

July 21, 2016

prepared for
City of Marshfield
Parks and Recreation Department

PROPOSAL
Hefko Pool
Architecture/Engineering Services



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Section 1

LETTER OF INTENT



collaborāte / formulāte / innovāte

July 21, 2016

Justin Casperson, Director
City of Marshfield – Parks, Recreation and Forestry
630 S. Central Avenue, Suite 201R
Marshfield, WI 54449

Dear Mr. Casperson:

Imagine a few years from now, when Hefko Pool is the place to be on a warm summer day. The pool is filled with people of all ages—enjoying the many amenities the pool and park have to offer, splashing in the water, relaxing in the shade of umbrellas and trees. The GRAEF team is the right team to help the City of Marshfield make this image into a reality and to turn Hefko Pool into a vibrant, active, community gathering place for the following reasons:

- **The City will receive unparalleled customer service and pool expertise as your project will be led by our Green Bay office.**
- The combination of our national exposure and local knowledge will allow you to consider the **latest national trends within aquatics and use our local knowledge to develop Opinions of Probable Construction Costs.**
- We have teamed with **Water Technology Inc.** for their **aquatics expertise**. Our team is extremely familiar with each other as we have been **working together on aquatic projects for over 20 years and have successfully collaborated on over 450 aquatic projects** throughout North America.
- The **GRAEF team does not have any personal or corporate conflict** with providing services to the City of Marshfield for the Pool Study.
- Unlike some firms, our proposal does **not tie** the Study Service Phase to any future Design Phase Services. The City will always have the option to hire any Consultant to complete the Design Phase, if it is in your best interest to do so.

We look forward to the opportunity to work with you and we are confident that we have the expertise, experience and capability to meet your needs, leading to a successful project. Please contact either of us at 920 / 592 9440 with any comments or questions regarding this proposal. Our goal is to tailor our services to meet your unique needs.

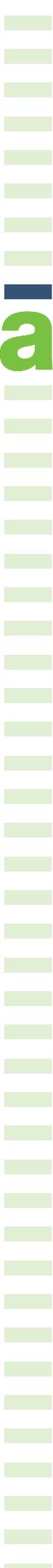
Sincerely,

A handwritten signature in black ink that reads "Patrick J. Skalecki".

Patrick J. Skalecki, P.E., CT, LEED® AP
Project Manager | Principal

Section 2

EXPERIENCE

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GRÄEF

Firm Profiles

*Our core purpose
To improve the physical
environment for the
benefit of society in a
sustainable manner*

*GRAEF is an employee-
owned, full-service
engineering and consulting
firm with proven expertise
in many service areas.*

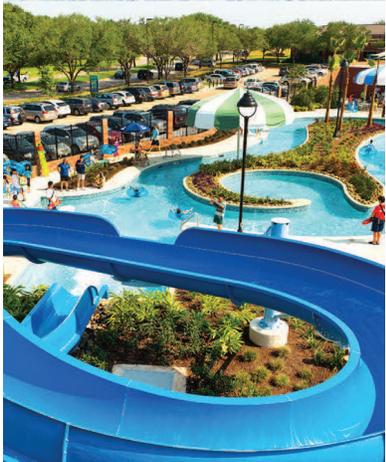
*GRAEF serves public
and private clients from
its offices in Milwaukee,
Green Bay and Madison,
Wisconsin; Chicago, Illinois;
and Orlando, Florida. For
more than 50 years, GRAEF
has demonstrated its
commitment to continuously
adapt to the changing
needs of the industry and
its clients.*

GRAEF began as an individual partnership founded as a structural engineering firm on July 1, 1961. The fledgling company was named Graef, Anhalt, Schloemer–Consulting Engineers. In 1967, with a workforce of fifteen employees, the company incorporated and expanded its services to include civil and municipal areas.

Since then, the firm has continually grown its staff and capabilities through acquisitions in Wisconsin and Illinois. In 1981, GRAEF entered the Fox Valley/Green Bay market, in 1988 the Chicago market, and in 1991 the Madison market. These moves served to strengthen ties and a commitment to providing consulting services in the Midwest. In 1998, GRAEF completed the transition to a client-focused organization serving commercial, governmental, industrial, and municipal clients and moved to its current home, Milwaukee's beautiful Honey Creek Corporate Center. Through the acquisition of Haning, Sikkema, Heaton & Associates in 2000, and Zak Engineering in 2002, GRAEF was able to add mechanical, electrical, and plumbing engineering services to its list of specialties. In addition, GRAEF expanded its structural design presence in the Chicago market through the acquisition of Beer, Gorski, Graff in 2001. The firm's national footprint expanded in 2008 with the acquisition of BCE, an MEP focused firm, in Florida. Finally, with the acquisition of Planning and Design Institute (PDI) in late 2008, GRAEF has expanded its services to include comprehensive community planning.

Today, now employing more than 240 employees, GRAEF offers its clients a full range of engineering and design services. We are proud of the role our firm has played during the last 53 years in cities across the Midwest and Florida. Looking over the cityscape and surrounding areas, you will undoubtedly view a building, facility, or recreational resource to which GRAEF has contributed.





Water Technology, Inc.

Firm Profile

www.wtiworld.com

The WTI team is a highly qualified group of individuals comprised of creative architects, landscape architects, engineers, designers, business developers and administrators, all with a passion for aquatics. Together, we combine our talents to develop original, aquatic facilities from concept to reality. In addition, WTI maintains solid relationships with other consultants and contractors and continues to set the standards in the aquatic industry across the United States and around the world.

Philosophy

Water Technology, Inc.'s (WTI) creative energy and passion embraces the philosophy that aquatic recreation completes communities and makes them a better place to live.

Company Details

Established in 1983
Largest Aquatic Design Firm in North America, Staff of 50+
Quality Control Implementation
Collaborative Team Process
International Portfolio
Specialized Aquatic Professionals on Staff:

WTI Advantages

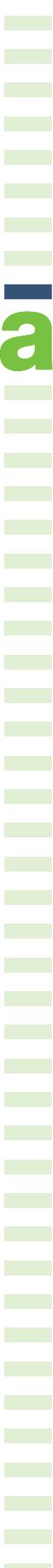
Solution driven planning and philosophy
Two-way sharing process between WTI and client
Forward-looking designs that support dynamic community programs
Revit / BIM Capabilities
150+ AQUATIC Projects Per Year
Historical database of cost estimates and realistic timelines

Extensive Portfolio of Projects of Varying Venues

Waterparks
Resort and Hotel Pools
Competition Pools
Faith Based Community Centers
Water Playgrounds
Public Facilities
Therapy and Wellness Pools
Schools and Universities

Headquarters

100 Park Avenue
Beaver Dam, WI 53916
T. (920) 887-7375
F. (920) 887-7999
Offices in Texas and Dubai

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GR*a***EF**

Technical Expertise

Technical Expertise

Civil

- GIS and Computer Modeling
- Potable Water Systems
- Water Resource Management
- Site Development
- Stormwater Systems
- Subdivisions
- Utility System Expansions
- Wastewater Systems

Environmental

- Air and Noise Analysis
- Asbestos/Lead Management
- Brownfields
- Natural Resource Assessments
- Permitting
- Program Management/Planning
- Real Estate Due Diligence
- Soil/Groundwater Remediation
- Watershed Management
- Wetland Services

Field Services

- ALTA Surveys
- GPS Surveying
- Construction Management, Inspection, Staking
- LiDAR Surveys
- Land Surveys and Mapping
- Right-of-Way Plats
- Subdivision Platting
- Topographic and Site Surveys

Industrial Architecture

- Additions
- Buildings
- Building Facades
- Parking Structures
- Renderings
- Renovations
- Roof Systems

Landscape Architecture

- Site Planning/Design
- Community Planning
- Urban Design
- Streetscapes
- Parks and Recreational Facilities
- Golf Course Development
- Sustainable Design
- Quarry Architecture

Mechanical/Electrical/ Plumbing and Commissioning

- Communication and Alarm Systems
- Fire Protection Systems
- HVAC Systems
- Interior and Exterior Lighting
- Plumbing Systems
- Power Distribution
- Process Piping and Gas Systems
- Ventilation and Exhaust Systems
- Total Building Commissioning
- LEED Accreditation Services
- Energy Modeling and Audits
- Smoke Control System Inspections
- Construction Management

Operations Consulting

- Lean Manufacturing Design
- Plant Layout
- Process and Product Flow Analysis
- Process Utility Design
- Quality Control
- Set-up Reduction
- Staging and Material Logistics
- Work Cell Design

Planning

- Comprehensive Planning
- Urban Design
- Master Planning
- Main Street Redevelopment
- Corridor Redevelopment
- Property Development
- Plan Reviews
- Strategies for Sustainability
- Economic Development

