PROPOSAL FOR PROFESSIONAL SERVICES

Flood Hazard Mitigation Plan

LA CROSSE, WISCONSIN | AUGUST 14, 2020

SEH

Building a Better World
for All of Us

ngineers | Architects | Planners | Scientists

August 14, 2020

Planning & Development Department
Attn: Lewis Kuhlman, AICP, CRM
Environmental Planner
400 La Crosse St.
La Crosse, WI 54601

Building a Better World for All of Us®

RE: RFP for a Flood Hazard Mitigation Plan (FHMP)

Dear Mr. Kuhlman:

The City of La Crosse is moving forward with this important Flood Hazard Mitigation Plan (FHMP) project. The FHMP will build on successful floodplain management efforts in the City, serving your long-term needs and helping the City guide future development and redevelopment. A successful plan will require a team that can provide thoughtful planning services along with addressing the technical components of floodplain management.

At Short Elliott Hendrickson Inc. (SEH®), we are excited about the opportunity to continue working with the City on your flood management planning. With the knowledge and familiarity from our work on the Ebner Coulee Flood Study and the lessons learned with the River Point District, we are ready to get to work to implement an effective FHMP that meets your short- and long-term needs.

SEH will serve as the lead firm for this project and will be responsible for managing the overall FHMP tasks, facilitating the project meetings, and overseeing the planning process. We have added JEO as a subconsultant on the project for their experience and expertise in floodplain management, hazard mitigation and emergency planning. They will support the FHMP development and ensure the plan meets the requirements of 44 C.F.R. 201.6.

The team we have compiled for this project not only meets the requested qualifications, but are specialists in floodplain management and hazard mitigation planning. The combined resources of SEH and JEO provide the capability and capacity to undertake the work as required, with a proven record of successful teaming in the implementation of flood mitigation projects.

We are committed to the successful completion of this project, and we are looking forward to the opportunity to build on our strong working relationship with the City of La Crosse. If you have any questions, please feel free to contact me at bwoznak@sehinc.com or 651.490.2125.

BRAD WOZNAK, PE, PH, CFM
PROJECT MANAGER

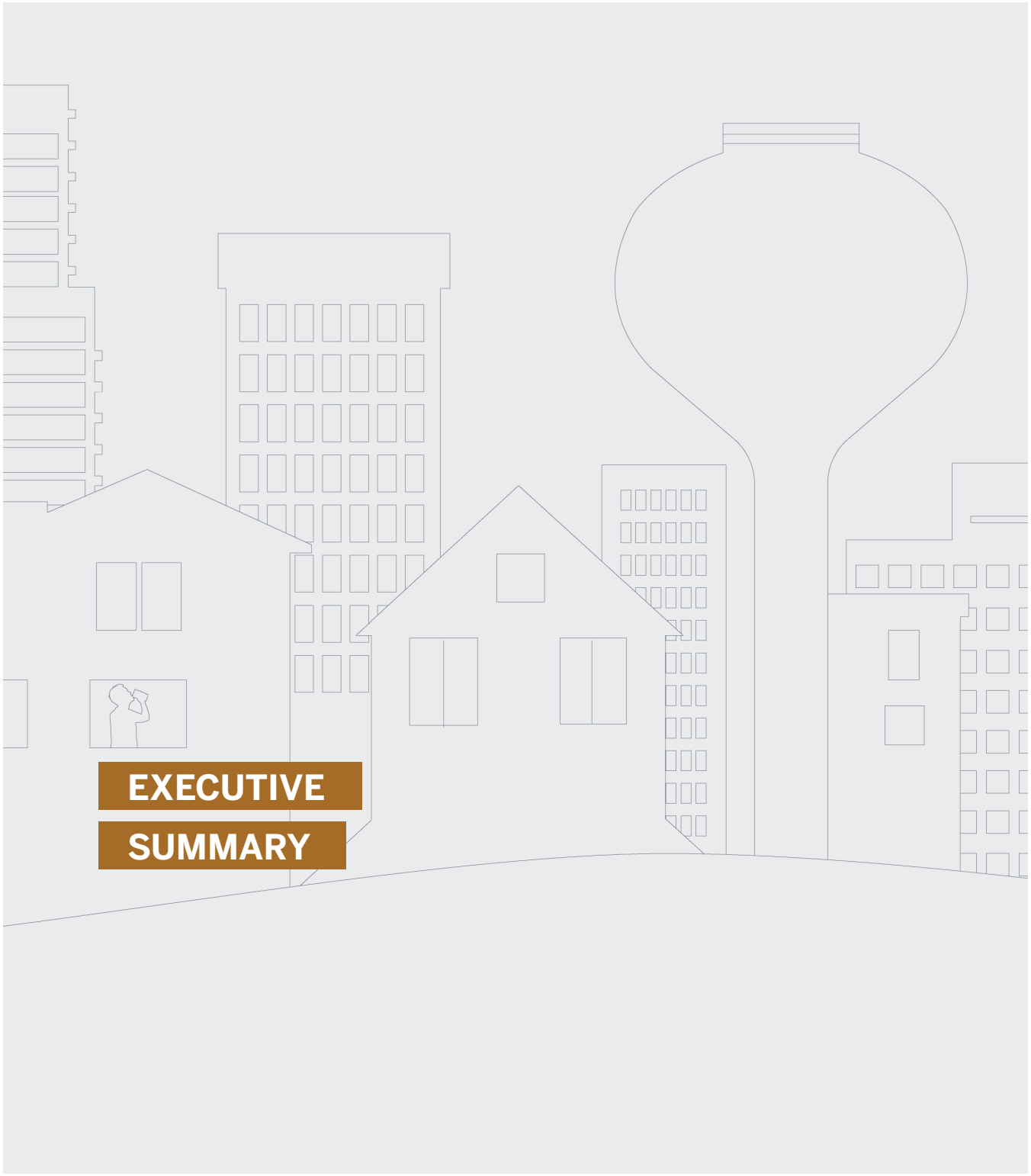
BRUCE OLSON, PE
PRINCIPAL IN CHARGE

More than 1,700 structures on La Crosse's North Side are within the 100-year floodplain.

CONTENTS

The specific licenses and credentials of the team members are described in the personnel and/or resume section of this document.

LACRS 149669 | REVISED 06.18.20



EXECUTIVE SUMMARY

Executive Summary

BRAD WOZNAK, PE, PH, CFM
PROJECT MANAGER AND
SENIOR FLOODPLAIN MANAGER
651.490.2125 | BWOZNAK@SEHINC.COM

The City of La Crosse faces a variety of flood hazards, unique from the remainder of the state because it's the largest Wisconsin City along the Mississippi River. These hazards range from large riverine flooding to overland flash flooding and basement flooding. In seeking services for a Flood Hazard Mitigation Plan (FHMP), you will need a team that can bring long-term planning and community development together with the technical components of the FHMP.

SEH is excited about the staff we have brought to your project to provide that team. We are intimately familiar with the flood hazards in and around the City of La Crosse. We have already had the opportunity to work with you to address flood hazards in the City on the Ebner Coulee project, and we have partnered with JEO to further augment those floodplain management resources.

SEH also offers experience with City projects such as the River Point District, showing our ability to bring together planning, community and economic development with the floodplain management tasks of the plan. We look forward to putting that knowledge and our technical experience to work to develop and implement an effective FHMP.

To ease the evaluation of our proposal, we have provided an overview of our proposal in terms of how we meet your selection criteria outlined in the RFP.

TECHNICAL COMPETENCE OF FIRM AND QUALIFICATIONS OF KEY PERSONNEL

We have intentionally selected our team members to provide the technical knowledge and experience to meet your needs on this project. Combined, SEH and JEO have 10 Certified Floodplain Managers (CFM) through the Association of State Floodplain Managers with both planning and engineering backgrounds in both the public and private sectors.

We also offer community planners, mitigation experts, environmental planners, civil engineers and GIS specialists to meet the full range of tasks that will be required for a FHMP that meets the unique needs of the City of La Crosse.

DID YOU KNOW

Our team has extensive experience with all aspects of floodplain management planning throughout the Midwest, including work in La Crosse and for other communities similar in size.

EXPERIENCE IN THE PREPARATION OF FHMPS

Our team has extensive experience with all aspects of floodplain management planning throughout the Midwest, including work in La Crosse and for other communities similar in size. SEH and JEO have successfully partnered together on multiple flood mitigation projects throughout the Midwest, including Independent External Peer Reviews for the Papio-Missouri River Natural Resources District within the City of Omaha, Nebraska and Flood Risk Reduction Program Management for the City of Council Bluffs, Iowa.

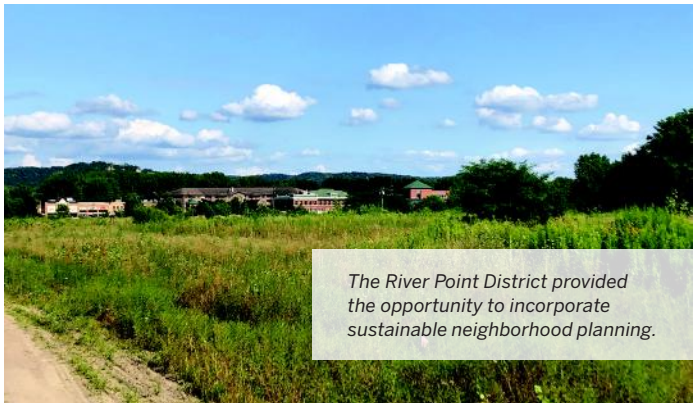
Another benefit of our experience on similar projects is our strong working relationships with agencies, including the Wisconsin DNR, USACE, and FEMA staff. We are familiar with the underlying regulatory requirements and mitigation strategies to successfully complete this project.

UNDERSTANDING OF THE FHMP PROCESS AND CITY'S OBJECTIVES

We offer a proven approach to floodplain management and flood mitigation plans, one that focuses on long-term goals in addition to technical requirements and guidelines. We are confident this is the right approach for La Crosse to both meet your flood mitigation needs and set the City up for future development and redevelopment.

As detailed further in our proposal, our project approach is based on three distinct phases:

1. Understanding of Flood Hazards and Flood Risk Assessment
2. Goals and Objectives Setting
3. Strategies, Funding and Tools



The River Point District provided the opportunity to incorporate sustainable neighborhood planning.

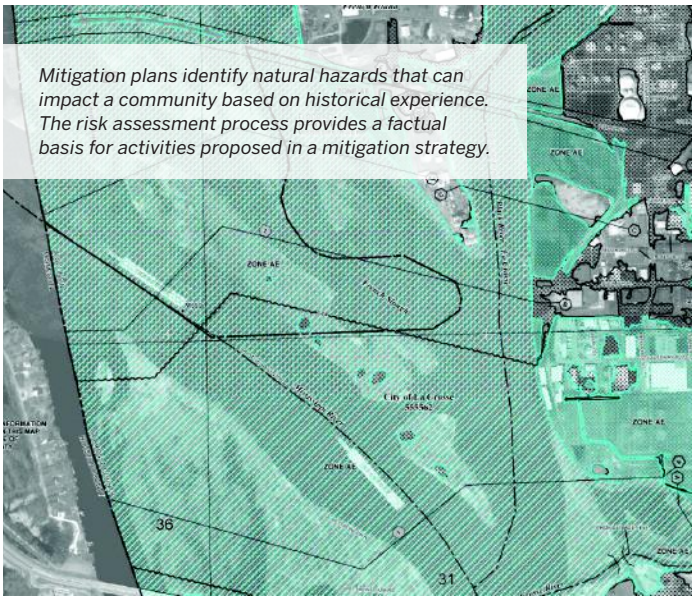
We will follow this approach while completing a FHMP that follows the tasks outlined in the RFP and meets the requirements of 44 CFR §201.6, as outlined in FEMA's Local Mitigation Planning Handbook. We will make certain to meet these requirements while also meeting the City's goals in terms of planning and looking to the future with consideration given to resiliency and green solutions.

PUBLIC ENGAGEMENT EXPERIENCE

It will be crucial to the overall success of the planning efforts and the implementation of the FHMP to incorporate creative, interactive public outreach throughout the process. SEH and JEO have proven experience implementing this type of outreach while considering factors such as long-term development and funding.

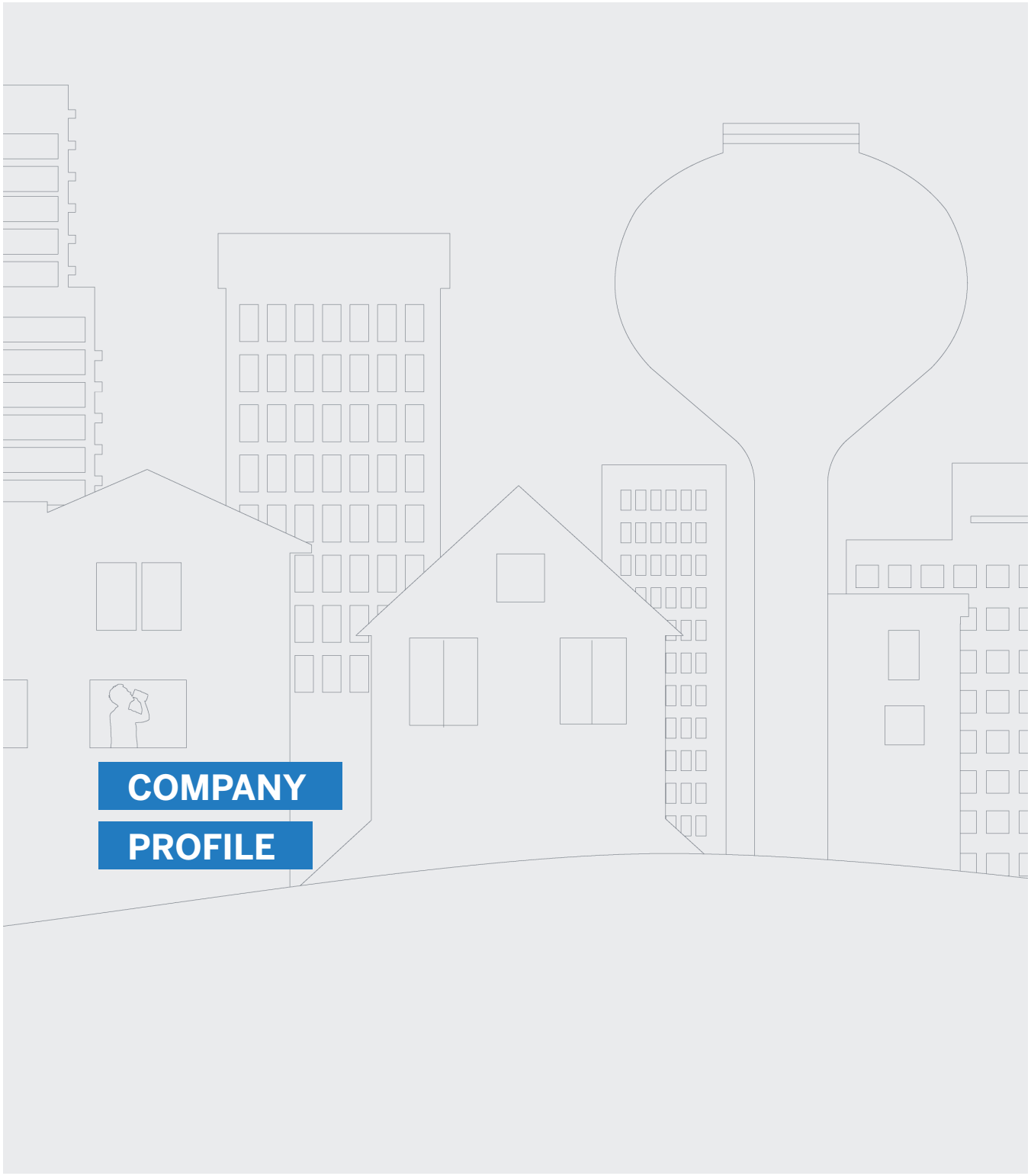
Our experience includes conducting community surveys and interviews to understand flood concerns from citizens. We have also held "flood talks" and "flood resiliency tournaments" to raise community awareness of issues and the importance of an effective FHMP. We will bring these tools to this project to develop a tailored outreach plan.

