



Village of Kronenwetter, WI

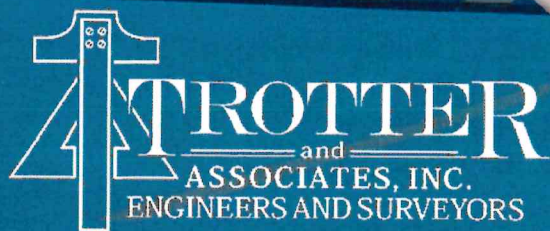


Railroad Accessibility Assessment Study

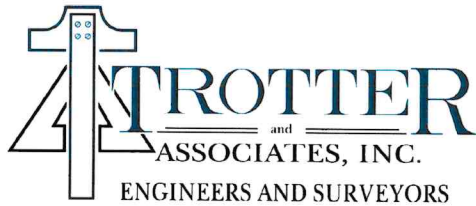


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March 2024



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March 11, 2024

Village Administrator
Village of Kronenwetter
1582 Kronenwetter Drive
Kronenwetter, WI 54455

Attn: Mr. Leonard Ludi
Village Administrator

Re: Railroad Accessibility Assessment Study

Dear Mr. Ludi,

First allow me to take this occasion to thank you for the opportunity to present our qualifications to the Village of Kronenwetter. It was great visiting with you during my site visit and I appreciate you taking the time out of your day to meet. I gained insight into the current operations, the challenges presented by the existing infrastructure, and was able to start seeing the opportunity to come alongside the Village to find successful solutions for your stakeholders and residents.

Our team has performed site visits and aerial reconnaissance of the area experiencing growing pains outlined within your RFP. The Village being dissected in half by Interstate 39 and the railroad tracks certainly makes for a challenging environment for delivering services, stakeholders, traveling public, and emergency response / evacuation activities. We understand the goal of this project is to propose, provide probable costs for improvements, and show the possible impacts for solutions to these challenges. We see the chance for a multi-teared approach to the solutions of these challenges including short-term and long-term opportunities for impact. Obviously, there are solutions which can be engineered. This isn't always the most fiscally responsible or most cost-effective solution. TAI will partner with the Village and its residents, traveling public, and stakeholders to offer realistic solutions. These challenges are not just unique to Kronenwetter and this project offers the Village the chance to be an example to Wisconsin and the Midwest on successfully handling difficult infrastructure challenges, coming out successful on the other side, despite existing infrastructure inherited through generations.

TAI is presenting a hand selected team for this project. Gary Randle will lead this team as our Wisconsin Region Lead and Senior Project Manager. He will be your point of contact for this project. This response will demonstrate his ability to successfully deliver this project for you and the Village. His leadership and experience coupled with the other TAI team members' experience gives the Village the ability to feel secure in all aspects of this study. This project only starts with a study, the true success comes from having the necessary funding vehicles, out of the box thinking, and the entrepreneurial skills and network to drive this project from a study to an impactful reality. TAI's team has these attributes and will partner with your team to establish a strong working relationship with the Village. Please contact me with any questions.

Sincerely,
Trotter and Associates, Inc.

Gary P. Randle II
Wisconsin Region Lead / Senior Project Manager
700 Geneva Parkway North, Suite B
Lake Geneva, WI 53147
O: 262.729.4350
M: 414.308.0024

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TAB II – GENERAL BACKGROUND OF FIRM & ORGANIZATIONAL CHART

TROTTER AND ASSOCIATES, INC. – EXPERIENCED PROFESSIONALS. BETTER SOLUTIONS.

Trotter and Associates, Inc. (TAI) is a licensed engineering consultant and design firm with offices in Illinois and Wisconsin. The firm is licensed in both states and many staff members hold licensure in Wisconsin and Illinois. The personnel assigned to this project will be licensed to perform services in the State of Wisconsin. TAI is a full-service civil engineering firm with a team of professionals that are experienced, proficient, and dedicated to a common cause – the satisfaction of our clients. The team is focused on developing strong client relationships and with an end goal of earning each client’s confidence, respect, and trust through exceptional service. Our drawings and specifications are thorough, accurate, and detailed. You can rest assured that the project team is dedicated to delivering an award-winning project for Kronenwetter!

