time 50%)	\$18,000
Grant Application Assistance	To be determined based on grant program, typically range from \$2,000 to \$3,000 per program.

**Provided costs are estimates and dependent upon project needs and redevelopment goals.*





STORM DRAINAGE CONCEPT

FEBRUARY 9, 2024

FEHR GRAHAM
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