More recently, our public engagement experience includes the use of virtual tools to reach people during an unusual and challenging time. The COVID-19 pandemic has forced communities to adapt in how they share information and listen to stakeholders. Our plan for outreach on this project includes offering virtual meetings, and we will work together with the City to determine the best options for public engagement.



Mitigation plans identify natural hazards that can impact a community based on historical experience. The risk assessment process provides a factual basis for activities proposed in a mitigation strategy.

Redevelopment projects exemplified by River Point allow green infrastructure to be established as neighborhood amenities, but also serve as stormwater storage areas.



COMPANY PROFILE

Company Profile

SHORT ELLIOTT HENDRICKSON INC. (SEH®)

SEH is an employee-owned engineering, architectural, environmental and planning company that helps government, industrial and commercial clients find answers to complex challenges.

SEH's 800-plus employee-owners share a core purpose: Building a Better World for All of Us®. This approach reflects a company-wide commitment to improving the quality of life by designing safer, more sustainable infrastructure for government, and helping industrial and commercial clients achieve their business goals. Headquartered in St. Paul, Minnesota and with 31 offices in nine states, including a La Crosse office, you'll find evidence of SEH's work throughout the United States.

FLOODPLAIN MANAGEMENT

7

number of Certified Floodplain Managers (CFMs) companywide

From innovative flood risk reduction projects to master drainage plans, to large-scale hydraulic structures and urban watercourse rehabilitation, our water resources engineers and floodplain management experts understand taking a project from assessing the problem to developing solutions. SEH offers extensive experience with flood modeling and development of floodplain management solutions similar to the tasks in this project. This includes experience with the Federal Emergency Management Agency (FEMA), Wisconsin Department of Natural Resources (WDNR) and U.S. Army Corps of Engineers (USACE), as well as these agencies' processes and regulations in regards to floodplain mapping and management.

SEH offers Certified Floodplain Managers (CFM) who have worked together on a variety of floodplain planning issues including FEMA Letter of Map Revisions (LOMR) in the State of Wisconsin and throughout FEMA Region V. Our team of engineers has experience on numerous modeling and floodplain projects throughout the Midwest, including project work in La Crosse.

PLANNING

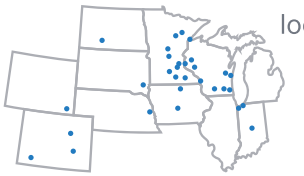
At SEH, we know that successful planning and community development requires clear communication. It also requires a deep understanding of the issues, trends, challenges and goals for the development of various land uses throughout a community. Our team of planners and community and economic development specialists are committed to helping clients find creative solutions by collaborating with SEH's other disciplines.

We have extensive experience working with our clients to provide thoughtful, long-term planning to improve communities. SEH's planners have experience in land use planning, zoning administration, development review and municipal finance to help cities craft ordinance updates that uniquely meet their needs and comprehensive planning goals.

SHORT ELLIOTT HENDRICKSON INC.

Founded in **1927**

HAS GROWN TO 31 locations



EMPLOYING 800+

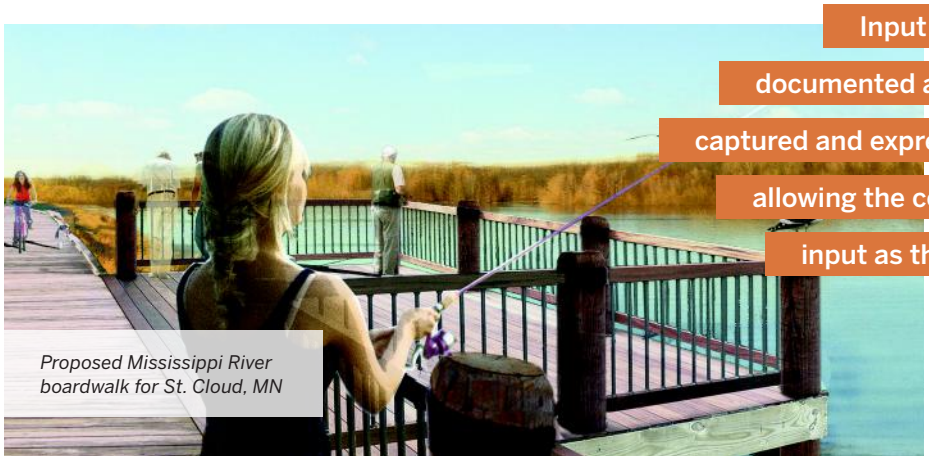
engineers, architects, planners, scientists and talented professionals

WHO WORK TOGETHER TO SERVE

4 market areas: mobility, better places, clean water and renewing infrastructure

AN IMPRESSIVE 80%

of our clients are repeat customers



Proposed Mississippi River boardwalk for St. Cloud, MN

Input collected at community meetings is documented and interpreted so that the ideas are captured and expressed in a variety of graphic formats allowing the community to visually reflect on their input as the ideas materialize in front of them.

PUBLIC OUTREACH

INNOVATIVE STAKEHOLDER INVOLVEMENT – TELLING THE STORY

Our team places a high value on quality stakeholder involvement. We understand that a successful stakeholder involvement plan must represent the needs and desires of the many diverse interest groups and stakeholders within a community. We also recognize that there is no single technique that works in all situations – that no single method is ever enough to build the kind of understanding and support that a plan needs to succeed. We offer multiple approaches to promote engagement, gather diverse perspectives and build consensus.

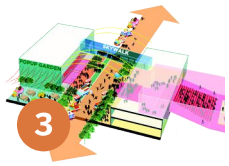
At the core of our approach is a thorough communication plan that we develop with you to identify the appropriate tools needed for your public outreach. Then we make sure you have the tools you need to effectively communicate with each of your audiences. The following methodologies guide us in designing the public involvement process:

- Use a variety of techniques such as workshops, interviews, open houses, newsletters, surveys
- Facilitate informed participation through effective communication tools: plans, perspective sketches, photographs, photo-simulations, 3D illustrations and more
- Create alternatives to find compromise and build support
- Demonstrate in the plan that we have heard the public's ideas and concerns
- Document key decisions throughout the planning process

JEO'S FLOOD RESILIENCY TOURNAMENTS

JEO has experience with facilitating flood resiliency tournaments, which may be employed during the planning process. This scenario-based exercise is designed for stakeholders to work in teams and play out potential strategies that would reduce flood risk for the community. Participants will gain an understanding of community-supported projects and policies aimed at improving flood resiliency. Furthermore, the tournament is an opportunity for networking and cross-sector collaboration among stakeholders involved during a flood response.

WORKSHOPS AND CHARRETTES



MAXIMIZING ONLINE TOOLS

4 COMMUNITY REMARKS® Put your idea on the map

5 POLCO

6 

1. *Placemaking workshop for the comprehensive plan in Onalaska, WI.*
2. *Interim design review for Chippewa Falls, Wisconsin riverfront planning workshop.*
3. *People process information in different ways, so communicating data and design concepts with colorful diagrams and infographics strengthens outreach and reduces misinformation.*
4. *This customized website allows citizens to conveniently post their ideas, comments and images to a website and relate them to a specific area. Unlike other engagement applications, citizens do not need to create an account or login to participate – removing a barrier for input.*
5. *POLCO is an effective online tool to gather citizen input. Our team garnered over 4,000 comments via POLCO for the West Waterfront Visioning project in Sturgeon Bay, Wisconsin. This input provided remarkable insights that informed the vision.*
6. *We leverage the Mentimeter digital application for facilitating and recording community input anonymously during meetings.*

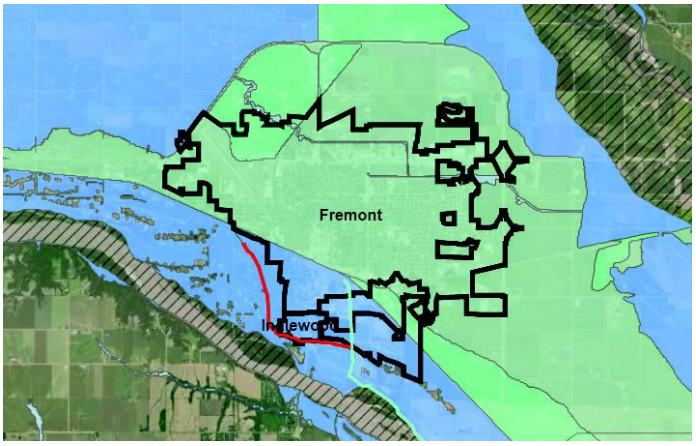
SUBCONSULTANT

JEO CONSULTING GROUP

Since 1937, JEO Consulting Group has provided engineering consulting services, unsurpassed in skill, creativity, and cost-efficiency. From their modest beginnings, JEO has grown into a highly skilled and respected consulting firm, serving individuals and communities throughout the Midwest. With over 250 professional staff members, JEO has 13 offices located in Nebraska, Iowa, and Kansas. The JEO team of professional engineers, architects, planners, surveyors, community engagement specialists, environmental scientists, and finance experts all work in concert with skilled technicians and support personnel to exceed their clients' expectations.

JEO's Water Resources Engineering Department (WRED) includes 30 staff members (including 6 CFM's) that specialize in levee and flood mitigation, stormwater and floodplain management, dam and lake design, environmental planning, stream/wetland improvements, and hydrologic and hydraulic modeling. They continue to invest in development of services to ensure they provide the best-in-practice service to clients.

In March 2019, Nebraska river systems experienced significant flooding. Findings of the assessment JEO performed a year later - in conjunction with other ongoing mitigation actions - gave Fremont a planning tool to prioritize flood risk reduction actions within the community.



READ MORE ABOUT THE FREMONT PARCEL ASSESSMENT ON PAGE 15.

PROJECT TEAM

Project Team

PROJECT ORGANIZATIONAL CHART

We have selected the team members shown below to meet the specific needs of this project.

CLIENT

City of La Crosse | FHMP Steering Committee and City Staff Technical Advisory Committee
Lewis Kuhlman AICP | Environmental Planner

MANAGEMENT

CFM **Brad Woznak** PE, PH, CFM | Project Manager/Senior Floodplain Manager, **SEH**
Randy Sanford PE | Client Service Manager, **SEH**

WATER RESOURCES/ FLOOD MANAGEMENT TECHNICAL RESOURCES

CFM **JORDAN THOLE** PE, CFM | Floodplain Engineer, **SEH**
CFM **RILEY MONDLOCH** PE, CFM | Floodplain Engineer, **SEH**
CFM **DAN FRICKE** PE, CFM | Senior Floodplain Engineer, **JEO**

ENVIRONMENTAL PLANNING

BRUCE OLSON PE | Senior Environmental Scientist, **SEH**
RYAN SAUTER | Hydrogeologist/Environmental Scientist, **SEH**
CFM **RENEE WILDE** PWS, CFM, CWS | Natural Floodplain Function Expert, **SEH**

PUBLIC ENGAGEMENT, COMMUNITY DEVELOPMENT, LAND USE PLANNING

BREA GRACE AICP | Land Use Planner/Public Engagement Facilitator, **SEH**
NATE DAY AICP | Senior Planner/Funding Specialist, **SEH**
DILLON CONSTANT | GIS Analyst/Community Planner, **SEH**
ANDREA GEBHART AICP | Community Engagement Specialist, **JEO**
ALYSSA TENORIO | Public Information Specialist, **JEO**

URBAN PLANNING, FUNDING,ECONOMIC DEVELOPMENT

GARY RANDLE | Senior Urban Planner, **SEH**
DANIEL BOTICH | Senior Economic Development Professional, **SEH**
MARY BAKER | FEMA Funding Specialist, **JEO**

INFRASTRUCTURE COORDINATION AND PLANNING

JEREMY TOMESH PE | Civil Engineer, **SEH**

FEMA COMMUNITY RATING SYSTEM/ HAZARD MITIGATION, EMERGENCY PLANNING

CFM **JOHN CALLEN** PE, CFM | Senior Planner/FEMA CRS Expert, **JEO**
CFM **BECKY APPLEFORD** CFM | Senior Hazard Mitigation/Emergency Management Planner, **JEO**
BROOKE SEACHORD | Hazard Mitigation/Emergency Management Planner, **JEO**

The specific licenses and credentials of the team members are described in the personnel and/or resume section of this document.

We have introduced our key team members and their roles on the project below. Additional information can be found in the resumes provided in the appendix.

BRAD WOZNAK PE, PH, CFM
PROJECT MANAGER/SENIOR FLOODPLAIN MANAGER

Brad will serve as the project manager and will be responsible for ensuring the FHMP meets the City's schedule and the City's long-term goals and expectations.