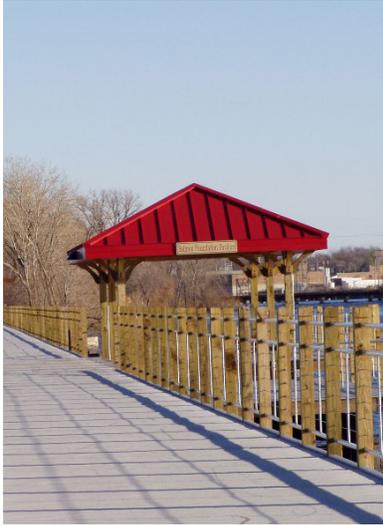
Structural

- BIM (Building Information Modeling)
- Bridges
- Buildings
- Building Exteriors
- Foundations
- Forensic Analyses/Investigations
- Parking Structures
- Process
- Structural Systems

Transportation

- Curb and Gutter/Sidewalks
- Harbors and Marinas
- Pavement Design
- Railroad Spurs
- Relocation and Reconstruction
- Right-of-Way Services
- Roundabout Design
- Streets/Highways/Freeways
- Street Lighting
- Traffic Studies, Signalization and Signing

Park and Recreation Planning



GRAEF landscape architects, planners, designers, and engineers have created park plans ranging from small rural areas to large urban active recreational facilities. In each case, successful comprehensive plans depend upon customizing the goals, evaluation, findings, and recommendations to the unique aspects of each community.

Public Involvement

GRAEF works with local staff and citizens to provide a thorough evaluation of existing facilities. Public involvement includes community surveys, demographic analysis, workshops, interviews, open houses, web-based information, and a variety of presentation media.

Evaluation of Existing Conditions

GRAEF analyzes existing conditions in relationship to national, regional, and local standards, best practices, and community concerns. This evaluation includes an analysis of the complex physical conditions of the natural environment and physical facilities that comprise a local system of outdoor recreation and park activities. Buildings are evaluated in terms of structural and mechanical systems, enclosure, energy consumption, and use.



Capital and Operating Costs

For many parks departments, the key issue is the allocation of limited funds across an ever-expanding set of needs for activities, services, physical improvements, and maintenance. GRAEF assists local officials in estimating capital and operating costs and in recommending phasing, priorities, and the distribution of resources. For many organizations, the key factor is defining standards for an appropriate level of maintenance and, where possible, defining low-maintenance options for long-term sustainability of the quality of environmental systems.

Environmental Preservation

Preservation and enhancement of the natural environment should underlie any effective plan for parks and outdoor recreation. GRAEF's scientists, engineers, and landscape architects (many of whom are LEED® AP accredited professionals in sustainability) provide a strong base of expertise to ensure effective environmental conservation and management. This work often involves stormwater planning, mitigation options and remediation plans.



Public Use and Social Activity

Parks and open space derive their value from public use. Uses range from organized recreational activities to informal day-to-day activities in parks and public areas. Many successful parks and public places are those in which social activities occur naturally – walking, jogging, strolling, sitting, listening to music, watching other people, bike riding, playing with friends, picnicking, celebrating a family event, gatherings for social groups, and so forth. Uses also include cultural activities, public art, education, historical markers, and commemorative events.

Park and Recreation Planning

continued



Circulation and Connectivity

Parks and open spaces become useless if the general public cannot access places quickly, enjoyably, and safely. GRAEF considers a wide range of circulation and movement issues in park planning. It is especially important to evaluate the linkages between neighborhoods, user groups and park/recreation facilities. Linkages include trail systems (bicycles, pedestrians), parking and vehicular patterns, service vehicles, connectivity to surrounding movement systems, wayfinding, and signage.

Grants, Sponsorships, Fees, and Fundraising

Outdoor recreation and park spaces are not only functional entities – they become civic symbols that represent the aspirations, pride, and attitude of the community. From this perspective there are numerous opportunities to raise funds for parks and open space, ranging from “buy-a-brick” campaigns to “adoption” of parks by local businesses and/or neighborhoods. Depending on the nature of the facility, sponsorships and user fees are also key sources of revenue. GRAEF often assists in these efforts based on prior experience in other communities.



Integrated Systems of Parks and Places

While most comprehensive park plans focus on the facilities operated by a single public entity, the larger community-wide population actually uses a diversity of facilities such as parks and recreation areas managed by other agencies (state, federal, schools), local home owners associations, private sector entities (e.g., golf courses, resorts), and conservancy foundations. GRAEF assists local municipalities in viewing the full range of parks and open space in order to dovetail facilities offered by local government into the larger community system.



Landscape Architecture

Areas of Expertise

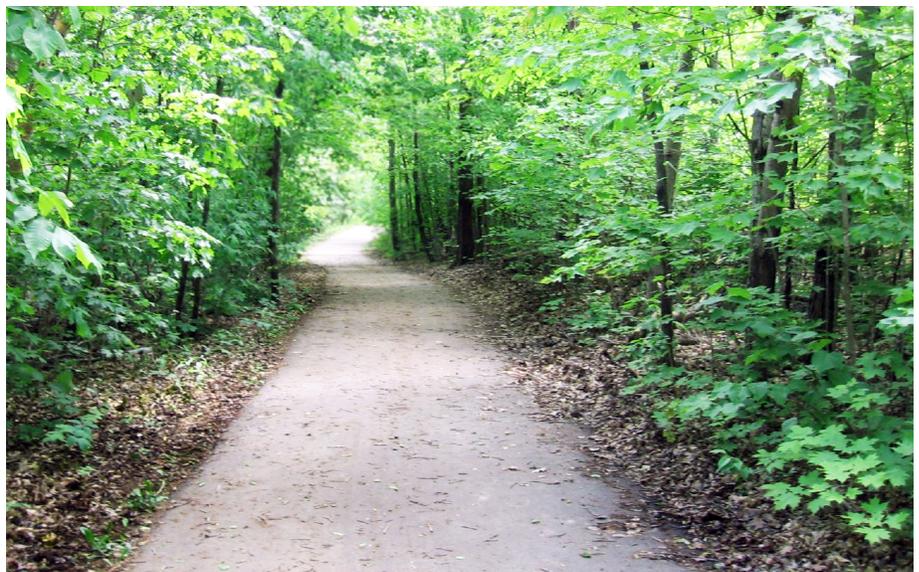
- Adaptive Reuse
- American Disabilities Act
- Aquatic Facility Design & Planning
- Budgeting & Programming
- Construction Detailing
- Construction Management
- Corporate Identity & Image
- Fountains & Water Features
- Hardscaping
- Intiorscape
- Park Master Planning
- Predictive Planning
- Rooftop Green Spaces
- Schematic Utility Systems
- Site & Urban Planning
- Site Illumination
- Site Irrigation
- Specifications

A successful landscape design must incorporate a full understanding of context, desired program elements, attainable design opportunities, potential constraints, attention to site composition and functional requirements in order to truly develop something special and unique. At GRAEF, we strive to create landscapes that blend aesthetics, functional process, accessibility and creativity in a way that best responds to the needs of our clients.

GRAEF provides a broad range of landscape architecture and planning services. Our staff of landscape architects has extensive experience with projects of all scales and varied program elements. Serving municipal, private sector, conservation and governmental client bases, we specialize in providing design services for project visioning, master planning, trail development on conservation lands, streetscapes, urban plazas, sustainable site design, LEED services, land restoration, community identity, waterfronts, parks and open space, project signage and branding, educational campuses, passive and active water theme parks, retail developments, industrial parks, civic facilities as well as providing full construction administration.

Our cumulative understanding of key sustainable site design techniques for storm water management, improved water quality, green building materials and self-sustaining natural systems is a valuable asset to our clients and the projects we cultivate for them.

An additional aspect we strive to incorporate into our designs is project identity. Through collaboration with our in-house design experts, we are able to offer a fully integrated, inter-disciplinary approach to design in order to provide cost-effective, efficient solutions that are creative, fully functional and attractive.



Sports & Recreation Services

Areas of Expertise

- Feasibility Studies
- Existing Facility Assessments
- Site Selection/Assessment
- Due Diligence
- Natural Resource Investigation
- Sustainable Design
- Master Planning
- Programming
- Facility Layout
- Municipal Entitlement
- Transportation Planning
- Parking Studies
- Utility Systems
- Irrigation
- Storm Water Management
- Lighting Design
- Structural Design
- Construction Documents
- Permitting
- Cost Estimates
- Construction Layout
- Certification Surveys

Sports and recreational venues can foster school pride, revitalize an urban area or provide an outlet for family recreation. In any case, these venues should be unique and generate excitement.