OFFICE LOCATIONS

Lake Geneva, WI Office

Trotter & Associates, Inc.
700 Geneva Parkway, Suite B
Lake Geneva, WI 53147



St. Charles, IL Office

Trotter & Associates, Inc.
40W201 Wasco Road, Suite D
St. Charles, IL 60175



Fox Lake, IL Office

Trotter & Associates, Inc.
38 W. Grand Avenue, Suite 300
Fox Lake, IL 60020



FIRM SIZE AND STRUCTURE

TAI is structured to meet the growing needs of our municipal clients. TAI’s principals have hand-picked each member of the team based on their skills, experience, and expertise, and how those attributes are able to further assist our clients in achieving their goals. With over 50 professionals, TAI’s staff includes an assortment of licensed professional engineers, engineer’s in training (EIT), Geographical Information System (GIS) professionals, construction and CAD technicians, and administrative staff.

The firm is organized by discipline, including environmental (water and wastewater) services, municipal and civil engineering services, construction-related services, engineering support services (survey, CAD), marketing and administration.

TAI PRACTICAL APPROACH

Trotter and Associates staff is most recognized for our *“boots on the ground”* approach to working with clients, understanding the needs and maintaining continuity from concept through construction. Each of member of TAI’s team is required to spend a significant amount of time in the field, overseeing construction and working with operational personnel to gain a stronger understanding of how our services integrate with the other stake holders and the end user. It is this practical *“hands-on”* experience that separates TAI’s team from other engineers. TAI’s professionals excel in planning, designing, and implementing improvements that are dependable, operator-friendly, low-maintenance, and within budget. As evidence to this fact, the TAI team has a proven record of accomplishments, and a series of marquis projects which demonstrate TAI’s ingenuity and ability to successfully implement new processes to fit our clients’ particular needs.





THE TROTTER DIFFERENCE – OUR TEAM

- Has practical experience in both design and construction
- Possesses expertise with a broad range of technologies
- Is actively involved in shaping the water and wastewater industry
- Collaborates with and educates our clients, resulting in informed decisions
- Identifies and incorporates the strengths of the existing infrastructure
- Produces highly detailed plans and specifications
- Maintains continuity from concept through construction

Through superior design and continuity in the project team, we have successfully kept our Owner change order rate below 1.0% compared to the industry average of 9%.

²Source: McGraw-Hill Construction – “Mitigation of Risk in Infrastructure Construction,” 2011

The doors are never closed in our office. All team members are in constant contact – from the Review Engineer to the Project Manager – throughout any phase of the work. At TAI, collaboration is key including partnering with Village staff to ensure open communication is encouraged, as much as possible, to achieve the best possible results.

TAI QA/QC APPROACH

At TAI, we believe that an effective QA/QC procedure must include the following critical components:

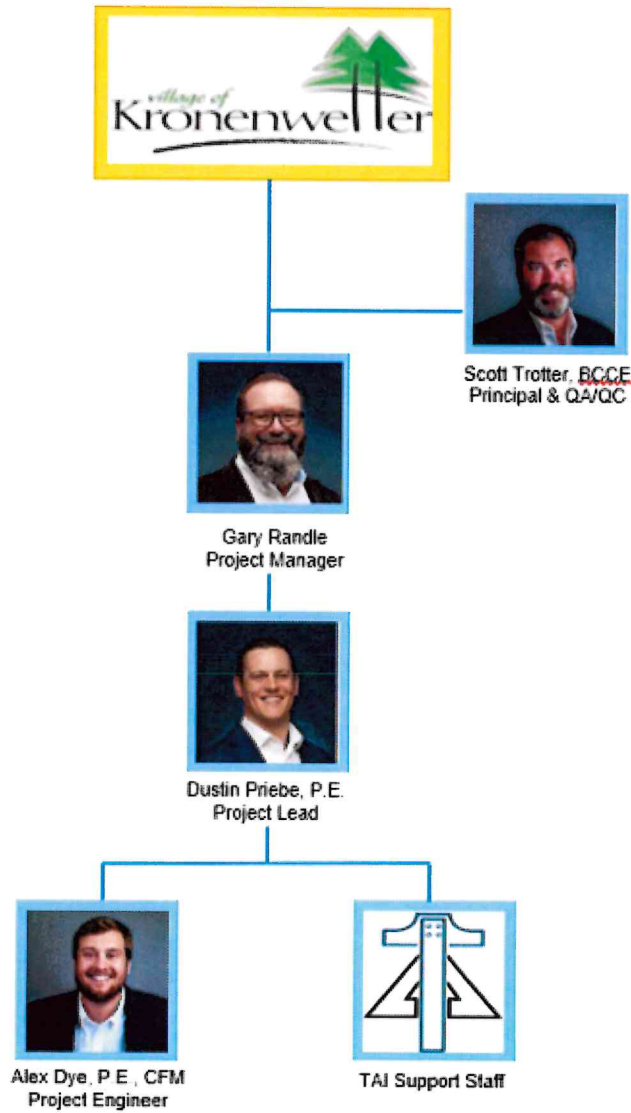
- Development of a thorough and accurate Scope of Services
- Negotiation of a level of effort with associated fees sufficient to perform proper QA/QC reviews
- Assignment of an experienced and qualified QA/QC Manager
- Performance of QA/QC review at each critical milestone
- Routine and realistic evaluation of progress against the Project Plan
- Ensuring that nothing “goes out the door” without a second, unbiased set of eyes review the work