RANDY SANFORD PE
CLIENT SERVICE MANAGER

Randy will help facilitate communication with the City and support Brad to ensure Brad and the team have the right resources to complete the plan.

JORDAN THOLE PE, CFM
FLOODPLAIN ENGINEER

Jordan will be responsible for hydraulic engineering and flood risk and mitigation efforts for the project.

RILEY MONDLOCH PE, CFM
FLOODPLAIN ENGINEER

Riley will be responsible for hydraulic engineering and flood risk and mitigation efforts for the project.

DAN FRICKE PE, CFM
SENIOR FLOODPLAIN ENGINEER

Dan will be heavily involved with hydraulic engineering and flood risk and mitigation efforts, including any levee certification discussions.

BRUCE OLSON PE
SENIOR ENVIRONMENTAL SCIENTIST

Bruce will oversee the development of the environmental aspects of the FHMP.

RYAN SAUTER
HYDROGEOLOGIST/ ENVIRONMENTAL SCIENTIST

Ryan will be responsible for hydraulic engineering and flood risk and mitigation efforts for the project.

RENEE WILDE PWS, CFM, CWS
NATURAL FLOODPLAIN FUNCTION EXPERT

Renee will our environmental scientist, responsible for identifying opportunities and best practices for environmental conservation.

BREA GRACE AICP
LAND USE PLANNER/PUBLIC ENGAGEMENT FACILITATOR

Brea will lead the overall planning and community development efforts. She will also be responsible for public meetings and community engagement for the project.

NATE DAY AICP
SENIOR PLANNER/ FUNDING SPECIALIST

Nate will be responsible for identifying potential funding opportunities and requirements. He will also support the planning and community development efforts.

DILLON CONSTANT
GIS ANALYST/COMMUNITY PLANNER

Dillon will support the planning efforts by leading the development and implementation of GIS data into the process.

ANDREA GEBHART AICP
COMMUNITY ENGAGEMENT SPECIALIST

Andrea will support the development of the public outreach plan for the project.

ALYSSA TENORIO
PUBLIC INFORMATION SPECIALIST

Alyssa will help with public outreach and how information is shared with stakeholders.

GARY RANDLE
SENIOR URBAN PLANNER

Gary will lead the efforts to incorporate green infrastructure into the overall planning efforts for the plan.

DANIEL BOTICH
SENIOR ECONOMIC DEVELOPMENT PROFESSIONAL

Dan will be available as a resource for planning and economic development for the FHMP.

MARY BAKER
FEMA FUNDING SPECIALIST

Mary will be responsible for aligning the mitigation solutions with available funding programs.

JEREMY TOMESH PE
CIVIL ENGINEER

Jeremy will be responsible for leading civil engineering or infrastructure support tasks that are required as the FHMP is implemented.

JOHN CALLEN PE, CFM
SENIOR PLANNER/ FEMA CRS EXPERT

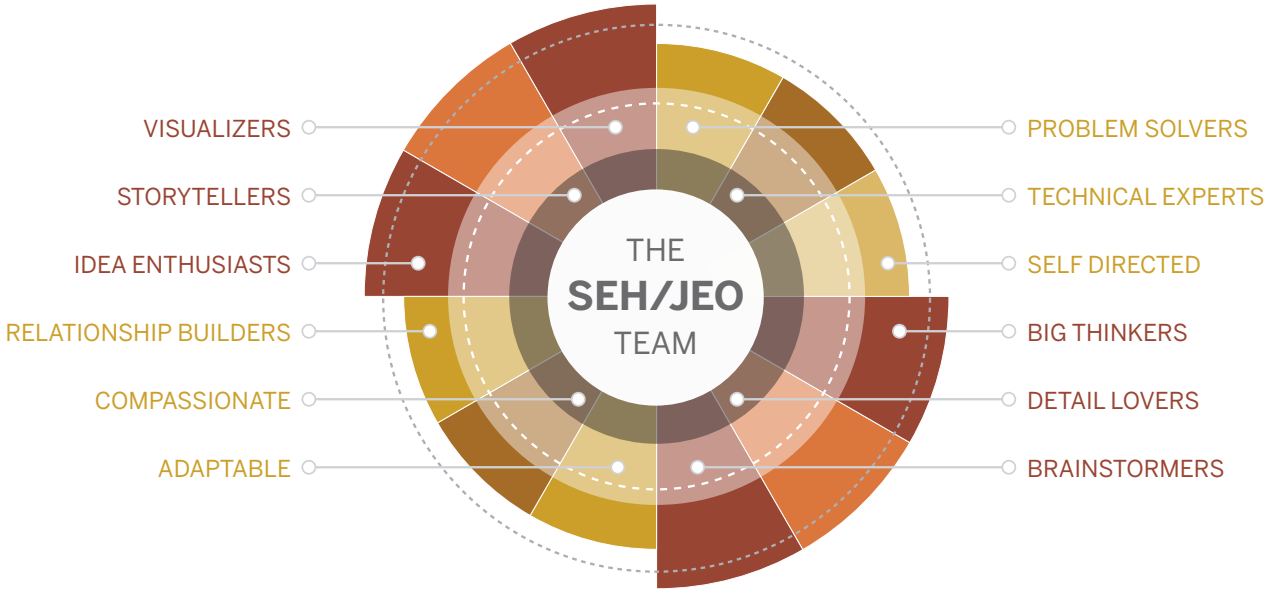
John will ensure that the plan maximizes the available points for CRS. John will also help ensure the programmatic floodplain management and technical assessments are cohesive in the plan document.

BECKY APPLEFORD CFM
SENIOR HAZARD MITIGATION/ EMERGENCY MANAGEMENT

Becky will lead the efforts to ensure the FHMP complies with 44 CFR §201.6.

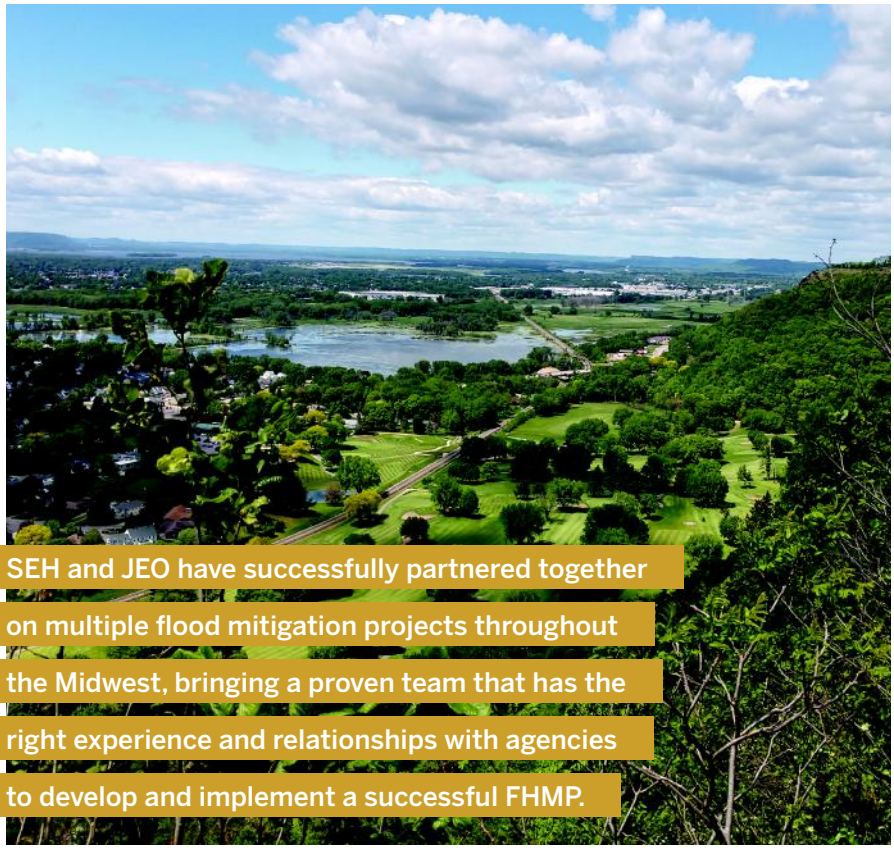
BROOKE SEACHORD
HAZARD MITIGATION/ EMERGENCY MANAGEMENT PLANNER

Brooke will be responsible for ensuring the plan follows 44 CFR §201.6 guidance.



RELATED EXPERIENCE AND REFERENCES

Related Experience and References



SEH and JEO have successfully partnered together on multiple flood mitigation projects throughout the Midwest, bringing a proven team that has the right experience and relationships with agencies to develop and implement a successful FHMP.

The SEH and JEO team brings extensive experience in flood mitigation, hydrologic and hydraulic modeling, analysis and design. The key personnel proposed for this project have worked on numerous floodplain modeling and drainage design projects throughout the Midwest. This includes projects that incorporated considerations such as community development and funding.

Members of our team routinely assist communities with similar flood mitigation and stormwater management projects. We are confident that our team will lead La Crosse through a successful project that will benefit your residents. Our collective experience, knowledge and availability will ensure quality deliverables that meet the City's schedule, budget and expected requirements.

The following pages illustrate our team's depth of experience helping communities to address flood hazards and implement long-term solutions.

REFERENCES

EBNER COULEE FLOODWAY (SEH)

CITY OF LA CROSSE

Lewis Kuhlman, AICP, CRM,
Environmental Planner
608.789.7361
kuhlmanl@cityoflacrosse.org

RIVER POINT DISTRICT PROJECT (SEH)

CITY OF LA CROSSE

Andrea Trane
Interim Director of Planning,
Development and Assessment
608.789.8321
tranea@cityoflacrosse.org

DEEP RIVER FLOOD RISK MANAGEMENT PLAN (SEH)

CITY OF HOBART

Dan Repay
Executive Director, Little Calumet River
Basin Development Commission
219.595.0599
drepay@littlecalumetriverbasin.org

FLOOD RISK REDUCTION PLAN AND PARCEL LEVEL FLOOD RISK ASSESSMENT (JEO)

CITY OF FREMONT

Lottie Mitchell
Executive Assistant
402.727.2624

CITY OF SCHUYLER

William De Roos
City Administrator
402.352.3101

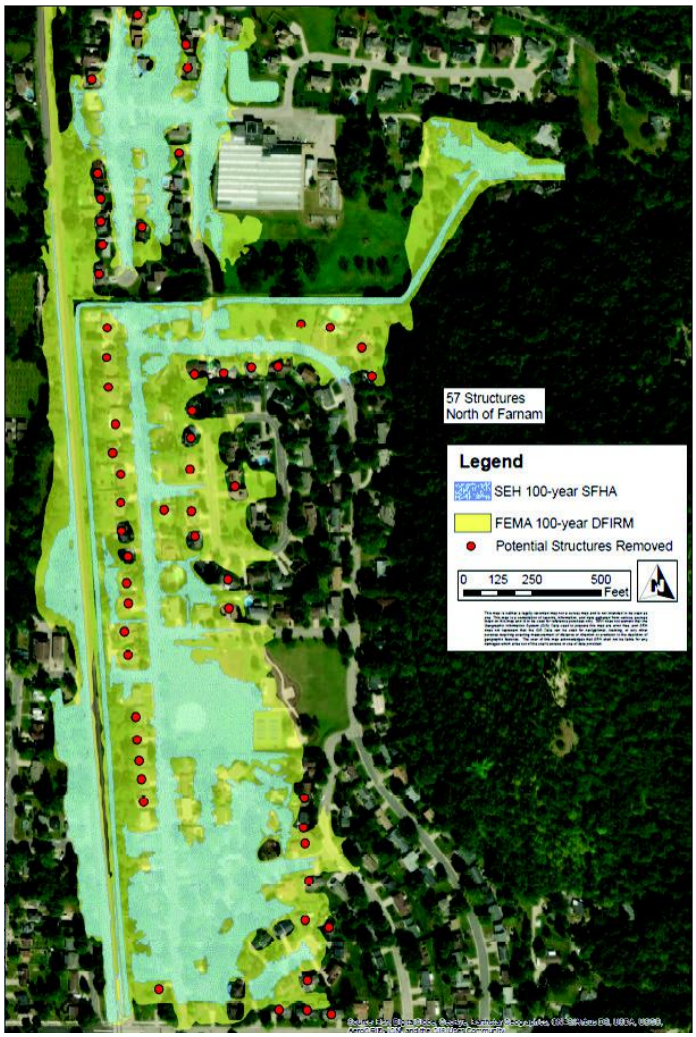
HAZARD MITIGATION PLAN UPDATE (JEO)

PAPIO-MISSOURI RIVER NRD

Lori Laster,
Stormwater Management Engineer
402.444.6222

EBNER COULEE FLOODWAY STUDY AND FEMA LETTER OF MAP REVISION

LA CROSSE, WI



This multi-phased project focused on a complex urban floodplain on the eastern edge of the City of La Crosse with several repetitive loss structures and outdated inaccurate floodplain maps. The project required close coordination with the WDNR and the City of La Crosse to create an accurate floodplain map and adjust the City's regulatory practices to reduce the flood hazards to home owners.

The initial phases involved the review of the existing floodplain mapping methodologies and determination of whether updated hydrologic analyses would warrant a more in-depth analysis of the floodplain mapping.

The final phase of the project involved updated hydrologic and hydraulic modeling and floodplain mapping for the project area along with a Letter of Map Revision (LOMR) submittal to FEMA to officially update the flood maps to more accurately reflect the underlying flood risk for the community.

SERVICES

- Hydraulic Modeling (1-dimensional steady and unsteady, 2-dimensional)
- Hydrologic Analyses - calibration to historic flood events
- Flood Inundation Mapping
- Citizen Surveys of Historic Flooding Events
- Field surveys of historic high water marks
- Urban Storm Water Drainage Analysis
- Development of Project Fact Sheets and presentations to the Floodplain Advisory Committee
- Municipal Floodplain Ordinance Review

CLIENT

City of La Crosse

YEAR COMPLETED

Ongoing

KEY PERSONNEL

- Brad Woznak – Project Manager and Senior Hydraulic Engineer
- Jordan Thole – Floodplain Engineer
- Riley Mondloch – Hydraulic Engineer

RIVER POINT DISTRICT PROJECT

LA CROSSE, WISCONSIN

CLIENT

City of La Crosse

YEAR COMPLETED

2014

KEY PERSONNEL

- Randy Sanford – Senior Project Engineer
- Brad Woznak – Floodplain Manager
- Riley Mondloch – Hydraulic Engineer

SEH worked with the City of La Crosse Redevelopment Authority on the River Point District (formerly Riverside North Development) project to revitalize a former 65-acre brownfield site at the internationally significant confluence of the Mississippi, Black and La Crosse Rivers. The design was developed using the innovative National Charrette Institute (NCI) process culminating in an intense, seven-day interactive public workshop.