GRAEF engineers understand the complex nature of sports and recreational venues. Our multidisciplinary team works closely with facility owners to create an environment best suited to our client's desired sports and recreational expectations. GRAEF engineers strive to create an environmentally safe and aesthetically appealing facility that maximizes our client's available resources.



Areas of Expertise

- Site Development
- Utility Design
- Infrastructure Master Planning
- Planning & Relocation Studies
- Surveying & Mapping
- Storm Water Management
- Roadway Design
- Parking Lot & Sidewalk Design
- Permit Coordination
- Construction Inspection
- Water and Wastewater System Design
- GIS & Computer Modeling
- Zoning/Annexation Support

Our site/civil engineering team has the expertise and experience needed to provide the innovative and cost-effective solutions demanded in today's marketplace. GRAEF's civil engineers can handle the full array of infrastructure projects from private site developments to large public works projects. Our specialized project managers are supported by technical experts in water, wastewater, storm water management, urban planning, grading and paving, and environmental permitting. Our full service capability also includes survey, construction inspection, traffic analysis, GIS mapping and data management, parking planning, and natural resource assessment using state-of-the-art technology.

Services on the public side include water main, sanitary sewer, and storm water design, public road design, municipal engineering services, pump stations, wastewater treatment, and other areas of public works engineering. We have substantial experience working with city engineers, public works directors, and other governmental officials to help them meet needs of their constituents.

GRAEF's site/civil engineering team is also committed to sustainable design principles. We specialize in the design of green infrastructure, including storm water management, roadway design, street lighting, infrastructure master planning, and reuse/recycling. We have 24 LEED® Accredited professionals ready to help you achieve your project goals.



Areas of Expertise

- New Building Design
- Renovation & Restoration
- Parking Structure Design
- Feasibility Studies
- Structural System Alternative Analysis
- Construction Inspection
- Evaluation of Existing Facilities
- Vibration Analysis/Mitigation
- Building Envelope Evaluation
- 3-D Computer Modeling

Quality and creativity are integral parts of our designs for buildings and parking structures. Our structural engineers provide a wide range of design and investigative services for all types of projects, with quality being the foundation of every project. Our commitment to creating high caliber, efficient designs is achieved through skilled personnel and personal attention during every phase of the project.

Our experience in structural design for buildings extends from small additions to multi-million dollar structures and, as a result of the variety of projects, we have an extensive background in the economical use of concrete, masonry, steel, and wood structural systems.

Foundation system selection is determined on a cost-effective basis after analyzing soil investigation results to make maximum use of available soils.

In addition to our new design expertise, we also have a comprehensive background in the evaluation and restoration of existing facilities. We work with a variety of materials and are up-to-date on the latest repair techniques and products to apply them to a constructible and cost-effective project.

In the area of bridge design, GRAEF has prepared designs for reinforcing and repairing existing structures, as well as designs for new bridges. Attention to aesthetics has been a key factor in reducing environmental objections, thereby encouraging public approval.



Mechanical, Electrical & Plumbing Engineering

Areas of Expertise

Mechanical

- Chilled Water Plant System Analysis/Design
- Steam and Hot Water Boiler System Analysis/Design
- High Pressure Steam Sterilizer Systems
- Built-up and Packaged Air Handling Units
- Exhaust Air Heat Recovery
- Fume Hood and HEPA Filtration Systems
- Energy Modeling
- Process Piping

The GRAEF team of mechanical, electrical, and plumbing (MEP) engineers provide full service beginning in the initial concept and planning phases and extending through final system start-up. Our MEP staff is experienced in determining system type, system budget and engineering budgets.

GRAEF's MEP experts offer a full array of analysis, design and commissioning services for new and existing facilities. Our varied and diverse experience, coupled with our involvement in the analysis of the project requirements, provides a resource to successfully complete your MEP projects.

Electrical

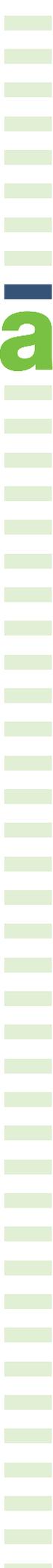
- Primary and Secondary Electrical Services
- Normal Power Distribution Systems
- Emergency Power Distribution Systems and Generators
- Lightning Protection
- Indoor and Outdoor Lighting Design
- Communication and Alarm Systems



Plumbing & Fire Protection

- Water Distribution Systems
- Domestic Hot Water System
- Wet Pipe Fire Protection System
- Dry Pipe Fire Protection System
- Fire Pumps
- Medical Gas Systems and Equipment
- Bulk Oxygen Equipment



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Project Experience

Erb Park and Swimming Pool Facility Evaluation and Concept Plan Development

Client: City of Appleton | Location: Appleton, WI



Due to the popularity of this neighborhood park and pool, the City of Appleton is proactively addressing the aging facilities and seeking opportunities for improvements and/or renovations to the facilities. They retained GRAEF, teamed with Water Tech, to complete an investigation and review of the existing facilities and park and to collaborate to develop concept plans for pool improvements and/or renovations.

Efforts included review of design drawings; field inspections of the park, tennis courts, parking lots and driveway, pathways; structural and architectural inspection of the pavilion, bathhouse, maintenance building, and pool shells; review of the mechanical and plumbing systems; and review of the pool components.

- Services**
- Project Management
 - Master Planning
 - Landscape Architecture
 - Civil Engineering
 - Structural Engineering
 - Aquatics (Water Tech)

The **GRAEF/Water Tech team** listened to user groups and the public through interviews and public involvement workshops. Using the information gathered, GRAEF developed a program of activities and aquatics for the park and pool in concert with City of Appleton staff. With the program outline, we worked together to come up with several concept master plan options and associated budgets. Many discussions and comparisons ensued, resulting in a single concept master plan that was released to the public for comments over the course of the 2015 swim season. At the conclusion of the swim season, the comments were evaluated and the concept master plan was expanded to four different options, along with budgets, to be considered for inclusion in the 2015 city budget.

Ultimately, the City Council approved a \$10.5 million budget item for the new park and pool improvements to be designed in 2016.



Tosa Pool at Hoyt Park

Client: Friends of Hoyt Park/Milwaukee County | Location: Wauwatosa, WI



Services
Civil Engineering
Structural Engineering
Survey
Aquatics (Water Tech)

The Friends of Hoyt Park, a non-profit community organization, teamed with Milwaukee County to rebuild the Hoyt Park Pool, which had been closed for close to 10 years. The \$9 million pool and park opened in 2011, and the complex includes a new lap pool, diving board, slide, and zero-entry design including a redesigned changing complex. The **GRAEF/Water Tech team** was chosen to design the new pool.

GRAEF provided civil engineering services to Milwaukee County to improve all the support infrastructure in the park including a new parking lot, decorative fencing, recreational path, and utility work. The proximity of the pool to the Menomonee River led to innovative storm water design solutions and challenges with utility service, requiring a 1,200-foot directional drill under the river to provide water service to the pool. GRAEF also provided civil engineering services to the design-build team to construct the pool, deck, and building renovations.

The tight budget for the community project challenged GRAEF to analyze the infrastructure thoroughly to determine what existing site could remain to maximize both environmental and cost efficiency.

The pool opened with great fanfare from the local community with local recognition including Wauwatosa Chamber of Commerce Civic Appreciation Award and Milwaukee Magazine's "Best Things in Milwaukee."



Schultz Aquatic Center at Lincoln Park

Client: Milwaukee County | Location: Milwaukee, WI



Services
Project Management
Master Planning
Site/Civil Engineering
Structural Engineering
Landscape Architecture
Aquatics (Water Tech)

Milwaukee County opened a new family aquatic center at Lincoln Park on Milwaukee's north side in 2009. The family aquatic park features the only outdoor "lazy river" in the region as well as the tallest water slides in the County Parks system. The park includes a body slide, tube slide, zero-depth entry interactive children's play area, lap lanes, diving boards and a new 6,200 square-foot locker room building. The pool water is heated to a constant 82 degrees. The project also included the remodeling of the existing Blatz Pavilion to include concessions, lifeguard locker rooms, a first aid room, and staff offices.

GRAEF engineers led The **GRAEF/Water Tech team** with overall project management, master planning, site/civil engineering, structural engineering and landscape architecture for this \$8.6 million dollar aquatic center. GRAEF staff provided multiple site and size preliminary design options, final design services, construction drawings, construction specifications, and construction administration services.

The new facility provides a strong connection to the Lincoln Park, the Milwaukee River, and the Oak Leaf Trail system. The project won an award for Outstanding Aquatic Facility Design from the Wisconsin Park and Recreation Association.

Colburn Park Pool

Client: City of Green Bay | Location: Green Bay, WI



Services Engineering design to replace the Colburn Park pool. Project includes both pool, building, and associated site work.