An experienced QA/QC manager often can provide the most valuable input before the designs have progressed too far down any path to make a change in direction unpractical, or too costly. For this reason, we will begin the QA/QC review process during the conceptual design stage, including review of the Preliminary Design Report. Review of the basis of design ensures that sound engineering practice and principles are adopted for the project that will “assure” quality. Subsequent QA/QC reviews performed at the 60 percent and 95 percent complete milestones “control” the quality of the engineering work.



ORGANIZATION CHART

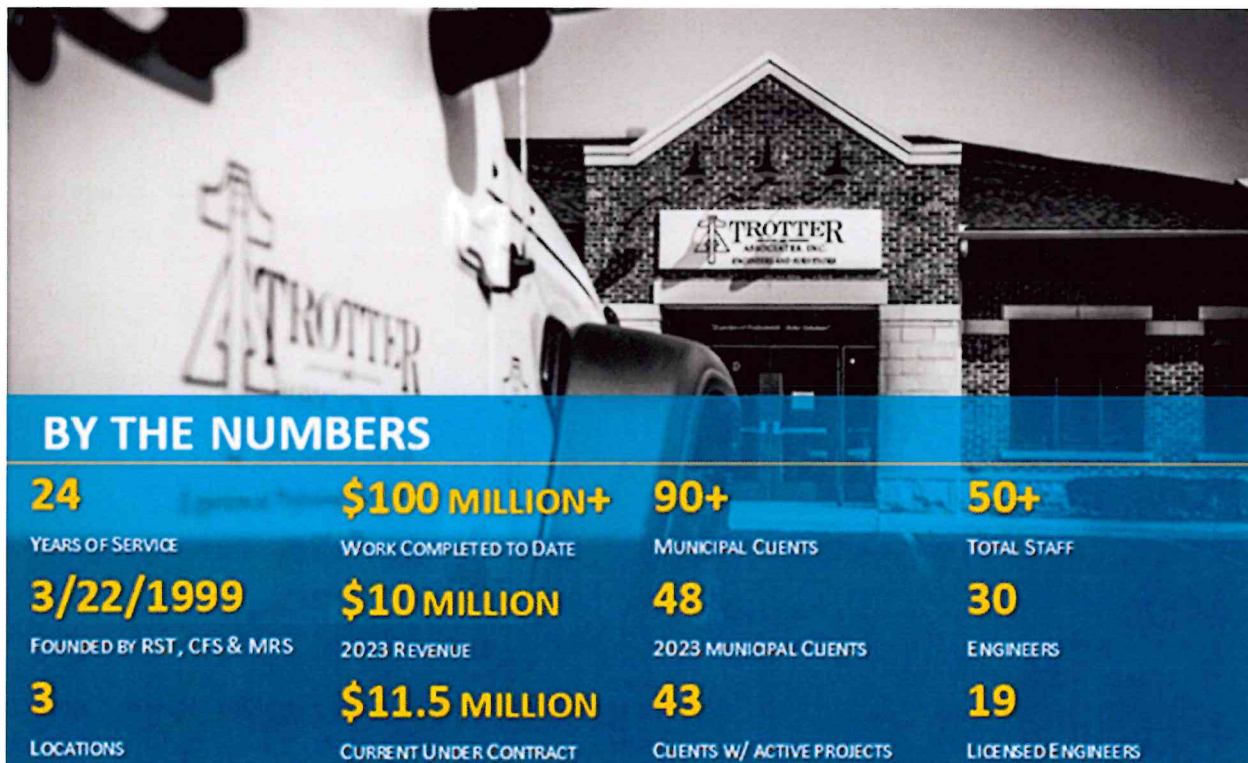
The organizational structure of the firm has evolved over the last 20 years. Scott is still highly involved in all projects completed by the firm and will provide QA/QC support. Gary Randle, Dustin Priebe, and Alex Dye will be the Trotter team for the Village of Kronenwetter with technical assistance of the support staff. A description of the proposed Project Team can be found further in this submittal, along with resumes of core team members.