The resulting plan reflects the history and character of the riverfront city as well as the community's vision for its future. The final plan provides strategies to reclaim and transform the riverfront property into a livable, walkable neighborhood with a mix of residential and commercial buildings, and increased recreational, economic and tourism-related attractions.

One of the key drivers for the layout of the proposed neighborhood is the 30+ acres of open and forested wetlands and extensive riverfront shorelines. This is achieved through a multimodal parkway and three linear ecological extensions or "green fingers" up into the new redevelopment.

Proposed development intensity is expected to range between approximately 400-500 homes and 27,000 to 40,000 sq. ft. of commercial space, all to be built in phases over a seven to ten year period.

The new infill development is a key gateway into the downtown entering from Copeland Avenue. The riverfront and public multi-recreational trails will also connect the neighborhood to the downtown for work, shopping or recreational needs.

SEH is now part of the Master Developer team led by WiRED Properties. The team has formed a public private partnership to develop the site.

SERVICES

- National Charrette Institute certified charrette facilitation
- LEED Neighborhood Development evaluation
- NEPA/WEPA compatible environmental scan
- Multimodal planning
- Agency coordination

LEARN MORE:
https://bit.ly/RiverPointDistrictProject1

CANTONMENT-WIDE STORMWATER MASTER PLAN

FORT McCOY, WI

SEH performed a comprehensive, cantonment area-wide stormwater analysis and developed a comprehensive, detailed stormwater management plan and planning tools for the 3.5 square mile cantonment area of Fort McCoy, Wisconsin.

The Cantonment-Wide Storm Water Master Plan provides the foundation data for future base-wide development and project strategies, plans and designs. SEH provided a depth-to-groundwater evaluation and groundwater mapping update, including the installation of 12 temporary geoprobes and three water table monitoring wells, which collected data for one year.

Our team also designed an XPSWMM 2D hydrologic and hydraulic model of the cantonment area to simulate existing flooding conditions. This model can also be used for the design of stormwater management for future development. A key part of the process was a design charrette at the 50% project point to engage both A/E staff and Fort McCoy staff in collaborating on the final master plan objectives and tools.

SERVICES

- Stormwater master planning
- Regional stormwater best management practices (BMPs)
- Redevelopment Analysis to improve resiliency to flooding

CLIENT

US Army - Fort McCoy

YEAR COMPLETED

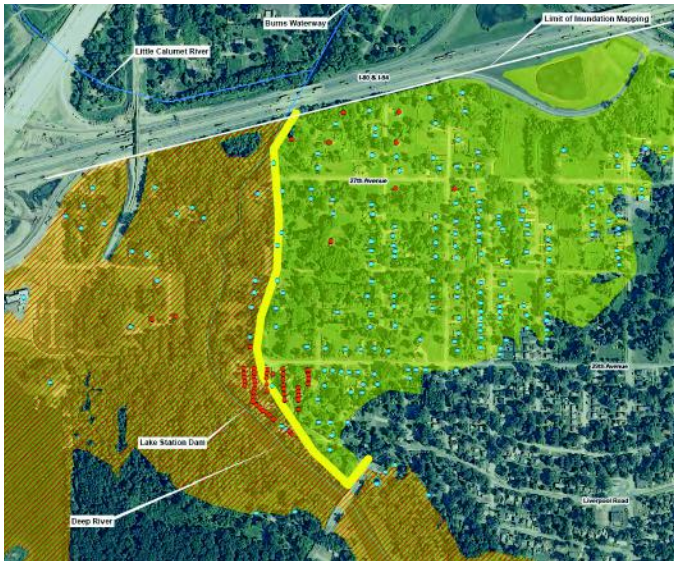
2019

KEY PERSONNEL

- Brad Woznak – Senior Project Engineer
- Randy Sanford – Senior Project Engineer
- Bruce Olson – Senior Scientist
- Riley Mondloch – Project Engineer

DEEP RIVER FLOOD RISK MANAGEMENT PLAN

HOBART, IN



SEH completed the flood risk management study for the City of Hobart and the Little Calumet River Basin Development Commission. The goal of the project was to develop a comprehensive flood risk management plan to benefit the City of Hobart and downstream communities along Deep River. Existing outdated modeling was updated and improved upon by performing bathymetric surveys of the reach and detailed hydraulic structure surveys, which were paired with available LIDAR data for the area. This project included evaluating water quality and sediment management techniques in addition to structural and non-structural flood risk management alternatives.

SERVICES

- Detailed bathymetric and topographic surveying
- Hydrologic and Hydraulic modeling
- Flood Hazard Mitigation Planning

CLIENT

City of Hobart

YEAR COMPLETED

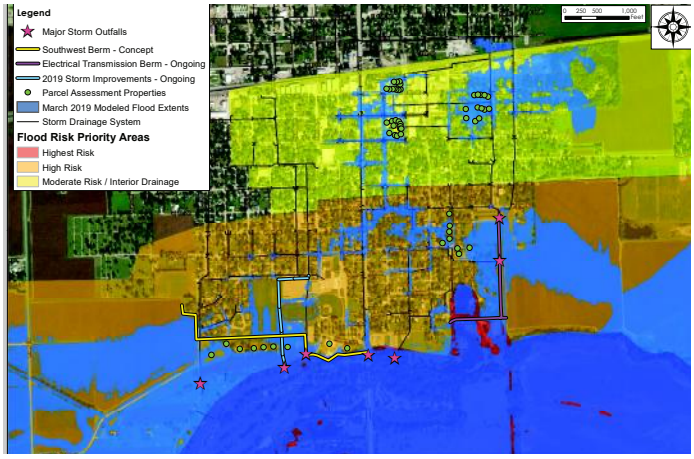
2015

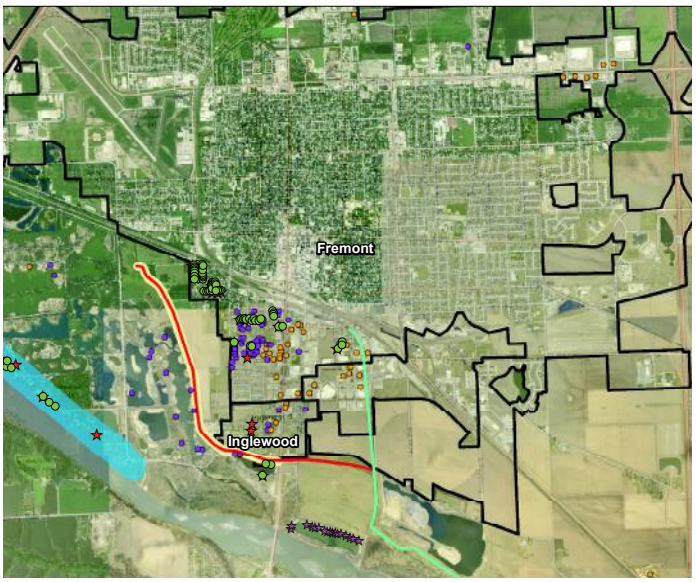
KEY PERSONNEL

- Brad Woznak – Senior Hydraulic Engineer
- Riley Mondloch – Hydraulic Engineer

FLOOD RISK REDUCTION PLAN AND PARCEL LEVEL FLOOD RISK ASSESSMENT

FREMONT AND SCHUYLER, NE





The City of Fremont and City of Schuyler were both impacted by unprecedented flooding from the Platte and Elkhorn Rivers during the March 2019 Nebraska flood event. Overflow entered each community and caused a variety of impacts to public infrastructure and private property.

Each community, in cooperation with the Lower Platte North NRD, had coordinated with JEO through the Lower Platte North NRD HMP update to develop a parcel level flood risk assessment and flood risk reduction plan. Key study components included:

- Parcel level flood risk assessment coordinated with the overall HMP flood risk assessment
- Development of individual property nonstructural flood risk reduction recommendations
- Development of programmatic/ planning flood risk reduction recommendations
- Identification of individual property or regional structural flood risk reduction actions, where appropriate
- Project prioritization, recommendations and reporting
- Development of project outreach tools and reporting using an ESRI Story Map

The project goal is to provide a more complete picture of flooding risk and a comprehensive summary of prioritized flood risk reduction alternatives for each community to consider. The assessment provides insight into nonstructural (individual property risk avoidance actions) and programmatic (community wide planning actions) that may not have been previously considered. The plan also includes an evaluation of the relationship of ongoing floodplain study and structural flood risk reduction actions on the overall floodplain management priorities for each community.

SERVICES

- Flood risk assessment comprised of three criteria: Property Score, Flooding Frequency Risk and Flooding Impact Risk Factors
- Flood risk reduction action recommendations
- Nonstructural flood risk reduction actions
- Plan for routine floodplain management and long-term flood risk reduction

CLIENT

Cities of Fremont and Schuyler

YEAR COMPLETED

2020

KEY PERSONNEL

- John Callen
- Becky Appleford
- Andrea Gebhart
- Mary Baker

CHECK OUT THE STORY MAPS:
https://bit.ly/FremontParcel
https://bit.ly/SchuylerParcel

HAZARD MITIGATION PLAN UPDATE

OMAHA, NE

JEO assisted the Papio-Missouri River NRD in the update of the 2016 HMP and was contracted again in 2018 to assist in the development of the project planning grant as well as updating the HMP following grant approval. This plan is unique due to the three communities which participate in the NFIP's Community Rating System (CRS). The hazard mitigation planning process is being leveraged to maximize credits through the CRS program, specifically activity 510 Floodplain Management Planning. Because of the unique CRS planning process employed by JEO during the 2016 update, the City of Omaha gained an additional 190 CRS points to go towards lowering flood insurance premiums for homeowners.

The public engagement process is also being bolstered during the 2021 plan update through the development of a project specific website, educational social media campaign and online survey. The purpose of the website, papiomitigation.org, is to educate and update the public on the hazard mitigation plan as well as provide a means to submit comments or engage in the process. The social media campaign and survey were developed as tools to gain public input during the plan update process since traditional public meetings and open houses were moved to an online format.

As of August 2020, the planning process is halfway done with a high attendance rate to virtual meetings during the COVID-19 pandemic. It is anticipated that well over 40 jurisdictions will be participating in the plan representing villages, cities, counties, schools, tribes, and the natural resources district.

CLIENT

Papio-Missouri River Natural Resources District

KEY PERSONNEL

John Callen
Becky Appleford
Brooke Seachord
Mary Baker

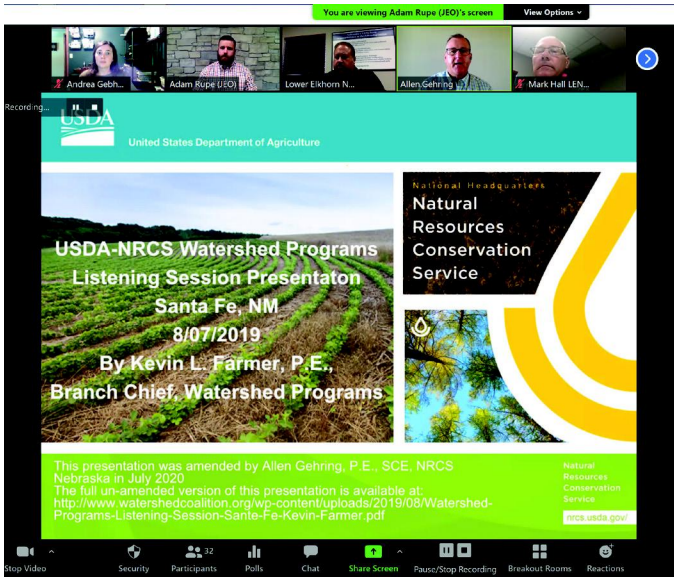
YEAR COMPLETED

Ongoing

BATTLE CREEK WATERSHED IMPROVEMENT PROJECT WORK PLAN –

ENVIRONMENTAL ASSESSMENT

BATTLE CREEK, NE



Flooding has plagued the community of Battle Creek since the 1940s. The Lower Elkhorn NRD, utilizing funding from the Natural Resources Conservation Service, is in the initial stages of a planning effort to identify a solution. JEO is leading the planning process, which includes agency and public meetings, alternatives evaluation, environmental assessment, economic analysis and conceptual engineering. The first round of agency and public meetings were held in July 2020 and conducted virtually as result of COVID-19 pandemic.

"I THOUGHT YOU GUYS DID A GOOD JOB OF EXPLAINING EVERYTHING AND KEEPING THE MEETING FLOWING SMOOTHLY! THIS IS A HOT TOPIC FOR ALL OF US... VERY POSSIBLE THIS WAS THE 1ST MEETING I'VE ATTENDED ON THIS MATTER THAT DIDN'T LAST 4 HOURS OR END IN A HEATED DEBATE."

- FEEDBACK FROM MEMBER OF THE PUBLIC FOLLOWING THE PROJECT'S FIRST OPEN HOUSE, HELD VIRTUALLY

CLIENT

Lower Elkhorn Natural Resources District

KEY PERSONNEL

Andrea Gebhart
John Callen

YEAR COMPLETED

Ongoing

PROPOSED PROJECT APPROACH AND SCHEDULE

Proposed Project Approach and Schedule

APPROACH

The flood hazards the City of La Crosse faces are varied and complex. These hazards range from large riverine flooding due to the Mississippi, Black and La Crosse Rivers, to overland flash flooding from water running off the bluff land through the coulees, to the even more complex basement flooding due to groundwater infiltration issues in the lower lying areas of the City.

SEH is intimately familiar with the flood hazards in and around the City of La Crosse. We have listened to the City's residents at floodplain committee meetings, along with studying and completing numerous mapping and modeling studies in and around the City of La Crosse and surrounding communities. We have summarized our project approach based on three distinct phases:

1. Understanding of Flood Hazards and Flood Risk Assessment
2. Goals and Objectives Setting
3. Strategies, Funding and Tools

These three phases will drive the process as we address the five tasks outlined in the RFP and summarized below.