Project Management

Master Planning GRAEF engineers led The **GRAEF/Water Tech team** with overall project management, master planning, site/civil engineering, structural engineering, mechanical engineering, electrical engineering, plumbing engineering, and landscape architecture for this \$6.5 million dollar aquatic center. GRAEF staff provided multiple preliminary design options, final design services, construction drawings, construction specifications, and construction administration services.

Site/Civil Engineering

Structural Engineering

Landscape Architecture

Mechanical, Electrical, and Plumbing engineering

Aquatics (Water Tech)

Community Swimming Pool At Goodman Park

Madison, WI



OWNER

City of Madison
215 Martin Luther King, Jr. Blvd.,
Suite 120
Madison, WI 53710

COMPLETED

2006

AWARDS / FEATURES

Architectural Showcase Feature
Athletic Business, June 2007

Innovative Architecture & Design
Highlight
Recreation Management, May 2007

“Excellence in Masonry” Award
Wisconsin Concrete Masonry Assoc.,
May 2007

2006 WPRA Outstanding Aquatic
Facility Award
Wisconsin Park and Recreation Assoc.
November 2006

WEBSITE

www.cityofmadison.com/parks/pool/

The City of Madison received a total donation of \$2.5 million from retired jewelers, Robert and Irwin Goodman for the design and construction of the pool. The City formed two committees; one for the planning and one for the sole purpose of raising money. The dedication and hard work of these committees was an integral part of the success of the project.

Several key issues in this project include a site location plan that would place the pool in the most accessible place for all of the City's neighborhoods. WTI and the Ad Hoc Pool Committee studied nine sites for feasibility of location, parking, transportation, demographics and technical aspects of all sites. WTI then developed two conceptual plans; one with an 800 bather load capacity and the other for 1000 bathers. The City contributed \$1.26 million and the rest came from large and small public and private donations through Madison's impressive fund raising efforts. This was enough to begin the final design of the pool that would allow for 1,000 swimmers.

The deck level pool is a total of 16,500 square feet with a zero depth entry, interactive waterplay, two waterslides, an 8 lane, 25 meter lap area, one meter diving boards, starting platforms, large deck areas with shade structures and deck furniture along with concession and guest changing areas. The design also incorporated variable frequency drives on pool pump motors to help reduce energy costs and all building materials, lighting, mechanical and heaters are designed to be energy efficient.

The project proved successful with an average of 1,100 guests per day in the first season. The goal was to attract residents of all ages and ethnic backgrounds and provide public aquatic recreation to children of all income levels.

AMENITIES

16,500 SF Leisure/Lap Pool
8 Lane, 25 Meter Lap Area
Starting Platforms
(2) One Meter Diving Boards
(2) Body Slides
Raining buckets
Perispray
Silly spray

Water curtain
(7) geysers
Shade Structures
Umbrella Tables
Deck Chairs
Family Changing Rooms
Concessions Area

Reindahl Park Splash Pad

Madison, WI



OWNER

City of Madison
210 Martin Luther King Jr. Blvd
Madison, WI 53703

COMPLETED

2014

AWARDS / FEATURES

Aquatic Design Portfolio Feature
Athletic Business, Jan/Feb 2015

WEBSITE

www.cityofmadison.com/parks/

Dozens of children, of all ages, gathered under the interactive features for the inaugural activation of the water sprays at Reindahl Park. The spray ground is free and open to the public throughout summer months.

WTI was hired in 2013 by the City of Madison for the design and engineering of the Reindahl Park Splash Pad, support/concessions building, and Shade Shelters. Through a series of public and staff meetings, WTI developed the design for the new splash park. The 2200 Square foot Splash pad is designed into three connecting spray zones, each appealing to a slightly different age group. Adjacent to the splash pad are shade shelters, designed by WTI, which house 2-4 picnic tables and a mechanical support/concessions building. Uniquely, a remote monitoring system connects to the splash pad for the convenience of the Madison Park Maintenance department to keep an eye on the mechanical systems.

Other improvements expected to take place at the park over the course of five years include athletic facility enhancements and new shelter landscaping. The park is also home to a major soccer complex, reservable shelter, playground, basketball court, community gardens, and tennis courts.

AMENITIES

2200 SF Splash Pad

Vortex

(1) Aqualien PowerSpinner

(2) Loop No1

(1) Bamboo No10

(1) Team Spray No2

(1) Team Spray No1

(3) Directional Water Jet

(1) Ombrello Twirl No1

(1) Ombrello Twirl No2

(1) Ombrello No1

(2) Ombrello No2

(5) Jet Stream

(3) Aqualien Flower No1

(1) Fountain Spray

(2) Groud Geyser

(1) Aqua Dome No1

(2) Spray Loop

(1) Watergarden Activator No1

(2) Foot Activator

Manitowoc Family Aquatic Center

Manitowoc, WI



OWNER

City of Manitowoc
930 North 18th St.
Manitowoc, WI 54220

COMPLETED

2010

WEBSITE

www.manitowoc.org

WTI worked with the City of Manitowoc to perform an aquatic study to determine what type of aquatic facility would best meet the needs of their community. The primary goal was to develop an outdoor aquatic facility that appealed to youth, adults, and family. The second planning objective was to develop facilities that would support the local interests of competitive swimming and diving. Lastly, the City wanted to provide new opportunities for casual non-water recreation activities for youth and adults (picnic areas, sand play, etc.) and provide an aesthetic quality to the pool environment through signage, furniture, appurtenances, and landscaping.

WTI evaluated four potential sites and compared them for accessibility, adjacent land use, available utilities, and special considerations such as if the site had an existing pool, would displace other recreational activities or if land acquisition would be required. After design and programming meetings with the city and citizen survey tabulations, a recommended program was provided.

In 2007, the City of Manitowoc hired WTI for the second phase of the project, which included the final design, construction documents, construction administrations and start up. After being without a pool for three years, the new pool opened in time for the 2010 summer season

After years of successful years of operation, the Manitowoc Family Aquatic Center approached WTI again to review various opportunities for added entertainment throughout the facility. The group decided to further explore the options and again work with WTI.

AMENITIES

9,072 SF Leisure Pool
Zero Depth Entry
Kiddie Slide
Geysers
Water Cup Interactive Play Feature
ARC Multi-Play VII Structure
Lazy River

4 Lap Lanes
3/4 Meter Diving
Drop Slide
(2) Slides with Runout
Funbrella - Shaded Water Areas
Sand Play Area

Merrill Municipal Aquatic Center

Merrill, WI



OWNER

City of Merrill
1004 East First Street
Merrill, Wisconsin 54452

COMPLETED

2016

WEBSITE

www.merrill.wi.us

In late 2014, the City of Merrill hired Water Technology, Inc. (WTI) to plan and design their new outdoor aquatic facility. Also the architect of record and prime consultant WTI is responsible for all building architecture on site including the bathhouse and mechanical room. The new facility replaces the swimming pool constructed in 1968. After ongoing maintenance and some mechanical issues, the Merrill Parks & Recreation Commission made the decision to permanently close the 44-year-old pool in Stange's Park and work toward a new facility.

After several meetings with the City and stakeholders and with cost in mind, it was decided that the new aquatic center would be located at the Merrill Area Recreation Center to serve Merrill residents as well as county residents of the surrounding area and visitors to Council Grounds State Park.

The aquatic center features a 6-lane competition / lap pool, a diving well with 1 meter and 3 meter diving boards, climbing wall, water basketball, tethered floatables, zero depth entry area with splash structure and interactive spray features, slides and deck with shaded seating area.

As the Prime Consultant, WTI is responsible for coordination of all Construction Administration. "WTI's role will be to continue to help us through all the infinite details and be our technical consultants," said Dan Wendorf, Merrill Parks and Recreation Director. "Building an aquatic center is a very big undertaking. We have taken a great deal of time in gathering various perspectives and citizen input to put this all together. In turn, we have ended up with a 700 page project manual. WTI is very good at what they do and we will continue to rely on their expertise in helping us along the way. Miron's (Construction Co.) job is to build the aquatic center exactly the way we have it drawn out in this 700 page manual."

AMENITIES

6 Lane Outdoor Competition Pool with 1 Meter and 3 Meter Diving, a Climbing Wall, Tethered Floatables, Water Basketball, Zero Depth Entry Area with Water Sprays, Play Structure with Kiddie Slide, and 3-Wide Family Slide

Large Deck with Two Body Slides with Runout and Shaded Seating

David F. Schultz Aquatic Center at Lincoln Park

Milwaukee, WI



OWNER

Milwaukee County Parks Aquatics
Office
9840 Watertown Plank Road
Wauwatosa, WI 53226

COMPLETED

2009

WEBSITE

[www.county.milwaukee.gov/Pool9145/
LincolnAquatic.htm](http://www.county.milwaukee.gov/Pool9145/LincolnAquatic.htm)

The Milwaukee County aquatic center at Lincoln Park began is named after former County Executive and Milwaukee County parks director who championed the waterpark concept in the 1980s, David F. Schulz. The team, comprised of WTI and Graef, Anhalt, Schloemer & Associates, Inc., worked closely with the County staff, residents and regulatory agencies, providing the leadership and participatory framework through the design process.