TAB III – OVERALL MUNICIPAL EXPERIENCE

TAI CLIENT BASE

Trotter and Associates, Inc. is a municipal engineering firm dedicated to finding solutions that best serve the public interest. Trotter and Associates, Inc. began as a firm with only two clients - St. Charles and Batavia, Illinois. TAI quickly earned a reputation for a strong work ethic and collaborative style. The number of municipalities that seek TAI’s expertise has increased dramatically. The majority of this growth has been through referrals from existing clients. TAI’s clients know that our professionals not only possess the technical expertise to address their immediate needs but can also see the bigger picture and develop solutions that are consistent with the community’s long-term goals. TAI has completed over \$100 Million in engineering services over the last 24 years, of which more than 90% was provided to public sector clients. TAI’s private sector work is completed for private utilities and rail companies such as Illinois American Water, Utilities Inc, Aqua Illinois, the CN and Union Pacific Railroads.



TAI provides municipal engineering services to various Northern Illinois and southern Wisconsin communities as the Village or City Engineer. These services include: grant writing, municipal review (subdivision and site improvement plans); conducting feasibility studies; rate studies; short and long-term planning for capital improvement projects; surveying; GIS mapping & data base assistance; design and construction engineering services for capital improvement projects. Specifically, wastewater treatment and collection; water supply, treatment and distribution; roadways; drainage projects; parks and public facilities; and other infrastructure.

We assist municipal staff with the overall management of the subdivision and site improvement projects by reviewing engineering plans, specifications, and plats from concept stage through final design for compliance with municipal codes, engineering standards, and applicable development agreement and annexation agreements. We



also attend meetings with developers to discuss review comments; coordinate projects, schedules and other related issues with Community Development, Police, Fire, Public Works and Engineering Departments; attending weekly development meetings with the managers and staff. TAI will attend the Planning and Zoning Commission and Board meetings as requested and preparing monthly activity reports for all ongoing projects.

We provide construction observation services for development projects and assist in the preparation of comprehensive punchlists with public works staff, as-built plan reviews, and securing required paperwork prior to granting building occupancies or acceptance of subdivisions. Our construction staff averages over 20 years of experience and specialize in overseeing/managing the rehabilitation of municipal infrastructure.

In addition to municipal review, TAI provides preliminary design and final design services for individual Capital Improvement Projects such as MFT Road Programs, wastewater treatment plant rehabilitation projects, WTP upgrades, sewer/water main replacement projects, sewer lining and spot repair programs, hydrographic and hydraulic studies. These services include preparation of detailed engineering plans, specifications, and contract documents. As a municipal engineering firm, we are very well versed in permitting requirements (EPA, DOTs, County stormwater, wastewater agencies, ACOE, etc.) for infrastructure projects.