- **TASK 1:** Preparation of all planning documents, studies, maps and other relevant material associated with, and the writing of, the Flood Hazard Mitigation Plan consistent with the requirements of 44 CFR §201.6, including completion of a risk assessment and development of a mitigation strategy including programmatic, non-structural, and structural mitigation actions.
- **TASK 2:** Attendance at meetings with the FHMP, facilitation of discussion at said meetings, and review of work products and findings during the FHMP plan process
- **TASK 3:** Creation and management of the public engagement process, including the development and administration of online surveys and analysis of survey results/feedback
- **TASK 4:** Presentation of the FHMP document and findings to the City Plan Commission, presentation may also be required to the City Council
- **TASK 5:** Revisions to the Draft FHMP document which shall comprise the final document(s), and transmittal of all deliverables to the City

Based on our experience implementing successful floodplain management and flood mitigation plans, we believe a "big picture" approach will be key to overall project success. We recommend the flood mitigation plan be achieved by following the 'Floodplain Management Planning' CRS Activity 510 approach.

Based on our experience implementing successful floodplain management and flood mitigation plans, we believe a "big picture" approach will be key to overall project success.

This will both satisfy the FEMA minimum requirements for flood mitigation plans outlined in the CFR, and will also provide the potential for almost 400 CRS points to the City for completion of the plan. We will follow this approach while completing a floodplain management plan that follows the tasks outlined in the RFP and FEMA and CFR guidelines and documentations.

When we say "big picture," we mean that an effective plan must result in measurable/perceivable results. We have followed a similar, proven approach to all our floodplain management and flood mitigation plans, and have outlined the three key phases below.

UNDERSTANDING OF FLOOD HAZARDS

A key to developing strategies and approaches is to properly understand the areas and types of flood risks. For instance, in many parts of the City's at-risk floodplain properties, basement flooding due to high groundwater is a serious issue (and not an issue that is typically accounted for in traditional flood mitigation planning).

Understanding the problem, communicating with the public and identifying appropriate strategies to address the various water resources issues will be part of this plan's process.

In this context, developing flood mitigation strategies for only surface water would be short-sighted and may not result in the anticipated flood risk reduction. The plan will also need to account for a groundwater mitigation strategy.

Our approach will be to step back and take a higher level view of the City's flood risks as part of the Risk Assessment. We will start with a review of the multitude of flood information the City has - interviewing City staff, the public and local agency staff.

We will then break up the City into more manageable flood risk areas based on location, flooding source, flood risk or other factors as appropriate. Based on a cursory review of the overall flood risks in the City, this may consist of the following flood risk areas as a start:

- Mississippi River
- Urban
- Bluffs/Coulees
- Miss-Black-La Crosse River
- La Crosse River Marsh areas

We will present an understanding of the flood hazards for each flood risk area that will include a review of available mapping and modeling to gauge whether or not available information sufficiently identifies the underlying flood risks for the area. Similar to the ongoing SEH Ebner Coulee flood study, we want to make sure the flood risk is appropriately understood and identified prior to moving forward with any potential mitigation planning or strategy development.

This will include a survey of the City's residents (similar to what we completed in the Ebner Coulee neighborhood) to develop an understanding of the nature and magnitude of flood risks, historic issues, mitigation strategies, and flooding concerns of the City's residents.

GOAL AND OBJECTIVES SETTING

Developing a collaborative approach to setting effective and implementable goals and objectives is key to the underlying success of the floodplain management plan. The goals and objectives for the plan will be built from the identified flood risks and flood related problems identified during the initial phase of the project.

It is likely that the goals and objectives will vary amongst the different flood risk areas of the City due to underlying land use and flood risk types. Our team will work with the Flood Hazard Mitigation Plan steering committee and City Technical Advisory Committee to identify and develop an appropriate list of potential goals and objectives for the City as a whole along with each of the various flood hazard areas.

Deciding the appropriate balance in the goals and objectives of the floodplain management plan will guide the overall plan development. The goals and objectives will also integrate existing planning mechanisms as appropriate, such as comprehensive plans, to ensure the final Flood Hazard Mitigation Plan is recognized by FEMA as a Community Rating System (CRS Activity 510) credited Flood Mitigation Plan.

The goals developed will also consider all phases of the emergency management cycle - mitigation, preparedness, response and recovery. This is important as the plan moves from goal and objective setting to the development of strategies for reducing flood risk.

MITIGATION STRATEGY, FUNDING AND TOOLS

Together with the City, we will develop strategies and tools to move the identified goals and objectives forward. We will combine the identified strategies with available funding programs to help ensure the Flood Hazard Mitigation Plan does not just "sit on the shelf," but instead serves as a useful guide to reduce flood risks for the City.

Our team will develop a wide range of strategies, considerations and approaches, consistent with CRS planning requirements. Project alternatives and strategies will consider six categories as identified by the CRS program:

1. Preventative measures
2. Property protection
3. Natural resources protection
4. Emergency services
5. Structural flood control projects
6. Public outreach and education

We will work with the City to examine cost and benefits for proposed strategies and actions, overall impact and effectiveness, feasibility and timelines. This will include an examination of proposed actions as well as measures currently utilized by the City.

We will also include a discussion of currently available funding programs and mechanisms, along with a discussion of which strategies and actions may qualify for each potential funding program.

The final Flood Hazard Mitigation Plan will document the range of strategies and project alternatives considered for each flood risk area of the City and how these strategies will (or will not) be incorporated in the Flood Hazard Mitigation Plan. Consistent with CRS planning requirements, the strategies and actions will include both those recommended for implementation as well as those projects deemed to be unrealistic, cost prohibitive or unnecessary for the City.

Our plan will also outline the annual update process and procedures to ensure the plan is maintained as a living document while also identifying any new potential funding sources or activities.

Finally, based on the feedback of stakeholders, current City activities, and the mitigation strategy, the planning process will identify opportunity areas for the City to obtain additional CRS points for ongoing or planned public engagement and other mitigation actions resulting from the mitigation strategy.

> **A SUCCESSFUL FLOOD HAZARD MITIGATION PLAN IS A COMMUNITY-DRIVEN, LIVING DOCUMENT. THE PLANNING PROCESS IS AS IMPORTANT AS THE RESULTING PLAN BECAUSE IT ENCOURAGES COMMUNITIES TO INTEGRATE MITIGATION WITH DAY-TO-DAY DECISION MAKING REGARDING LAND USE PLANNING, FLOODPLAIN MANAGEMENT, SITE DESIGN, AND OTHER FUNCTIONS.**
>
> **- FEMA**

PUBLIC ENGAGEMENT PROCESS

A key component of this Floodplain Hazard Mitigation Plan is the public discussion which occurs about creating a safer, more disaster-resilient community. Our approach to public engagement will be tailored to support what we have outlined as the three distinct phases of the project and is detailed within this section.

It will be crucial to the overall success of the planning efforts and the technical components of the flood mitigation to incorporate public outreach throughout the three phases. A plan which incorporates the community's values and priorities will be more successfully implemented, as it will have community "buy-in."

Our overall engagement process is built on the following elements:

- **FHMP Steering Committee and City Staff Technical Advisory Committee –** To get the most out of the time with these committees, we will put careful consideration into the purpose, organization and content of meeting agendas and activities, then follow up with diligent recording of key themes and decisions.
- **Project website/GIS Storymap –** We will develop a project website or storymap in coordination with the City of La Crosse website throughout the process to keep the community, stakeholders and officials informed and notified of progress and summaries.
- **Community Survey –** We will use an online flood survey to gather a full understanding of the flood issues, challenges and risks facing La Crosse citizens. Similar to the survey tool employed in the Ebner Coulee project, this survey will be developed to target specific questions or issues for community input and areas to focus on during development of the FHMP.
- **City Staff Interviews –** To develop an understanding of the institutional knowledge within the City, we will hold small group interviews with key staff (planning, engineering, public works) to summarize flooding issues, concerns and ideas.
- **Community Meetings (Virtual) –** In the age of COVID, we have learned that virtual meetings may allow for a means to reach out to members of the community who may not typically attend physical, in-person meetings. If the environment allows, we will conduct both in-person and virtual meetings with the community to share information and allow for community input.
- **Flood Talks –** We will plan to hold a series of technical flood talks to raise the awareness and understanding of community stakeholders and to also outline and educate the community as a whole in various mitigation ideas and strategies throughout the industry.

Potential Flood Talk topics include:

- Floodplain Management/Flood Risk 101
- Natural and Beneficial Functions of Floodplains
- Flood Risk Reduction Strategies
- Structural and Non-Structural Flood Mitigation
- Green Infrastructure and Resiliency Planning
- Funding Programs

Incorporating public engagement through a flood resiliency tournament is another way to develop specific community-lead strategies and public support of the implementation process.

We have outlined how the engagement tasks will potentially fall within the three key phases of the development of the FHMP on the following page. Our team will work together with the City to determine the best strategies to get input and buy-in from stakeholders to make certain the FHMP meets your long-term needs.

SUCCESSFUL OUTREACH:

1. Informs and educates about hazards and risks
2. Invites interested parties to contribute their views and ideas for mitigation
3. Identifies conflicts and incorporates different perspectives and priorities early in the process
4. Provides data and information that improves overall quality and accuracy of the plan
5. Ensures transparency and builds trust
6. Maximizes opportunities for implementation through greater consensus and acceptance

Source: Local Mitigation Planning Handbook, FEMA

Public engagement that is inclusive and open to stakeholders, community members and technical advisors is essential to the process and the plan's ability to develop meaningful goals and objectives for a more resilient community.

UNDERSTANDING OF FLOOD HAZARDS AND FLOOD RISK ASSESSMENT

The focus of this phase will be building and documenting a comprehensive understanding of the range and types of flood hazards facing the community. This will establish a foundation of community awareness of flood hazards, range of flooding issues reported, and concerns surrounding flooding in the community.

GOALS AND OBJECTIVES SETTING

Engagement during this phase of the project will begin once we have developed a thorough understanding of the flood hazards in the community. Public engagement that is inclusive and open to stakeholders, community members and technical advisors is essential to the process and the plan's ability to develop meaningful goals and objectives for a more resilient community. To deliver this type of valuable engagement in this phase, we will provide the following:

- Virtual public meetings
- Educational floodplain talks
- FHMP Steering Committee and City Staff Technical Advisory Committee meetings
- Continued use and updates of the project website and GIS Storymap

The plan will describe policies and specific actions to support and implement community goals.

MITIGATION STRATEGY, TOOLS AND FUNDING

With the goals and objectives established, we will then develop strategies to articulate how the FHMP will be implemented. These outreach efforts will be focused around the following:

- Community visioning tools
- Virtual public meetings
- FHMP Steering Committee and City Staff Technical Advisory Committee meetings
- Continued use and updates of the project website and GIS Storymap

Implementation of strategies to help La Crosse become more resilient is dependent on funding. FEMA's newest grant program, Building Resilient Infrastructure and Communities, or BRIC, acknowledges the importance of helping communities become more resilient, and has allocated significant funds towards hazard mitigation projects.

The main purpose of these funds is to help communities design and construct resilient infrastructure that results in risk reductions. However, these funds can also be applied to hazard mitigation planning processes. Formally known as advanced assistance, the BRIC Program employs pre-project scoping, where costs associated with developing a grant application can be reimbursed by the grant itself. The preparation of a Hazard Mitigation plan that identifies infrastructure improvements eligible for BRIC funding may also become eligible for retroactive assistance by the BRIC program.

As the City of La Crosse develops and drafts its Hazard Mitigation Plan, we recommend actively evaluating how objectives outlined in the plan can align with FEMA's newest grant program. Actively aligning the hazard mitigation plan with the BRIC program will help the La Crosse community add a potential funding source for realizing your resiliency goals.

MEETING 44 CFR 201.6

Throughout the planning process, our team will periodically perform quality control checks and review FEMA's Local Mitigation Planning Handbook, which clearly identifies Federal regulations of 44 CFR 201.6, that must be met before FEMA will approve a local hazard mitigation plan.

Our project team includes the hazard mitigation and emergency planning expertise of JEO. They bring more than 12 years of experience with mitigation planning and floodplain management, and they have developed flood mitigation plans for a number of communities that participate in the Community Rating System as part of the community's participation in Hazard Mitigation Plan updates. Key plan participants include the City of Omaha, City of Lincoln, and City of Fremont.