It was necessary that the design and construction of the David Schulz Aquatic Center at Lincoln Park Center be responsive to the expressed needs of the community and sensitive to the park environment in which it is located. In addition to being fun, the new aquatic center must be efficient and safe. Working with Milwaukee County, our team realized the planning goals of the project, including the required LEED design processes, while at the same time meeting financial and operational requirements. All building materials, lighting, mechanical and heaters were designed to be energy efficient and variable frequency drives on pool pump motors were incorporated to help reduce energy costs. A project of this type requires many important traits, including a team approach and public involvement from design through yearly operation.

In order to receive a combination of strong input and feedback and result in the success of a long-term family aquatic center facility, it is our philosophy to involve the facility users, including residents of the Milwaukee metropolitan area. Our team approach to this project closely follows the approach that we successfully used in the design and construction of the Cool Waters Family Aquatic Center at Greenfield Park and hundreds of facilities that WTI and Graef, Anhalt, Schloemer & Associates, Inc. have completed around the country.

AMENITIES

9,240 SF Multi-generational Leisure Pool (1) Raft Slide
Zero-Depth Entry (1) Body Flume Slide
Interactive Water Features
Lap Lanes
Diving Well
Lazy River
Waterslide Tower

Tosa Pool At Hoyt Park

Wauwatosa, WI



OWNER

Friends of Hoyt Park & Pool
PO Box 13936
Wauwatosa, WI 53213

COMPLETED

2011

AWARDS / FEATURES

Outstanding Aquatic Facility Design/
Renovation Award
Wisconsin Park & Recreation
Association, Aquatic Section,
November 2011

WEBSITE

www.friendsofhoypark.org

In 2003, after 60 years of operation, the Hoyt Park Pool closed due to severe structural problems and extremely high operational costs. After seven years without a pool, the new outdoor family aquatic center, designed by WTI, opened its doors Memorial Day 2011.

The Friends of Hoyt Park & Pool was created in 2006, a privately-funded organization with a mission to enhance the quality of life for community members by developing, maintaining, and operating a pool at Hoyt Park. With the help of WTI, volunteers have spent thousands of hours over the past few years raising millions of dollars, navigating the necessary regulations, evaluating other pools, and building support among the community.

The Tosa Pool at Hoyt Park boasts some exciting and unique features. The zero depth entry allows for easy access, and the large shallow area with interactive play features accommodates young children. There is also plenty of deep water for the more advanced swimmers. The landscaped grassy areas are an inviting place for people to place a beach towel and soak up the sun.

The behind the scene aspects of the pool are also impressive. Advancements in filtration technology allow for less water and energy waste during the pool cleaning process. The sanitation system utilizes ultraviolet light, which reduces the need for chlorine and kills more bacteria. The original bathhouse pavilion underwent extensive remodeling and replacement to modernize the facility. The pavilion includes a concession stand, space for a coffee shop or restaurant, ticket office, as well as shower and changing facilities. When funding becomes available, solar panels will be installed on the building roof.

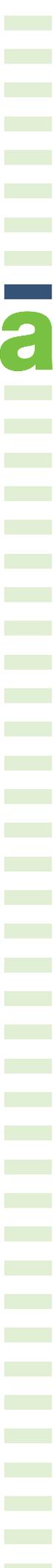
AMENITIES

16,991 SF Leisure Pool
Zero Depth Entry
AP-300 Interactive Play Structure
Geysers
Body Slide with Plunge Pool

8 Lane 25 Yard Lap Area
(2) One Meter Diving Boards with
Diving Well
Shade Structures

Section 3

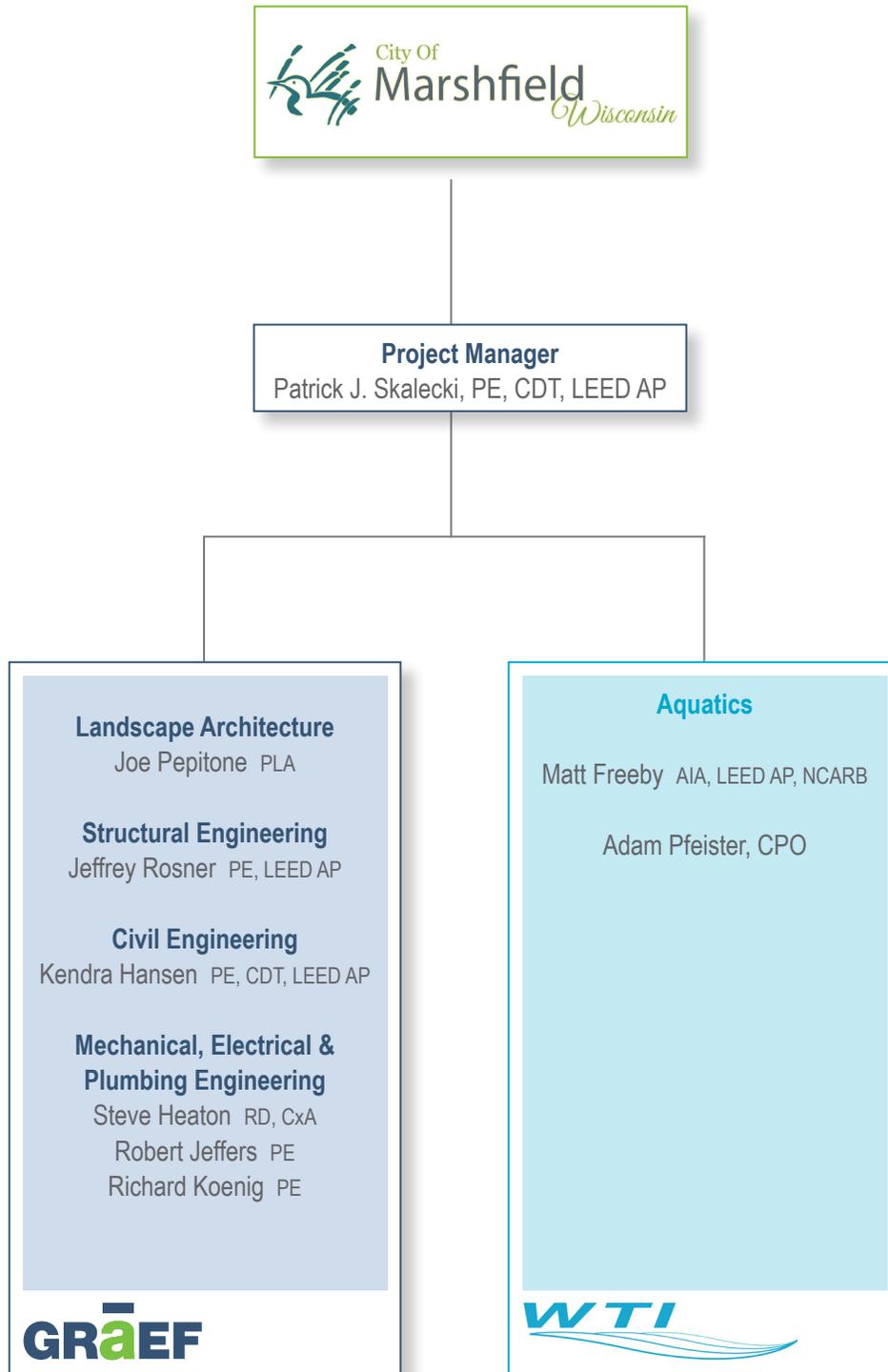
ORGANIZATION

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GRaEF

Organizational Chart

Project Team Organization





Resumes



Registrations

Professional Engineer – WI, IL, IN,
IA, MI, MN, ID

Certifications

Construction Specifications
Institute – Construction Document
Technologist
LEED Accredited Professional

Education

B.S., Civil Engineering, 1992
University of Wisconsin-Platteville,
Platteville, WI

Pat possesses extensive knowledge and technical skills in public infrastructure as well as site engineering including: hydraulic modeling, hydrologic studies, municipal utility design, storm water management and system design, roadway design, complete site development, parking lot design and associated construction engineering on such projects.