Below is a summarized list of municipal services Trotter and Associates provides:

- Transportation & Road Maintenance Engineering
- Development Review
- Development Permit Reviews
- Floodplain and Wetlands Management
- Concept and Preliminary Plat
- Final Plat
- Construction Phase
- Stormwater and Drainage Management
- Grant/Loan Applications
- Geographical Information Systems (GIS)

REFERENCES

CLIENT	CONTACT	PHONE
Village of Barrington Hills	Anna Paul, Director of Administration	(847) 551-3003
Village of Campton Hills	Barbara Wojnicki, Village President	(630) 524-6253
Village of Fox Lake	Susan Novak, PE, CFM, Director of Public Works	(847) 587-8570
City of North Chicago	Bob Miller, Director of Public Works	(847) 596-8870



TAB IV – EXPERIENCE OF PROJECT MANAGER

GARY RANDLE – WISCONSIN REGION LEAD / SENIOR PROJECT MANAGER

Mr. Randle brings 31+ years of experience from across the United State in all aspects of Planning and Civil Design. Gary specializes in community development, water, wastewater, municipal, and transportation design as well as construction management. He 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 planning and design, major downtown master planning including emergency services and evacuation routing, railroad coordination, DOT design and construction, telecommunication planning and installations, and large sewer and water plant construction throughout the United States. 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, railroads, emergency services, and has connections with various funding sources throughout Wisconsin which he uses to help his clients take their projects from planning to reality. He is also a proud wartime veteran of the U.S. Armed Forces.



“Positive experiences within communities allow individuals to feel more connected to their environment and the people in it. Further, the connection that comes with being in a community can act as a support system for members when they require encouragement or help.”

Excerpt from positivepsychology.com/10-traits-positive-community.

This statement rings true whether discussing social interactions, physical infrastructure, or any combination thereof within a community. A disconnect in this key principle leads to community challenges. Throughout his career, he has used this principle to lead communities through difficult challenges. Whether it be in planning for a downtown expansion, dealing with railroad delays, or handling homelessness downtown, this guiding principle can lead communities to success through intentional problem solving, and when appropriate applying engineering solutions.

A specific example of Mr. Randle leading communities through this process with like challenges identified within the Villages RFP:

Village of Elm Grove, WI – Downtown Masterplan (While employed as Senior Project Manager and Community Development Practice Leader at SEH, Inc.)

The Village has been in search of a major upgrade to its downtown for many years. The process continually met roadblocks as consultants would be hired to come in a look at pieces of the infrastructure and community to try to create a vibrant downtown area. Mr. Randle and his team started working with the Village on the “Big Picture” in 2019 using the principle shared above to navigate the process.

Three main challenges for the Village of Elm Grove:

1. The downtown was bisected by an active railroad crossing and a creek which caused a disconnect for the community (there were obviously other challenges to deal with during the project, but this was one of the major connectivity issues).



2. The downtowns water supply was also distributed from Village wells which could not meet the demand of a revitalized downtown initiative.
3. The Village of Elm Grove is cash strapped as are many Villages in Wisconsin.

Three big obstacles to overcome which would require a holistic approach to be successful. Where others tried to parse out the challenges, Gary and his team worked to convince the Village to tackle all three together, knowing this would be the key for all the other Village development and revitalization. The Village and team came on together and the outcome can be found in their adopted Village of Elm Grove Downtown Master Plan Guidelines, https://elmgrovewi.org/DocumentCenter/View/2930/FINAL-DRAFT-DTMP_20200508 and their Draft Redevelopment Program Map, https://elmgrovewi.org/DocumentCenter/View/2929/FINAL-DRAFT_Plan-Map_20200508.

Proposed Solutions to 1-3 above:

1. The Village and Railroad began to meet regularly to discuss speed and timing of trains through downtown and allow the Village the opportunity to engage as a partner with the railroad as development activity picks up to try to find creative solutions. The Village has two at grade crossings a minimal distance apart making emergency service to the bisected area difficult during train crossing times. Creative efforts were made to try to make a more routine schedule for railroad impacts to the community allowing police, ambulance and fire the opportunity to strategically position assets during scheduled railroad activities. Communication with the public was essential to help aid in public and stakeholder buy-in so the board met with the public periodically through the project to keep the public informed as the process went forward.
2. The aging water infrastructure limited the ability for the Village to add customers, support new downtown growth, and revitalize the aging area. The plan encompasses the Village using creativity to eventually bring in water from a larger municipality in a shared use agreement and have new developers absorb the cost of the new infrastructure through negotiated developer agreements. Implementing these steps allows the Village to update their infrastructure, create ample water supply, and ready the downtown for growth and revitalization. In 2023 the Village of Elm Grove penned an agreement with a surrounding Village for shared use water supply and ultimately ended up coming to agreement with a developer in the downtown area to bring this water downtown.
3. The team worked together to bring the Village to the table with USDA-RD, Wisconsin Department of Natural Resources (WDNR), Clean Water Fund Grant personnel, and Community Development Block Grant (CDBG) program leaders (where appropriate) to help obtain grants and loans to further development. Coupling this with strategic partnerships with developers and Public Safety Funding agencies has allowed the Village to start making these improvements a reality.

This is one of many projects Mr. Randle has performed throughout his 31-year career and specifically shows success within challenges the Village of Kronenwetter is currently facing head on. Trotter and Associates, Inc. has similar projects to this as shown in this response to your request. Mr. Randle and the TAI team will be devoted to the Village of Kronenwetter to bring communication, creative problem solving, engineering solutions, and out of the box thinking to not just create a report outlining findings and showing great ideas, but to bring solutions and aid in creating relationships with the Village team to find ways to fund the successful connection of services, increase public safety, promote effective response times, ease the headaches of delays to pedestrian and vehicular traffic, and partner with the Village of Kronenwetter to create a Wisconsin model for connecting a bisected community.



TAB V – MAIN PROJECT TEAM AND RESUMES

R. Scott Trotter, P.E., BCEE



▼ Qualifications

Mr. Scott Trotter is a professional engineer and a board-certified specialist in water/wastewater engineering by the American Academy of Environmental Engineers (AAEE). Scott has over 30 years of experience in planning, design; and implementation of infrastructure rehabilitation, expansion and process modification projects. Throughout his career, he has earned the respect of clients, regulatory officials, and contractors alike for his technical skills, work ethic, and ability to bring projects together. Scott has provided industry leadership through a number of organizations including serving as an officer of the Central States WEA, WEF Board of Trustees and University of Illinois CEE Alumni Board. Scott has been involved with national policy initiatives including the USEPA integrated planning, nutrient planning, and WIFIA financing program.

▼ Education

B.S., Civil Engineering, University of Illinois- Urbana 1989

▼ Registration

- Professional Engineer, P.E., IL & WI
- American Academy of Environmental Engineers (AAEE) Board-Certified - Water / Wastewater Specialist

▼ Memberships

- Water Environment Federation – Illinois & Central States
- American Water Works Association (AWWA)
- American Public Works Association (APWA)
- Illinois Association of Water Pollution Control Operators

▼ Accomplishments

- University of Illinois - 1999 Young Engineer Achievement Award
- WEF - Achievement Award for Outstanding Service, 2002, 2006, 2008, 2010
- WEF – Arthur Sidney Bedell Award
- CSWEA - Rudabaugh Award
- CSWEA - Award for Outstanding Service, 1994, 1997, 2002

▼ Publications / Presentations

- WE&T Magazine – September 2002 - Illinois Experts Discuss Latest Water Quality Issues
- Keynote Speaker – Iowa WEA, Arkansas WEA, Alabama WEA, Texas WEA “Texas Water” and Canada WEA Annual Conference



- University of Illinois – “Back to Briefcase Series” – Guest Lecturer
- University of Illinois CEE 195 – Guest Lecturer
- Central States WEA – 2011 Leadership Academy – “Leadership, Knowledge & Networking”
- Central States WEA 2018 Annual Meeting – “Effects of Side Streams on Nutrient Removal Processes”

▼ Projects

Served as Village Engineer:

- Village of Fox Lake
- Village of Maple Park
- Village of Gilberts

Village of Addison – Church Street Watermain Improvements/Roadway Reconstruction

The project included the survey, design, permitting, and construction phase services for the replacement of an existing watermain serving both residential and industrial users as well as a post office. The existing main was being replaced due to the presence of corrosion and the high frequency of watermain breaks. During the design, TAI coordinated with the existing water system users to minimize service interruptions while providing a cost-effective design. The proposed improvements included the installation of over a half mile of water main and the coordination of the street department for restoration and rehabilitation of the existing street.