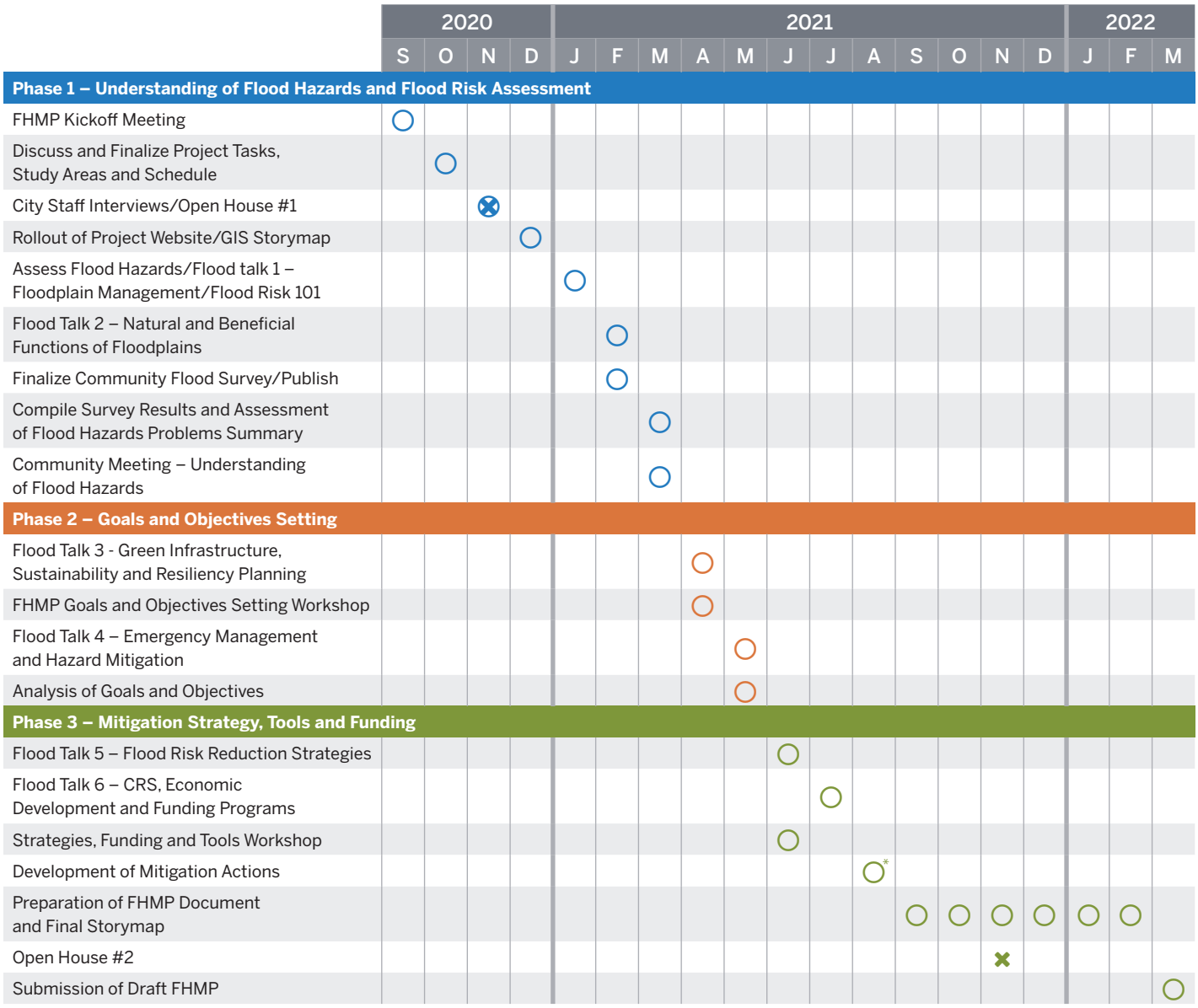
PROPOSED SCHEDULE

We are available to begin work as soon as a contract is approved. We have a proven track record of completing projects on time and within the budget. Our success in meeting rigid deadlines may be best shown through our past successful delivery of multiple projects with Fort McCoy and the USACE St Paul District. In addition, JEO regularly works on projects with formal and rigid periods of performance. For hazard mitigation planning projects, JEO is able to complete these projects well within the required grant timeframes. Typical planning processes for the update of complete, regional all hazard plans require approximately 12 months; the grant timeline allows up to 36 months for completion. The required completion of the City of La Crosse Flood Hazard Mitigation Plan (completion expected by late 2022) is completely realistic.

THE FOLLOWING PROJECT SCHEDULE HAS BEEN PREPARED ASSUMING A NOTICE TO PROCEED OF SEPTEMBER 2020.

FOR A CRS PLAN, TO MAXIMIZE POINTS, THE FIRST OPEN HOUSE NEEDS TO BE WITHIN 2 MONTHS OF STARTING THE PLAN.

✖ = Open House



** It is ideal to get draft mitigation actions in this timeframe, as this will set up the City to pursue FEMA BRIC/FMA funding with the next funding cycle.*


FEE

Fee

Based on the identified tasks, we estimate the following fees (not to exceed $149,710):

		SEH											JEO					
		Woznak	Grace/Day	Mondloch/ Thole	Constant	Randle	Botich	Olson	Sauter	Wilde	Tomesh	Staff	Callen	Appleford	Baker	Seachord	Fricke	
	Tasks	PM/Sr. Floodplain Manager	Sr. Planner	WR/ Floodplain Engineer	GIS/Comm Planner	Sr. Urban Planner	Sr. Eco-nomic Dev.	Sr. Environ. Engineer	Hydro-geologist	Floodplain Biologist	Civil Engineer	Admin Assistant	CRS Expert	Sr. Planner/ HMEP	FEMA Funding Specialist	Planner/ HMEP	Sr. Specialist	Total
1	Plan Preparation	16	40	40	50	16	4	4	4	16	4	12	40	60	40	70	10	
	Total for Task 1	**16**	**40**	**40**	**50**	**16**	**4**	**4**	**4**	**16**	**4**	**12**	**40**	**60**	**40**	**70**	**10**	**$61,216**
2	FHMP Steering Committee and City Staff Technical Advisory Committee Facilitation	20	20	8	8	4	2	-	-	4	-	4	20	20	10	10	4	
	Total for Task 2	**20**	**20**	**8**	**8**	**4**	**2**	**0**	**0**	**4**	**0**	**4**	**20**	**20**	**10**	**10**	**4**	**$21,356**
3	Public Engagement Process	20	40	16	40	6	4	-	-	8	-	-	20	30	10	30	8	
	Total for Task 3	**20**	**40**	**16**	**40**	**6**	**4**	**0**	**0**	**8**	**0**	**0**	**20**	**30**	**10**	**30**	**8**	**$33,832**
4	Presentation of the FHMP document and findings to the City Plan Commission, Common Council	8	12	-	-	-	-	-	-	-	-	-	8	8	-	-	-	
	Total for Task 4	**8**	**12**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**8**	**8**	**0**	**0**	**0**	**$6,144**
5	Completion and Delivery of FHMP Documents	10	10	40	40	4	-	-	4	4	-	8	12	20	-	6	6	
	Total for Task 5	**10**	**10**	**40**	**40**	**4**	**0**	**0**	**4**	**4**	**0**	**8**	**12**	**20**	**0**	**6**	**6**	**$22,162**
	Total Hours	**74**	**122**	**104**	**138**	**30**	**10**	**4**	**8**	**32**	**4**	**24**	**100**	**138**	**60**	**116**	**28**	**$144,710**

EXPENSES	$5,000
LABOR COST	$144,710
TOTAL FEE	$149,710

APPENDIX – RESUMES

BRAD WOZNAK PE, PH, CFM

PROJECT MANAGER/SENIOR FLOODPLAIN MANAGER | **SEH**

Brad is a project manager/lead hydraulic engineer with extensive experience with SEH in water resources, hydraulic and hydrologic analysis, watershed modeling, bank and channel stabilization, floodplain analyses and preparation of detailed plans and specifications. He has been involved with multiple aspects of flood mitigation studies and projects throughout the Midwest, has served as the lead hydraulic engineer for several USACE flood mitigation projects and has also led Independent External Peer Reviews on flood mitigation projects designed by other consultants.

EXPERIENCE

Ebner Coulee Study and FEMA Letter of Map Revision – La Crosse, WI
Project manager and senior hydraulic engineer on the project. This project focused on performing an assessment of the effective floodplain mapping and underlying flood hazards and evaluation of whether revised hydrologic methods warrant pursuit of a Letter of Map Revision (LOMR) from FEMA. Based on the results of the initial phases the project continued with several additional phases including the formal LOMR submittal to officially update the floodplain mapping to better reflect the underlying flood risk of the area.

Cantonment-Wide Stormwater Master Plan (US Army - Fort McCoy) – Fort McCoy, WI
Project included the development of a comprehensive cantonment-wide 2D hydrologic and hydraulic model, master-level planning of storm water management with a primary focus on flood mitigation, and the creation of a set of design guidelines for storm water management to be used as part of Ft. McCoy's Cantonment Area Infrastructure Transportation Plan. Design requirements included a groundwater monitoring plan, installation of groundwater monitoring wells and a cantonment-wide topographic survey.

Deep River Flood Risk Management Plan – Hobart, IN
Lead floodplain and hydraulic engineer on the project. SEH completed the flood risk management study for the City of Hobart and the Little Calumet River Basin Development Commission. The goal of the project was to develop a comprehensive flood risk management plan to benefit the City of Hobart and downstream communities along Deep River. This project included evaluating water quality and sediment management techniques in addition to structural and non-structural flood risk management alternatives.

East Grand Forks Interior Flood Control Study (USACE - Saint Paul District) – East Grand Forks, MN
Hydrologic and hydraulic engineer developed hydrologic models for East Grand Forks and the point area south of East Grand Forks within the project area. Brad also performed economic analysis to determine the most cost-effective facilities for both gravity and blocked gravity conditions. Detailed design included sizing gravity outlets, interceptor sewers, drainage ditches and pumping stations to convey runoff from within the areas protected by the flood risk reduction project.

Brad will serve as the project manager and will be responsible for ensuring the FHMP meets the City's schedule and the City's long-term goals and expectations.

23
YEARS OF EXPERIENCE

EDUCATION

Bachelor of Science
Civil Engineering
University of Minnesota-Minneapolis

REGISTRATIONS/CERTIFICATIONS

Professional Engineer in WI, CO, IA, IN, MN, NE and SD

Hydrologist, American Institute of Hydrology

Certified Floodplain Manager (CFM)

PROFESSIONAL ASSOCIATIONS

Association of State Floodplain Managers, Inc., Member

Minnesota Association of Floodplain Managers, Member

North Main Area Flood Risk Management – Austin, MN
Program manager responsible for oversight of the team, budget and schedule. From concept to completion, SEH worked with the City of Austin on a number of flood risk management projects along the Cedar River. The fundamental goal of the project, considering the City's history of devastating floods, was to implement flood control measures. Final project estimated at $15 million includes levees, floodwalls, road closures and invisible floodwall (removable floodwall to maintain view of the local mill pond during non-flood events).

Crookston Flood Risk Management and Bank Stabilization (USACE - Saint Paul District) – Crookston, MN
Lead hydraulics engineer. This project involved the design and construction of 6,000 ft. of levees for the Woods Addition in Crookston. Seepage analyses were completed using finite element modeling. Seepage berms and toe trench drains were designed to reduce uplift and seepage at the toe of the levees. Six mechanically stabilized earth walls were designed and incorporated into the levees in areas to protect existing homes.

Independent External Peer Review (IEPR) for Flood Protection Systems
Senior Hydrologic and Hydraulic Engineer on the multiple IEPR projects approved by the US Army Corps of Engineers for major modification of Federal flood protection systems or high hazard potential. Brad was responsible for leading the IEPR team and also completion of the review related to the project hydrologic and hydraulic design.

- Traverse City, MI – Type II, Safety Assurance Review of design by AECOM, Great Lakes Fishery Commission, USACE Detroit District.
- Waterloo, NE – Type II, Safety Assurance Review of design by JEO Consulting Group, Inc., USACE Omaha District.
- Hooper, NE – Type II, Safety Assurance Review of design by JEO Consulting Group, Inc., USACE Omaha District.
- Columbus, NE – Type II, Safety Assurance Review of design by JEO Consulting Group, Inc., USACE Omaha District.
- Oslo, MN – Type II, Safety Assurance Review of design by Barr Engineering Company, USACE St. Paul District.
- Alvarado, MN – Type II, Safety Assurance Review of design by Barr Engineering Company, USACE St. Paul District.

Letter of Map Revision (LOMR) – City of Arcadia, WI
Project Manager and Lead Hydraulic Engineer responsible for conducting hydraulic analyses of the Trempealeau River associated with Floodway modifications related to the Ashley Furniture plant expansion. The MT-2 application was prepared and submitted to the Wisconsin DNR and FEMA and the LOMR to officially update the FIRM was received.

Lowertown Flood Mitigation Study and Flood Fight – City of St. Paul, MN
Brad was responsible for hydraulic design oversight on a study to investigate the flood protection alternatives for the Lowertown neighborhood in the City of St. Paul. Alternatives include permanent flood protection and flood proofing of individual properties. Recommended permanent flood protection facilities include a combination of levees, floodwall, and seepage drains. Estimates of construction costs for each alternative were prepared and a report with a summary of the findings was prepared to aid the City in the pursuit of funding for the project.

Consulting Floodplain Manager/Engineer Experience

- Burnsville, MN - Assist the City in project reviews and administration of the City, state and federal regulations with respect to building, development, and levees.
- Windom, MN – Assisted the City with review, interpretation and comment correspondence with FEMA as part of the map modernization process for the City.
- Hudson, WI – Prepared a St. Croix River Floodway Study to identify potential areas of effective flow to assist the City in floodplain administration of a general floodplain district through its downtown area.
- Afton, MN - Assisted the City in project reviews and administration of the City, state and federal regulations with respect to building, development, flood mitigation projects and levees.

BREA GRACE AICP

LAND USE PLANNER/PUBLIC ENGAGEMENT FACILITATOR | **SEH**

Brea is an experienced urban planner, having worked in both the public and private sectors. This work has involved issues surrounding land use, economic development, the environment and transportation as well as engaging the public in decisions about their communities. Brea has facilitated large and small group discussions as well as public meetings and design charrettes/workshops. Having managed multiple large and small planning and infrastructure improvement projects over her 20 year career, she is a creative thinker who is passionate about urban and waterfront redevelopment and downtown revitalization creating unique urban places. Brea is an adept problem solver, implementing solutions that are workable for all parties while maintaining the integrity of the original goals. Additionally, Brea has more than 20 years of experience in mapping and using Geographic Information Systems (GIS) software.

Brea will lead the overall planning and community development efforts. She will also be responsible for public meetings and community engagement for the project.

EXPERIENCE

2019-2029 Comprehensive Plan Update – City of Hudson, WI
Brea is the project manager and lead planner for this Comprehensive Plan Update, with an anticipated completion date of December 2020. She is leading a multidisciplined team of specialists that spans community and land use, market analysis and economic development, civil engineering, transportation, GIS and innovative public engagement. Through rigorous public engagement strategies that include in-person meetings, community forums and interactive web based tools, Brea and the SEH team are helping the City create a living document that bridges generations. The plan identifies community issues, opportunities and needs that facilitates land use decisions and effective use of community resources in achieving the community's long-term vision.

Rochester Land Use Plan Update – Village of Rochester, WI
Project manager and lead planner. The Village of Rochester hired SEH to engage the public, Village Board and Committee members to establish a 20-year vision and goals for the Village. Brea is helping to develop an updated Land Use Plan that includes a balanced mix of land uses and the benefits and costs of infrastructure expansion.

Comprehensive Plan Update – Village of Yorkville, WI
Lead community planner. The Village of Yorkville hired SEH to create an I-94 Corridor Master Plan and a 2050 Comprehensive Plan. Development pressures facing the community, including the development of the Foxconn Campus, have spurred the Village to solicit public input and develop both plans concurrently.

Main Street Funding Assistance – City of Waupaca, WI
Project manager and grant writer responsible for leading the City through a $2.5 million U.S. DOT-BUILD Transportation Discretionary Grant request on behalf of the City. The City of Waupaca hired SEH to provide funding services for their Main Street Reconstruction project for infrastructure improvements including roadwork, stormwater management, pedestrian amenities and historic lighting along Waupaca's Main Street.