Erb Park and Swimming Pool Facility Evaluation and Concept Plan Development, Appleton, WI

Project Manager

Hydro Park, Kaukauna Utilities/City of Kaukauna, Kaukauna, WI

Project Manager

Gateway Plaza Park, Neenah, WI

Project Manager

Herb & Dolly Smith Park, City of Neenah, WI

Project Manager

Park Sites #1 and #2, Neenah, WI

Project Manager

East River Trail Preliminary Design Study, City of Green Bay, WI

Principal-in-Charge/Quality Assurance and Quality Control

Park and Trail System Design, Neenah, WI

Project Manager

Akzo Nobel Sports Complex Softball Field Lighting, Howard, WI

Project Manager

Lambeau Field Redevelopment, Green Bay, WI

Project Manager

Neenah Pedestrian Bridge Feasibility Study, Neenah, WI

Site/Civil Engineer



Registrations

Registered Landscape Architect –
WI, CA

Certifications

CLARB National Certification
LEED® Accredited Professional

Education

B.S., Landscape Architecture, 1986
University of Wisconsin-Madison,
Madison, WI

Joe is a licensed landscape architect with 30 years of landscape architectural design and planning expertise. That expertise includes master planning to incorporate site program elements in a functional and cohesive manner. His thorough knowledge of all aspects of site development allow him to provide complete and thorough documentation which includes site planning, detailed design, landscape design and details, planting design, construction documentation, specifications and on-site construction administration.

I-794 Lakefront Gateway, Milwaukee County, WI

Project Landscape Architect

Hart Park Improvements, Playground and Splash Pad, Wauwatosa, WI

Project Landscape Architect

Salem Community Park, Town of Salem, WI

Project Landscape Architect

Openlands Lakeshore Preserve, Openlands/CorLands, Lake County, IL

Project Manager / Landscape Architect

Concordia University Athletic Fields Master Plan, Mequon, WI

Project Landscape Architect

Wisconsin Lutheran College Athletic Fields Master Plans, Wauwatosa, WI

Project Landscape Architect

Town & Country YMCA, Oconomowoc, WI

Project Landscape Architect

Kettle Moraine YMCA – West Bend, WI

Project Landscape Architect

Door County YMCA Master Plan, Sturgeon Bay, WI

Project Landscape Architect

YMCA at Pabst Farms, Oconomowoc, WI –

Project Landscape Architect

Wildlife in Need Center, Ottawa, WI

Project Manager

Hart Park Rotary Stage and Performance Area, Wauwatosa, WI

Project Landscape Architect and Designer

Chicago Park District Park 510, Chicago, IL

Project Landscape Architect



Registration

Professional Engineer – WI

Certifications

LEED Accredited Professional

Education

M.S., Structural Engineering, 1997,
Marquette University, Milwaukee,
WI

B.S., Civil Engineering, 1995,
Marquette University, Milwaukee,
WI

Jeff has an outstanding record in the design of new buildings, building additions, and evaluation and repair of existing buildings. His experience encompasses a wide range of building designs including numerous educational facilities, retail facilities, recreational facilities, office buildings, and water park/pool facilities. Jeff has worked on dozens of indoor and outdoor pools, waterparks, and related park facility projects in Wisconsin and across the country.

- David F. Schulz Family Aquatic Center at Lincoln Park, Milwaukee, WI
- Structural Pool Assessment, Colburn Park, Green Bay, WI
- Fairfax Pool, Eau Claire, WI
- Manitowoc Family Aquatic Center, Manitowoc, WI
- Renovation of Existing Bathhouse and Outdoor Pool Facility, Wheeling, IL
- Renovation of Existing Bathhouse and Outdoor Pool Facility, Bensenville, IL
- Lazy River, Plunge Pool and Adventure Area, Bolingbrook, IL
- Chula Vista Resort Wave Pool, Wisconsin Dells, WI
- New Bathhouse and Outdoor Leisure Pool Facility, Liberty Grove, IL
- Renovation of Existing Bathhouse and Outdoor Pool Facility, Wheeling, IL
- Renovation of Existing Bathhouse and Outdoor Pool Facility, Bensenville, IL
- Indoor Competition Pool with Dive Area, East Lansing, MI
- Outdoor Leisure Pool, LaCrosse, WI
- Indoor Competition Pool with Dive Area, Valders, WI
- Indoor Therapy Pool and Leisure Pool, Tucson, AZ
- Indoor Lap Pool with Dive Area and Activity Pool, Oconomowoc, WI
- Indoor Therapy Pool, Bayley Place, Cincinnati, OH
- Indoor Activity Pool, Powel Crosley Jr. YMCA, Cincinnati, OH
- Indoor Activity Pool, Clippard YMCA, Cincinnati, OH
- Indoor Leisure Pool Supported on Drilled Piers, Broomfield, CO
- Indoor Activity Pool, Family Pool, and Whirlpool, Macomb, MI
- Indoor Competition Pool with Dive Area and Leisure Pool, Ashland Recreation Center, Denver, CO
- Indoor Competition Pool with Dive Area, Leisure Pool and Whirlpool, Perinton Community Center, Fairport, NY
- Indoor Lap Pool with Dive Area and Access Ramp, Chilton, WI
- Indoor Competition Pool with Dive Area and Warm-up Pool, Frisco, TX
- Indoor Competition Pool with Dive Area, Molalla, OR
- Indoor Competition Pool with Diving Area and Leisure Pool, Montclair, CO
- Indoor Competition Pool with Diving Area and Attached Surge Tank, Corunna, MI
- Indoor Competition Pool with Diving Well and Whirlpool, Outdoor Leisure Pool, Houston University, Houston, TX
- Indoor Therapy Pool, Martin Luther Recreation Center, Denver, CO
- Outdoor Wave Pool and Below-grade Mechanical Building, Mahoney, NE
- Small Indoor Pool with Skimmers, Bettendorf, IA
- Indoor Activity Pool with Plunge Pool and River, Sterling, IA –
- Outdoor Activity Park with Plunge Pool, Lap Pool, and Diving Well, Sac City
- Large Indoor Competition Pool with Diving Area and Small Warm-up Pool, South Lake
- Indoor Lap Pool with Deep Well, Small Activity Pool, and Whirlpool, Iola, WI
- Indoor Leisure Pool with a Plunge Pool and Lap Pool, Medina, IL
- Indoor Lap Pool with Lap Area, Plunge Pool and Diving Well, Sheboygan Falls, WI
- Indoor Lap Pool with Diving Well, Rome, NY
- Indoor Lap Pool with Diving Well, Large Indoor Leisure Pool, and a Whirlpool, Westerville
- Activity Pool and Diving Well, Sumner, IA
- Activity Pool, Lap Pool and Diving Well, Nevada, IA
- Lazy River, Plunge Pool and Adventure Area, Bolingbrook, IL
- Activity Pool, Lap Area and Diving Well, Osceola, IA
- Indoor Whirlpool and Outdoor Pond Pool, Kohler, WI
- Indoor River, Plunge Pool, Activity Pool and Whirlpool, Brainard, MN
- Slide Pool, Children's Pool and Wave Pool, Buena Park, CA
- Activity Pool, Competition Lap Pool and Diving Well, GA
- Activity Pool and Whirlpool, Pleasant Prairie, WI
- Indoor Activity Pool, Lafayette
- Lap Pool and Diving Well, Mequon, WI
- Activity Pool, Camdenton
- Activity Pool and Diving Well, Murphy Chandler
- Pool Rehabilitation and Addition, Prairie View



Kendra joined GRAEF in May 2004, bringing talent and enthusiasm to all her projects. She has been involved in the design of numerous site/civil and transportation related projects. She also has experience in construction supervision and inspection.

Professional Registration
Professional Engineer – WI

Erb Park and Swimming Pool Facility Evaluation and Concept Plan Development, Appleton, WI

Project Engineer

Professional Certification
LEED Accredited Professional
Construction Documents
Technology – Construction
Specifications Institute

Hydro Park, Kaukauna Utilities/City of Kaukauna, Kaukauna, WI

Site/Civil Engineer

Education

B.S., Civil Engineering, 2004,
Marquette University, Milwaukee,
WI

Gateway Plaza Park, Neenah, WI

Site/Civil Engineer

Herb & Dolly Smith Park, City of Neenah, WI

Site/Civil Engineer

Park Sites #1 and #2, Neenah, WI

Site/Civil Engineer

East River Trail Preliminary Design Study, City of Green Bay, WI

Project Manager

Professional Affiliations

American Society of Civil Engineers
“Current” Young Professional
Network, Green Bay Chamber of
Commerce

Park and Trail System Design, Neenah, WI

Site/Civil Engineer

Neenah Pedestrian Bridge Feasibility Study, Neenah, WI

Site/Civil Engineer

Colburn Park Pool

Site/Civil Engineer

Green Bay Bullfrogs Stadium

Site/Civil Engineer



With over 30 years of experience as an Electrical Consulting Engineer, Bob has a broad range of experience with clients, different building types, and varied electrical systems. He has significant experience including project management of multi-disciplined projects and project engineering functions for design of electrical and lighting systems. Experience includes establishing project budgets, completing calculations, selecting equipment, preparing specifications and designing low and medium electrical distribution systems, stand-by emergency generation and fire alarm systems for commercial, institutional, laboratory and sports projects.

Registrations

Professional Engineer - WI

Certifications

LEED Accredited Professional

Education

B.S. Architectural Studies, 1982,
University of Wisconsin-Milwaukee,
Milwaukee, WI

Augustine Preparatory School Natatorium and Athletic Fields, Milwaukee, WI
Senior Electrical Engineer

Drexel Town Square, Oak Creek, WI
Lead Electrical Engineer

University of Wisconsin-Oshkosh, Albee Hall Pool Addition and Remodeling,
Oshkosh, WI
Lead Electrical Engineer

University of Wisconsin-Madison, Kohl Center, Madison, WI
Lead Electrical Engineer

University of Wisconsin-Madison, Camp Randall Stadium Renovations,
Madison, WI
Lead Electrical Engineer

University of Wisconsin-Milwaukee, Klotsche Center, Milwaukee, WI
Lead Electrical Engineer

Racine Festival Grounds, Racine, WI
Lead Electrical Engineer

Corporate Campus Training Center Addition, Verona, WI
MEP Project Manager/Lead Electrical Engineer

University of Wisconsin-Milwaukee Klotsche Center Addition and Remodel,
Milwaukee, WI
Lead Electrical Engineer (with another firm)

University of Wisconsin-Green Bay Kress Center
Lead Electrical Engineer (with another firm)



Steve has over 35 years of experience in the design of heating, ventilating, and air conditioning systems, including energy analysis and feasibility studies of health care, industrial, commercial and institutional projects. Steve is a certified Construction Document Technologist. His responsibilities encompass all phases of project development from existing building and energy analysis, design/construction document phase through construction, formal commissioning and project closeout. In addition to providing quality assurance/quality control project reviews.

Registrations

Registered Designer of Engineering
Systems – Wisconsin
Construction Specifications
Institute – Construction Document
Technologist
Certified Commissioning Authority,
ACG

Education

Associate Degree, Air Conditioning
and Refrigeration Technology,
1975, Western Wisconsin Technical
Institute

Water Tech, Inc., Multiple Locations, WI

Mechanical Designer

Milwaukee County Child and Adolescent Treatment Center, Milwaukee, WI

Mechanical Designer

Milwaukee County Parks Greenhouse Complex, Milwaukee, WI

Mechanical Designer

Wilson Park, Milwaukee County Parks, Milwaukee, WI

Mechanical Designer

Numerous Park Buildings, HVAC Equipment Replacement Analysis, Milwaukee

County Parks, Milwaukee, WI

Mechanical Designer

Aquarium/Reptile House, Aviary, and Other Facility HVAC Design, Milwaukee

County Zoo, Milwaukee, WI

Mechanical Designer

University of Wisconsin-Milwaukee, Chiller Condenser Water Strainer,

Milwaukee, WI

Mechanical Designer



Registration

Professional Engineer – WI, NY,
FL, NV

Education

B.S., Mechanical Engineering,
2002, Rochester Institute of
Technology, Rochester, NY

Richard is a licensed professional engineer who has 20 years experience in engineering plumbing and fire protection systems for industrial, medical, commercial and high rise buildings throughout North America and the Caribbean. He enjoys the challenges associated with designing complex plumbing and fire protection systems as his diverse experience shows. Additionally, he has 12 years experience in the construction industry as a journeyman plumber/pipe fitter and foreman on many construction projects.

Restrooms and Concessions Stand Plumbing Design, Waukesha County Parks, Delafield, WI

Plumbing Engineer

Reindahl Splash Pad Park Building, Madison, WI

Plumbing Engineer

Park Arthur Restrooms and Concession Stands, Muskego, WI

Plumbing Engineer

Washington Park Velodrome Restrooms and Concession Stands, Kenosha, WI

Plumbing Engineer

Mukwonago YMCA, Mukwonago, WI

Plumbing Engineer

Milwaukee Public School South High School Stadium, Milwaukee, WI

Plumbing Engineer

Milwaukee Public Schools Custer Stadium Replacement, Milwaukee, WI

Plumbing Engineer

University of Wisconsin-Madison, Gym and Natatorium, Madison, WI

Plumbing Engineer

Big Springs Water Park, Houston, TX

Plumbing Engineer (with another firm)

Reindahl Splash Pad Park Building, Madison, WI

Plumbing Engineer (with another firm)

Beach House Renovation, Great Lakes Naval Base, Chicago, IL

Plumbing Engineer (with another firm)

Oconomowoc Community Center, Oconomowoc, WI

Plumbing Engineer (with another firm)

Matthew W. Freeby, AIA, LEE D AP, NCARB

Water Technology
Pool Design



Professional Registration:

Architect: AR, AZ, CA, DE, FL, HI,
IN, LA, MI, MN, MO, NE, NJ, NM,
NV, NY, OK, RI, TN, UT, WA, WI

LEED AP

NSPF Certified Pool / Spa Operator
(CPO)

Education

Master's Degree, Architecture,
Washington University, St. Louis,
Missouri

Master's Degree, Construction
Management, Washington
University, St. Louis, Missouri

Bachelor of Arts, Architecture,
Washington University, St. Louis,
Missouri

Professional Affiliations

American Institute of Architects
(AIA)

National Council of Architectural
Registration Boards (NCARB)

Matthew Freeby has a breadth of experience in the design and construction of numerous building types and structures; with overall responsibility for large project development, he has handled projects ranging from \$1 million to \$100 million. His project experience ranges from conceptual planning to construction management.

Matt is relied upon to define project scope, goals and deliverables that support WTI's business goals in collaboration with senior management. He helps to determine and assess need for additional staff and/or consultants and make the appropriate recruitments if necessary during project cycle. A registered Architect in 22 states and a NSPF Certified Pool/Spa Operator, Mr. Freeby is a LEED Accredited Professional with an advanced depth of knowledge in green building practices and sustainable aquatic design and operations. Matt's attention to detail and persistent pursuit of excellence provides the industry benchmark in aquatic design.

Featured Projects

Manitowoc Family Aquatic Center - Manitowoc, WI
Erb Pool - Appleton, WI
UW Madison SERF - Madison, WI
Antigo Municipal Outdoor Pool Renovation - Antigo, WI
Western Racquet Club - Elm Grove, WI
Baraboo HS Indoor Swimming Pool VGB Review Evaluation - Baraboo, WI
Bayshore Mall Spraypad - Glendale, WI
Creekview Aquatic Center at the Evergreen Retirement Community - Oshkosh, WI
Goeres Park Pool - Lodi, WI
College of DuPage-Glen Ellyn, IL - Glen Ellyn, IL
Greater Decatur YMCA - Decatur, IL
J. W. Marriott Spa, Chicago Loop - Chicago, IL
Peoria Rec Plex - Peoria, IL
Ray & Joan Kroc Cops Community Center of Quincy - Quincy, IL
Springfield YMCA: Gus and Flora Kerasotes YMCA - Springfield, IL
Clarksville Family Aquatic Center Renovation - Clarksville, IN
Prophetstown State Park Family Aquatic Center - Battleground, IN
Bryan Park Pool - Bloomington, IN
Mills Park Pool - Bloomington, IN
Charlevoix Area Community Pool - Charlevoix, MI
Boll Family YMCA - Detroit, MI
Harper Creek Community Schools - Battle Creek, MI
Excelsior Springs Community Center - Excelsior Springs, MO
Watford City Events Center - Watford City, ND
Athens Community Pool - Athens, OH
Liberty Township Powell YMCA - Powell, OH
Mandel Jewish Community Center - Beachwood, OH
Sunriver Homeowners Association Aquatic Center - Sunriver, OR
Watertown Community Recreation Center - Watertown, SD



Professional Registration
NSPF Certified Pool / Spa Operator
(CPO)
Revit Certified Professional

Education
Bachelor of Landscape
Architecture, Iowa State University
Professional Affiliations:
Associate ASLA

Working within in the parameters given, Adam orchestrates a symphony of aquatic elements and features throughout the facility. His designs transform flat, monotonous areas into stimulating aquatic destinations using elevation and unique, custom created structures. Adam's experience in Landscape Architecture includes environmental, urban, commercial and residential design; he also has experience in image editing. Adam's investigative approach prior to designing each facility includes working with project management and the client to understand the demographics of the area in conjunction with the needs, wants and state codes. Once all the information is gathered, Adam uses his design skills to transform planning and programming notes into a conceptual graphic design, carefully taking into account budget constraints and objectives. Adam's dedication and passion for designing is evident throughout the design process carefully working with project managers and manufacturers to make sure the vision is seen through to completion. Adam's portfolio includes a variety of aquatic facilities including, Olympic level competition, therapy and wellness, hotel, and municipal leisure.