21
YEARS OF EXPERIENCE

EDUCATION

Master of Science
Urban and Regional Planning
University of Wisconsin-Madison

Bachelor of Arts
French
University of Wisconsin-Stevens Point

REGISTRATIONS/CERTIFICATIONS

FEMA/Emergency Management Institute. Incident Command System Courses: ICS-100, ICS-200, ICS-300, ICS-400, IS-00700.a, IS-00800.b

Charrette System Certified, National Charrette Institute

Soil Erosion Inspector, State of Wisconsin Department of Safety and Professional Services

Certified Planner (AICP), American Planning Association

PROFESSIONAL ASSOCIATIONS

American Planning Association, Member

Wisconsin and Minnesota Chapters of American Planning Association, Member

Congress for New Urbanism, Member

Krier Foods Warehouse Analysis and Expansion – Random Lake, WI
Lead funding specialist completing a TIF feasibility analysis and a successful parks planning stewardship grant application, supporting the expansion efforts of Krier Food. Krier Foods hired SEH to complete a feasibility study for a new 100,000 sq. ft. distribution warehouse and office headquarters, as well as site surveying and design, environmental review, geotechnical investigation, traffic engineering and parks planning adjacent to the selected site. SEH has assisted with annexation planning and the creation of a tax increment district. As part of this private contract, the client is also looking to SEH to find funding opportunities for the Village to expand its economic development efforts.

Village Engineering – Village of Baldwin, WI
Lead planner responsible for completing an I-94 Industrial Park expansion analysis to determine optimal layout for the subdivision of lands in Baldwin's industrial park. The analysis considered wetlands, topography and zoning limitations. Brea provided infrastructure funding options and a recommended timeline for implementation, allowing the City and developers to understand site limitations and to proactively plan for construction.

I-94 Corridor and 2050 Comprehensive Plan – Town of Yorkville, WI
Lead community planner. The Village of Yorkville hired SEH to create an I-94 Corridor Master Plan and a 2050 Comprehensive Plan. Development pressures facing the community including the development of the Foxconn Campus, have spurred the Village to solicit public input and develop both plans concurrently.

Tax Incremental Financing (TIF) Planning – City of Ladysmith, WI
Project manager. SEH provided TIF planning services to help the City close one Tax Increment District (TID), remove property from another TID through a formal territorial amendment and create a new TID to redevelop a former elementary school.

Highway 35 Utility Replacement SDWL and CWF Improvements – Village of Stoddard, WI
Grant writer for the Safe Drinking Water Loan Program and Clean Water Fund Program. The Village hired SEH to help them with developing a plan for their financing utility replacement through these funding programs, in parallel to the WisDOT reconstruction of Highway 35 through Stoddard's downtown.

Wisconsin Avenue SDWL Improvements – Village of Grantsburg, WI
Lead planner and funding specialist providing professional guidance and community strategy for funding new Well 2. Under Brea's leadership, SEH assisted the Village with applications through the WDNR Safe Drinking Water Loan (SDWL) Program and a CDBG-Public Facilities Program through Wisconsin Department of Administration (WDOA) to fund this $1.2 million project critical to safe drinking water in the Village.

ADDITIONAL EXPERIENCE PRIOR TO JOINING SEH:

- Zoning and Floodplain Administrator – Onalaska, WI
  Zoning enforcement and floodplain management. Assisted with update to La Crosse County Hazard Mitigation Plan.
- Zoning and Floodplain Administrator – Ashland, WI
  Zoning enforcement and floodplain management. Assisted with update to Ashland County Hazard Mitigation Plan.
- Master Plan Update for Roaring Fork River - Town of Basalt, CO
  In response to 1995 flooding of the Roaring Fork River, analyzed and mapped gradual changes in the floodplain, floodplain analysis and water quality/stormwater recommendations.
- GIS Data Development for Stormwater Utility - Monona, WI
  Compiled property assessment, impervious groundcover and slope information to assist with the creation of the Stormwater Utility.

RANDY SANFORD PE
CLIENT SERVICE MANAGER | **SEH**

26
YEARS OF EXPERIENCE

Randy is a project manager with extensive civil engineering experience working with large and small communities throughout Wisconsin. Randy provides professional engineering judgment and helps to identify the specific needs of a community and works to find an overall project solution from infrastructure to financing. Projects include urban street design, storm sewers, highway geometrics, highway drainage, stormwater management, and pavement design, water treatment plants, water main, sanitary sewer, supervisory control and data acquisition (SCADA), lift stations, booster stations, ground storage reservoirs, municipal wells and detention ponds. Other related projects Randy has worked on include, residential and commercial subdivision design, construction management, staking, topographic surveys and construction inspection.

EXPERIENCE

- River Point District Project (formally Riverside North Development) – La Crosse, WI
- Cantonment-Wide Stormwater Master Plan (US Army - Fort McCoy) – Fort McCoy, WI
- Niedbalski Bridge Rehabilitation – La Crosse, WI
- Wilson Street Crossing at McGrogan Creek – Thorp, WI
- Trail Stream Crossings - (US Army - Fort McCoy) – Fort McCoy, WI

EDUCATION
Bachelor of Science
Civil Engineering
University of Wisconsin-Platteville

REGISTRATIONS/CERTIFICATIONS
Professional Engineer in WI

PROFESSIONAL ASSOCIATIONS
American Water Works Association, Member

Wisconsin Rural Water Association, Member

Wisconsin Water Association, Member

JORDAN THOLE PE, CFM
FLOODPLAIN ENGINEER | **SEH**

8
YEARS OF EXPERIENCE

Jordan is a project engineer with experience in municipal and industrial wastewater and water resource projects. Jordan has developed numerous storm water management plans, sanitary comprehensive plans and flood protection studies. As a former Wisconsin Department of Natural Resources floodplain and dam safety engineer, Jordan has experience as a technical resource for zoning administrators for FEMA's letter of map change process, and the proper implementation of FEMA's and the State of Wisconsin's floodplain rules and regulations.

EXPERIENCE

- Ebner Coulee Floodway LOMR – La Crosse, WI
- CR 114 Flood Study – Minnehaha County Highway Department, MN
- Nine Mile Creek Regional Trail Hwy 169 Underpass – Three Rivers Park District, MN
- 8th Avenue Trail Stormwater Pond Expansion – Forest Lake, MN
- TH 12 Regional Stormwater Modeling – Litchfield, MN*

**Prior to joining SEH*

EDUCATION
Bachelor of Science
Environmental Engineering
University of Wisconsin-Platteville

REGISTRATIONS/CERTIFICATIONS
Professional Engineer in WI, IA, MN, MT, NM, OR and SD

Certified Floodplain Manager (CFM)

PROFESSIONAL ASSOCIATIONS
Minnesota Association of Floodplain Managers, Vice-Chair

RILEY MONDLOCH PE, CFM
FLOODPLAIN ENGINEER | **SEH**

5
YEARS OF EXPERIENCE

Riley is a water resources engineer with experience with various modeling techniques. His project experience includes leading floodplain analysis and mitigation design tasks and supporting a number of other water resources tasks. He has worked on software including ArcGIS, HEC-RAS, HEC-GeoRAS, XPSWMM, HydroCAD, AutoCAD and Microsoft Office Suite. Riley has extensive 2D modeling experience using XPSWMM, HEC-RAS and SRH-2D.

EXPERIENCE

- Ebner Coulee Floodway – La Crosse, WI
- Cantonment-Wide Stormwater Master Plan (US Army - Fort McCoy) – Fort McCoy, WI
- Lake Station Flood Mitigation Project (Little Calumet River Basin Development Commission) – Lake Station, IN
- Dorland Area Stormwater – Maplewood, MN
- Cantonment Area Drainageway Study (US Army - Fort McCoy) – Fort McCoy, WI

EDUCATION

Master of Science
Civil/Environmental Engineering
(Emphasis: Hydraulics, Hydrology, Water Resources Engineering)
University of Iowa-Iowa City

Bachelor of Science
Environmental Engineering
University of Wisconsin-Platteville

REGISTRATIONS/CERTIFICATIONS

Professional Engineer in MN

Certified Floodplain Manager (CFM)

DAN FRICKE PE, CFM
SENIOR FLOODPLAIN ENGINEER | **JEO**

17
YEARS OF EXPERIENCE

Dan is a senior project engineer in the Water Resources Engineering department at JEO. For the bulk of his professional career, Dan's focus has been large-scale flood risk reduction evaluations and strategy development for communities in Nebraska and Iowa. Dan has experience in hydrologic and hydraulic analyses including riverine systems, interior drainage based on joint probability, and USACE risk and uncertainty analyses associated with flood risk reduction improvements. Dan is currently serving as project manager and lead project engineer on a number of levee and flood risk reduction projects.

EXPERIENCE

- Urban Drainage Watershed Planning – City of Lincoln, NE
- Multiple Section 408 Levee Improvements Feasibility, Design, and Construction – Waterloo, Hooper, Columbus, and Howells, NE
- Levee Program and Flood Risk Assessment – City of Council Bluffs, IA
- Emergency Assessment of the Platte River Upstream of Fremont (State Emergency Response Team) – Fremont, NE
- Salt Creek System-Wide Improvement Framework (Lower Platte South Natural Resources District) – Lincoln, NE

EDUCATION

Bachelor of Science
Civil Engineering
University of Nebraska

REGISTRATIONS/CERTIFICATIONS

Professional Engineer in IA, ID, NE and WY

Certified Floodplain Manager (CFM)

BRUCE OLSON PE

SENIOR ENVIRONMENTAL SCIENTIST | **SEH**

28 YEARS OF EXPERIENCE

Bruce has 22 years of environmental consulting engineering experience, including management of environmental engineering technical support on all phases of transactional, hazardous waste, and contaminated sites projects. He has technical experience in various environmental projects and has served as the Project Manager and/or Lead Professional in conducting and preparing Phase I and II Environmental Site Assessments (ESAs), Compliance and other Due Diligence Assessments, Baseline Environmental Assessments, and Site Investigations and Closures. Bruce has prepared associated documents including Phase I and II ESA Reports, Compliance Manuals, Stormwater Plans, Corrective Action Plans, Closure Reports, Site Health and Safety Plans, Operation and Maintenance (O&M) manuals, permits and proposals.

EXPERIENCE

- River Point District Project (formally Riverside North Development) – La Crosse, WI
- Storm Water Pollution Prevention Plan Update (US Army - Fort McCoy) – Fort McCoy, WI
- Resource Conservation and Recovery Act Facility Investigation (WRR Environmental Services Co Inc) – West Central Wisconsin, WI
- Various; Multiple Services (La Crosse County Solid Waste) – La Crosse, WI

EDUCATION

Bachelor of Science
Chemical Processing Engineering
University of Minnesota-Duluth

REGISTRATIONS/CERTIFICATIONS

Professional Engineer in WI, IL and IN

OSHA HAZWOPER Supervisor

OSHA 40 Hour HAZWOPER

PROFESSIONAL ASSOCIATIONS

National Society of Professional Engineers, Member

RYAN SAUTER

HYDROGEOLOGIST/ENVIRONMENTAL SCIENTIST | **SEH**

15 YEARS OF EXPERIENCE

Ryan is a senior scientist with extensive environmental consulting experience. Ryan brings a background in hazardous waste management, construction stormwater compliance, due diligence, general hydrogeology and groundwater remediation.

EXPERIENCE

- River Point District Project (formally Riverside North Development) – La Crosse, WI
- Industrial Compliance Services (Trane Company) – La Crosse, WI
- Environmental Compliance (Inland Label and Marketing LLC) – La Crosse, WI
- WIS 29 Environmental Assessment (Wisconsin Department of Transportation North Central Region) – Shawano and Marathon Counties, WI
- Main Street Design – Waupaca, WI

EDUCATION

Bachelor of Science
Geology, Hydrogeology
University of Wisconsin-Eau Claire

REGISTRATIONS/CERTIFICATIONS

Asbestos Inspector, Wisconsin Department of Health Services

OSHA 8 Hour HAZWOPER (Refresher), Chicago Bridge & Iron Constructors Inc

Certified Professional in Erosion and Sediment Control (CPESC)

Erosion/Sediment Control Specialist, University of Minnesota

RENEE WILDE PWS, CFM, CWS

NATURAL FLOODPLAIN FUNCTION EXPERT | **SEH**

16
YEARS OF EXPERIENCE

Renee is an environmental scientist with experience working in areas of water and natural resources for the preservation, protection and restoration of the environment. Renee is a Professional Wetland Scientist (PWS), Certified Floodplain Manager (CFM) and a Certified Wetland Specialist (CWS). She has completed natural resources surveys, rain garden design, and wetland mitigation design and monitoring. She has permitting experience with dozens of projects involving local, state and federal agencies. Renee has extensive experience in multiple software including HydroCAD, StormCAD, HEC-RAS, HEC-1, HEC-2, WSP-2, Access Database and Floristic Quality Assessment Program.

EXPERIENCE

- River Point District Project (formally Riverside North Development) – La Crosse, WI
- Environmental Assessment and Evaluation for Stream Crossings (US Army - Fort McCoy) – Fort McCoy, WI
- CTH X Bridge over Berge Coulee Creek (La Crosse County Highway Department) – La Crosse County, WI
- STH 16 Reconstruction and Bridge Replacement (Wisconsin Department of Transportation Southwest Region) – La Crosse County, WI

EDUCATION

Bachelor of Science
Watershed Management (Minor: Soil Science)
University of Wisconsin-Stevens Point

REGISTRATIONS/CERTIFICATIONS

Professional Wetland Scientist (PWS), Society of Wetland Scientists

Certified Floodplain Manager (CFM)

Certified Wetland Specialist (CWS), McHenry County Department of Planning and Development

NATE DAY AICP

SENIOR PLANNER/FUNDING SPECIALIST | **SEH**

12
YEARS OF EXPERIENCE

Nate is a transportation planner specializing in transportation and environmental planning. Nate has worked on corridor and land use studies, project environmental documentation and transportation plans. He has experience with the public involvement process and has witnessed the positive results that well-organized community participation can bring to a transportation project. He also has experience using ArcGIS to create transportation corridor maps and public-friendly displays.