Featured Projects

Hoyt Park Pool - Wauwatosa, WI
Manitowoc Family Aquatic Center - Manitowoc, WI
Erb Pool - Appleton, WI
Reindahl Splash Pad - Madison, WI
Hy & Richard Smith JCC Family Park - Mequon, WI
Goeres Park Pool - Lodi, WI
Bentonville Community Center - Bentonville, AR
Cottonwood Community Recreation Center - Cottonwood, AZ
City of Greeley Citywide Masterplan of Outdoor Aquatic Centers - Greeley, CO
Lone Tree Recreation Center - Littleton, CO
Forest City Family Aquatic Center - Forest City, IA
Des Plaines Park District Chippewa Pool - Des Plaines, IL
Willow Stream Aquatic Center Renovation - Buffalo Grove, IL
Magic Waters Slide Complex - Rockford, IL
Green Lake Family Aquatic Center - River Forest, IL
Prophetstown State Park Family Aquatic Center - Battleground, IN
Salt City Splash Aquatic Center Study - Hutchinson, KS
Tie Breaker Family Aquatic Center - Hopkinsville, KY
Lions Water Adventure at the Woodmen Community Center - Kinston, NC
Williston Community Recreation Center - Williston, ND
Las Cruces Regional Recreation & Aquatic Center - Las Cruces, NM
Aberdeen Family Aquatic Center - Aberdeen, SD
Madison Outdoor Aquatic Center - Madison, SD
Russ McEwen Aquatic Center - Big Spring, TX
NRH2O Waterpark - North Richland Hills, TX
Creeside Family Aquatic Center - The Woodlands, TX
Upton Hill Regional Park Pool - Arlington, VA
Kandle Park Pool - Tacoma, WA

Section 4

STUDY METHODOLOGY

Study Methodology



The Hefko Public Pool is an important recreational facility for the City of Marshfield. The pool was initially constructed in 1933 with a major renovation in 1976, which included the addition of a diving well and a new bath house. In 2000, a pool study was completed and recommended the construction of a new pool.

Historically, the City has held the maintenance cost for the pool at a reasonable level and operational issues have not been a significant concern. However, City leaders have an ongoing concern that due to its age, additional improvements will need to be made within the coming years to continue its operation. The City of Marshfield has, therefore, issued a Request for Proposal for Professional Services to conduct an updated assessment of the pool and develop options to assure the long-term operation of the pool facility.

In an effort to facilitate the assessment work, the City has appointed a thirteen member Pool Study Committee (PSC) to work with the Consultant in the preparation of the study and the ultimate submittal of the study recommendations to the Parks, Recreation, and Forestry Committee and the Common Council.



Our approach to this project is to work with the PSC to collect all available data and to investigate the existing site, listen to key stakeholders and then use our Team's experience to help determine the right project program for maintaining the aquatics facility based on budget and the needs of the City of Marshfield.

We will investigate the overall park and swimming facility with the intention of understanding the facilities opportunities and challenges. While investigating we will begin our listening process, where we ask questions and listen to key project stakeholders such as elected officials, Pool Study Committee, Parks, Recreation & Forestry Committee, and appropriate City staff.

With the information from the listening sessions, we will begin the Programming Phase, in which we will help you evaluate what is appropriate for the future of Hefko Public Pool. Once complete, we will again garner feedback from the key project stakeholders. We will take that information and develop an overall final conceptual site plan and construction costs for the redevelopment of Hefko Park Pool.



To aid us in providing you with the very best in professional aquatic design services, we have teamed with Water Technology, Inc. (WTI) headquartered in Beaver Dam, WI. WTI's creative energy and passion embraces the philosophy that aquatic recreation completes communities and makes them a better place to live. WTI has evaluated, designed and engineered literally hundreds of aquatic facilities throughout North America since 1983. WTI designs are forward-looking and support dynamic community programs. Another key ingredient to a project's success is our historical database, which helps us provide client's accurate cost estimates and a realistic timeline.

Section 5

APPROACH AND DELIVERABLES

Approach and Deliverables

Phase I – Data Collection and Programming

Project Kick-Off Meeting

We will coordinate a kickoff meeting with the project team with the following goals:

- Refine the overall project and approach
- Refine the work program and deliverables
- Discuss design intent and preliminary program
- Define project goals and objectives

Collect and Review Existing Data and Information

It is anticipated that the City will provide us with all of the available surveys, plans, maps, photographs and construction drawings of the existing facility.

Conduct Site Review

We will visit the pool and site and review the existing facilities.

Program Development

Facilitate and attend one (1) meeting with the PSC to discuss, develop, and decide on pool program elements. A program summary listing will be submitted to the PSC for review and concurrence.

Deliverables:

- Existing Facility and Site Analysis Memo with Recommendations.
- Program Summary Listing

Phase II – Conceptual Site Plan and Construction Cost Estimate

Prepare Preliminary Improvement Plans

Prepare conceptual site plans; opinion of probable construction costs, operational costs, revenue projections; and implementation schedule for the redevelopment of the pool facility and associated improvements to assure the long-term provision of a municipal swimming facility. One (1) renovate existing facility conceptual site plan and one (1) new facility conceptual site plan are included.

Present Preliminary Improvement Plans to City

Present conceptual site plans; probable construction costs, operational costs, revenue projections, and implementation schedule to PSC for review and comment.

Revise and Finalize Improvement Plan

Upon direction from the PSC, we will finalize the conceptual site plan into one (1) site plan for the selected path forward (either renovate or replace); and update the opinion of probable construction cost, operational costs, and revenue projections, implementation schedule.

Present Final Improvement Plans to City

Present final conceptual site plan; probable construction costs, operational costs, revenue projections, and implementation schedule to PSC.

Presentation to City Council

Present final conceptual site and associated cost and schedule information.

Deliverables

- Final Conceptual Plan
- Conceptual Plan Summary Memo with Cost and Schedule Information

Additional Services

The following additional services are not included in the scope of services to be provided under the basic contract. If desired, the GRAEF Team is prepared to provide them at an additional negotiated Fee. The additional services include, but may not be limited to:

- Public Meetings (these are special meetings scheduled specifically for the presentation of alternatives and the solicitation of public/user comments.)
- Formal Survey of Residents/Pool users
- Development and review of more than one (1) new facility conceptual site plan.
- Geotechnical Investigations of Pool Study Area

Section 6
CITY SERVICES

City Services

The following information, materials, and approvals are required for the GRAEF/Water Tech Team to effectively and efficiently perform the services described in this proposal. The Client shall provide, at no cost, the following:

- Project site drawings/surveys.
- Project record drawings, including site and buildings.

Section 7

PROJECT SCHEDULE

Project Schedule

| Project Task | Completion Date |
|---|------------------------|
| Consultant Selection by City Council | August 9, 2016 |
| Execution of Professional Services Agreement | August 19, 2016 |
| Project Kick-Off Meeting | August 22, 2016 |
| Collect and Review Existing Data and Information | September 5, 2016 |
| Conduct Site Review | September 12, 2016 |
| Initial Meeting with Pool Study Committee | September 19, 2016 |
| Preliminary Program Development/Improvement Plans | October 10, 2016 |
| Present Preliminary Improvement Plans to Pool Study Committee | October 17, 2016 |
| Revise and Finalize Improvement Plan | October 31, 2016 |
| Present Final Improvement Plans to Pool Study Committee | November 7, 2016 |
| Presentation to City Council | November 22, 2016 |

Note: Above Completion Dates are approximate and may change as a result of meeting schedules and availability. Bolded Tasks/Dates are considered Milestone Dates necessary to meet the November 22, 2016 completion date.

Section 8

COMPENSATION

Compensation

The GRAEF Team hereby proposes to complete the Pool Study for the City of Marshfield for a **Lump Sum Fee of \$39, 750.**

Note: The above Lump Sum Fee includes all costs, including labor cost and mileage expense at the current Federal Mileage Rate.

Section 9

REFERENCES

Milwaukee County

Jim Keegan
Chief of Planning
Milwaukee County Department of Parks, Recreation and Culture
414 / 257 4775
jkeegan@milwcnty.com

City of Appleton

Dean Gazza
Director of Facilities and Construction
920 / 832 5514
dean.gazza@appleton.org

Friends of Hoyt Park & Pool

Denise Lindberg
President
414 543 9641
deniselindberg@wi.rr.com

City of Green Bay

Dan Ditscheit
Design and Development Supt.
920 / 448 3381
dandi@greenbaywi.gov

Section 10
ADDITIONAL INFORMATION