EXPERIENCE

- Coulee Region Transportation Study (Wisconsin Department of Transportation Southwest Region) – La Crosse County, WI
- La Crosse Area Planning and Environmental Linkages (PEL) Study (Wisconsin Department of Transportation Southwest Region) – La Crosse, WI
- I-90 Corridor Bicycle/Pedestrian Accommodations Coordination Report (La Crosse Area Planning Committee) – La Crosse, WI
- Main Street Funding Assistance – Waupaca, WI
- West Waterfront Public Involvement and Visioning – Sturgeon Bay, WI

EDUCATION

Master of Science
Urban Planning
University of Wisconsin-Milwaukee

Bachelor of Arts
Communications
University of Wisconsin-Milwaukee

REGISTRATIONS/CERTIFICATIONS

2018 NEPA Refresher Course, Indiana Department of Transportation Central Office

Certified Planner, American Institute of Certified Planners

PROFESSIONAL ASSOCIATIONS

American Planning Association, Member

DILLON CONSTANT

GIS ANALYST/COMMUNITY PLANNER | **SEH**

4
YEARS OF EXPERIENCE

Dillon is a community planner with experience in land use, policy, community engagement and public health. He has focused on downtown revitalization, active transportation corridors planning, capital improvements planning and GIS site suitability analysis. He has also performed municipal development review, administered and managed local ordinances, and created and managed geospatial data. He is proficient in ArcGIS, Erdas Imagine, QGIS, TerraSync and Microsoft Office software.

EXPERIENCE

- USAMC Cantonment Area Plan (US Army - Fort McCoy) – Fort McCoy, WI
- 2019-2029 Comprehensive Plan Update – Hudson, WI
- 2020 Landfill Expansion Study (La Crosse County Solid Waste) – La Crosse, WI
- GIS Mapping and Land Use Planning – Amery, WI

EDUCATION

Master of Science
Urban and Regional Planning
University of Iowa-Iowa City

Bachelor of Science
Geographic Information Systems
University of Northern Iowa-Cedar

PROFESSIONAL ASSOCIATIONS

American Planning Association, Member

ANDREA GEBHART AICP

COMMUNITY ENGAGEMENT SPECIALIST | **JEO**

7
YEARS OF EXPERIENCE

Andrea is a community engagement specialist with more than seven years of experience that works closely with all of JEO's departments. As a certified planner and experienced graphic designer, Andrea blends her creative, yet practical nature, with her robust facilitation and communication skills to help communities identify and pursue their goals. Her experience in community engagement and outreach covers a wide variety of topical areas, including transportation, strategic planning, and long-range planning.

EXPERIENCE

- East and West Nishnabotna Watershed Management and Flood Resiliency Plans (East and West Nishnabotna Watershed Management Coalitions) – Mills and Fremont Counties, IA
- Cedar River Water Trail Plan (Iowa Department of Natural Resources) – Northeast IA
- Battle Creek Watershed Improvement Project Work Plan - Environmental Assessment (Lower Elkhorn Natural Resource District) – Northeast NE
- Salt Creek System-Wide Improvement Framework (Lower Platte South Natural Resources District) – Lincoln, NE
- Flood Risk Reduction Plan and Parcel Level Flood Risk Assessment – Cities of Fremont and Schuyler, NE

EDUCATION

Masters of Community and Regional Planning, University of Nebraska

Graduate Certificate, Public Management, University of Nebraska

Bachelor of Science
Dietetics, University of Nebraska

REGISTRATIONS/CERTIFICATIONS

American Institute of Certified Planners

ALYSSA TENORIO

PUBLIC INFORMATION SPECIALIST | **JEO**

7
YEARS OF EXPERIENCE

Alyssa has more than seven years of experience serving as a public information specialist on service industry projects across the United States. Alyssa is highly skilled in community outreach and coordination, public speaking, creating collateral pieces, and internal and external publications. She has also written several featured articles for the award-winning Kieways magazine. Alyssa is proficient in cultivating public involvement teams to positively increase relationships between operations, clients, local stakeholders and businesses, and community leaders.

EXPERIENCE

- Aquatic Center Study – City of Belvidere, IL
- Cedar River Water Trail Plan (Iowa Department of Natural Resources) – Northeast IA
- Boone River Watershed Planning – Wright County, IA
- Pool Bond Information Campaign – City of Blue Hill, NE
- Hazard Mitigation Plan Update (Papio-Missouri River Natural Resources District) – Omaha, NE
- Flood Risk Reduction Plan and Parcel Level Flood Risk Assessment – Cities of Fremont and Schuyler, NE

EDUCATION

Masters Degree
Strategic Public Relations
The George Washington University

Bachelor of Arts
Communications - Radio/TV and Journalism
Stephen F. Austin State University

GARY RANDLE

SENIOR URBAN PLANNER | **SEH**

28
YEARS OF EXPERIENCE

Gary is a senior project manager and client service manager with extensive experience in civil engineering design and construction management. Gary specializes in municipal and transportation services, and uses his expertise to lead and ensure the highest quality deliverables to public and private clients. His diverse background includes project management of transportation and municipal design projects, community development design, DOT design and construction, large sewer and water plant construction, as well as projects using existing materials recycled for reuse on the same project sites. Gary is experienced in all phases of a project from preliminary studies through observation of construction. He also provides detailed project management on projects involving coordination of public and private utilities, governmental agencies and various funding sources. He is also a proud wartime veteran of the U.S. Armed Forces.

EXPERIENCE

- Downtown Master Plan – Village of Elm Grove, WI
- Woodland Praire Park Master Plan – Village of Fox Crossing, WI
- War Memorial (The Sigma Group) – Milwaukee, WI
- Great River Landing Plan – Onalaska, WI
- Little Balsam Creek (Wisconsin Department of Natural Resources) – Douglas County, WI

EDUCATION

Bachelor of Science
Business Management
University of Phoenix

REGISTRATIONS/CERTIFICATIONS

Certified Project Manager, PSMJ

Leadership Development, Harvard Business School

Local Public Agency Development,

Municipal Design and Project Management, PSMJ

PROFESSIONAL ASSOCIATIONS

American Water Works Association Wisconsin Section, Transitioning Veterans Initiative Member

DANIEL BOTICH

SENIOR ECONOMIC DEVELOPMENT PROFESSIONAL | **SEH**

33
YEARS OF EXPERIENCE

Dan is a senior economic development professional who has economic development and creative financial incentive experience in land use planning, public administration, economic development and municipal finance. Dan leads our economic development team by providing services including site selection, incentive team building and negotiation, design/build services, and industrial and commercial development planning to both municipal and private clients. Since 2012, he has also been an adjunct professor for Calumet College of St. Joseph in Whiting, Indiana teaching undergraduate micro and macro-economics and public administration/budgeting and finance management in the Public Safety Administration and Masters of Management Science programs.

EXPERIENCE

- Economic Development Project Analyses (The Greater LaPorte Economic Development Corporation) – La Porte, IN
- Redevelopment and Economic Development Planning – Town of Highland, IN
- Downtown Master Plan – Village of Elm Grove, WI
- Economic Development Consulting (City of Gary Redevelopment Commission) – Gary, IN
- Urban Renewal Authority – City of Durango, CO

EDUCATION

Master of Public Affairs
Public Administration
Indiana University Northwest School of Public and Environmental Affairs-Gary, IN

Certificate
Public Management
Indiana University Northwest School of Public and Environmental Affairs-Gary, IN

Bachelor of Arts
Urban Studies
Columbia University-New York

MARY BAKER

FEMA FUNDING SPECIALIST | **JEO**

24
YEARS OF EXPERIENCE

Prior to joining JEO, Mary worked for the State of Nebraska for more than 12 years, the last five of which were as the State Hazard Mitigation Officer for Nebraska's Emergency Management Agency. Mary has a strong knowledge of FEMA's funding requirements, policies, and grant management. Mary's strengths are in program and project management, relationship building, professional networking, as well as exemplary communication skills, both verbal and written. As an Air Force and Nebraska Air National Guard retiree, Mary is currently serving on the Natural Hazard Mitigation Association Board and is working with nationwide partners to advance mitigation and resiliency efforts at the local and state levels. Her passion is to help communities reduce their risk profile in whatever ways possible to ensure their sustainability for the future.

EXPERIENCE

- Floodplain Structure Elevations and Acquisition – City of Fremont, NE
- 2019 Flood Assistance – Village of Winslow, NE
- Floodplain Property Acquisitions – Platte County, NE
- Property Acquisitions (Papio-Missouri River Natural Resources District) – Omaha, NE

EDUCATION

Bachelor of Arts
Human Development
University of Nebraska

PROFESSIONAL ASSOCIATIONS

Natural Hazard Mitigation Association, Member

Nebraska Floodplain & Stormwater Management Association , Member

Association of State Floodplain Managers , Member

JEREMY TOMESH PE

CIVIL ENGINEER | **SEH**

20 YEARS OF EXPERIENCE

Jeremy is a senior professional engineer with transportation and civil engineering experience including planning, design and construction of highway projects. Jeremy brings technical expertise in areas of project management including planning, project scoping, budgeting and scheduling. He previously worked for WisDOT and has extensive experience and knowledge with WisDOT cost share policies, technical and administrative laws, and design software systems including Civil 3D, AutoTURN and MicroStation.

EXPERIENCE

- La Crosse Area Planning and Environmental Linkages (PEL) Study (Wisconsin Department of Transportation Southwest Region) – La Crosse, WI
- Tuscobia State Trail Washout (Wisconsin Department of Administration) – Winter, WI
- CTH X Bridge over Berge Coulee Creek (La Crosse County Highway Department) – La Crosse County, WI
- Old Town Hall Road Safe Routes to School – La Crosse, WI
- Fort McCoy Bike/Multi-Use Path (US Army - Fort McCoy) – Sparta, WI

EDUCATION

Bachelor of Science
Civil Engineering
University of Wisconsin-Madison

Certificate
Construction Management
University of Wisconsin-Madison

REGISTRATIONS/CERTIFICATIONS

Professional Engineer in WI

PROFESSIONAL ASSOCIATIONS

Wisconsin Society of Professional Engineers, Member

JOHN CALLEN PE, CFM

SENIOR PLANNER/FEMA CRS EXPERT | **JEO**

17 YEARS OF EXPERIENCE

John has 17 years of experience in flood study and flood risk management projects. As a former flood study engineer and Nebraska NFIP State Coordinator for the Nebraska Department of Natural Resources (NeDNR), John is very familiar with flood risk management requirements and standards. As NFIP State Coordinator, John served as the State lead for coordinating with communities regarding implementation of the NFIP's Community Rating System (CRS) within Nebraska. John started his career as a local floodplain manager and CRS coordinator for the City of Lincoln, NE. This experience provided a significant foundation for understanding local floodplain management.

EXPERIENCE

- Floodplain Management Policy and CRS – City of Lincoln, NE
- Upper Prairie, Silver, and Moores Creek LOMR – City of Grand Island and Hall County, NE
- Salt Creek System-Wide Improvement Framework (Lower Platte South Natural Resources District) – Lincoln, NE
- Flood Risk Reduction Plan and Parcel Level Flood Risk Assessment – Cities of Fremont and Schuyler, NE

EDUCATION

Bachelor of Science
Biological Systems Engineering
University of Nebraska

REGISTRATIONS/CERTIFICATIONS

Professional Engineer in IA, NE and SD

Certified Floodplain Manager (CFM)

PROFESSIONAL ASSOCIATIONS

Nebraska Floodplain & Stormwater Management Association, Senior Vice Chair

Association of State Floodplain Managers, Member

BECKY APPLEFORD CFM

SENIOR HAZARD MITIGATION/EMERGENCY MANAGEMENT PLANNER | JEO

12
YEARS OF EXPERIENCE

Becky is a project manager and senior planner with the hazard mitigation and emergency planning team at JEO. Becky has led the planning process for more than a dozen hazard mitigation plans across four states, covering over 500 jurisdictions. As a CFM, she's an expert in assisting CRS communities in leveraging the mitigation planning process to gain points through activity 510 Floodplain Management Plans. Becky's experience also includes public engagement, emergency preparedness plans, emergency management exercise facilitation, evacuation mapping and planning, continuity of operations plans, and watershed management plans.

EXPERIENCE

- Hazard Mitigation Plan Update (Papio-Missouri River Natural Resources District) – Omaha, NE
- East and West Nishnabotna Watershed Management and Flood Resiliency Plans (East and West Nishnabotna Watershed Management Coalitions) – Mills and Fremont Counties, IA
- Multi-Jurisdictional Hazard Mitigation Plan Update (Lower Platte North Natural Resources District) – Wahoo, NE
- Hazard Mitigation Plan Update (Lower Platte South Natural Resources District) – Lincoln, NE

EDUCATION

Master of Science
Atmospheric Science
University of North Dakota

Bachelor of Science
Meteorology/Climatology
University of Nebraska

REGISTRATIONS/CERTIFICATIONS

Certified Floodplain Manager (CFM)

PROFESSIONAL ASSOCIATIONS

Natural Hazard Mitigation Association, member

Nebraska Floodplain & Stormwater Management Association, member

BROOKE SEACHORD

HAZARD MITIGATION/EMERGENCY MANAGEMENT PLANNER | JEO

4
YEARS OF EXPERIENCE

Brooke is a hazard mitigation and emergency planner at JEO who has served as a project planner in four states and two FEMA regions. Brooke's work has included both multi- and single-jurisdictional hazard mitigation plan updates, tribal hazard mitigation plans, continuity of operations plans, levee failure emergency preparedness plans, and emergency exercises. Her specific emphasis on plan updates include improved plan development and writing, data collection and analysis, public engagement strategies, and meeting facilitation.

EXPERIENCE

- Hazard Mitigation Plan Update (Papio-Missouri River Natural Resources District) – Omaha, NE
- Hazard Mitigation Plan Update (Lower Platte South Natural Resources District) – Lincoln, NE
- Hazard Mitigation Plan – City of Beatrice, NE
- Hazard Mitigation Plan (Oglala Sioux Tribe) – NE
- Multi-Jurisdictional Hazard Mitigation Plan (Tri-Basin Natural Resources District) – Holdrege, NE
- Emergency Preparedness Plan – City of Seward, NE

EDUCATION

Bachelor of Science
Fisheries and Wildlife
University of Nebraska

Bachelor of Science
Environmental Studies
University of Nebraska

PROFESSIONAL ASSOCIATIONS

Lincoln/Lancaster County Emergency Management Volunteer Response Team, Member

Natural Hazard Mitigation Association, Member

Building a Better World for All of Us®

Sustainable buildings, sound infrastructure, safe transportation systems, clean water, renewable energy and a balanced environment. Building a Better World for All of Us communicates a company-wide commitment to act in the best interests of our clients and the world around us.

We're confident in our ability to balance these requirements.

JOIN OUR SOCIAL COMMUNITIES