Village of Algonquin - Northern Basin Sanitary Sewer Evaluation

The study included a comprehensive evaluation of the existing collection system including survey and inspection of 258 sanitary sewer manholes and three lift stations. This information was used to develop a sanitary sewer model (XPSWMM) of the complete Northern Basin (including five sub-basins as shown right). The model was then calibrated using flow meter data and rainfall information to accurately reflect field conditions. Once calibrated the model was utilized to evaluate the existing collection system’s ability to convey dry and wet weather flows, analyze alternatives to improve the system’s performance and develop recommendations for improvements to the system as well as conveyance for future development.

Village of Algonquin - Eastern Basin Sanitary Sewer Evaluation

To determine the existing and future needs of the Eastern Basin, Trotter and Associates, Inc. completed an in-depth analysis of the entire system. This study included inspection of over six hundred and thirty sanitary sewer manholes. This data along with population information was utilized to construct the sanitary sewer model (XPSWMM). This model was calibrated using actual flow data provided by the Village of Algonquin. The same process was used for wet weather and ultimate build out conditions. The sanitary sewer model was used to determine deficiencies within the system and evaluate proposed improvements required to convey future flows and provide the Village with a sanitary sewer system that is capable of conveying sanitary sewer, peak infiltration and inflow for a ten-year storm event.

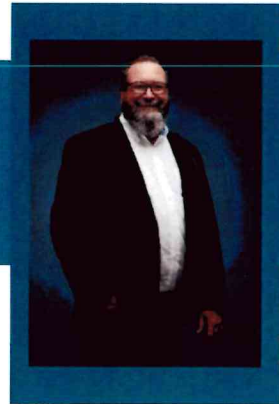
City of St. Charles - 4th Street Improvement Project

The project included design, bidding, and construction engineering services to the City of St. Charles for the Fourth Street Reconstruction from Main Street to Walnut Street. The old brick street was rehabilitated with new combination concrete curb and gutter, sidewalks, driveway aprons, utility improvements (as required) and parkway restoration. The City reused as many of the existing brick pavers as possible.

▼ Additional project write-ups available upon request



Gary P. Randle II



▼ Qualifications

Gary has over 30 years of experience in the Civil and Environmental engineering field of practice, specializing in Municipal Infrastructure, Construction Management, Design, and Client Management. Gary has managed hundreds of municipal infrastructure projects, including State DOT, County Highway, Parks, Trails, Bridges and Structures, Water, Wastewater, Stormwater Mitigation, Floodway Mitigation, and nearly all types of Civil Engineering projects across the United States. Mr. Randle also has performed work for WiDNR, WiDOA, WiDSPS and has many relationships within the Wisconsin Regulatory and Funding Community. He also has connections with private funding investors to help aid investment for Public / Private Partnerships.

▼ Education

- 2024 Projected B.S., Business Management University of Phoenix, on-line through University of Phoenix
- 2 years of Aerospace Engineering Credits

▼ Licensure & Certifications

- Wisconsin Certified Pump Installer #9097
- Harvard School of Business – Business Management
- PSMJ - Project and Client Management Graduate
- Carnegie Institute – Client Management
- USAF – Airman’s Leadership School

▼ Awards & Accreditation

- 2021 Milwaukee Business Journal Veterans In Business Award Winner for Large Company Category
- 2017 I.Q. Innovation Quotient Award
- Recognized National Speaker (Civil Engineering, Construction Management, and Leadership and Motivation)
- Published Author (Linked-In, Milwaukee Business Journal, Gut Intelligence Forward)

▼ Memberships

- American Water Works Association
- Wisconsin Rural Water Association
- APWA

▼ Planning Projects

- Village of Elm Grove WI – Client / Project Manager – Downtown Master Plan (SEH)



- City of Milwaukee WI – Client / Project Manager - Homeless Veterans Tiny Home Village Planning, Preliminary Design, Real Estate Purchasing, Infrastructure Development, Connectivity and Public Transportation Logistics (SEH)
- Denver CO – Bureau of Land Management – Denver Trail Connectivity Study with Emergency Services Response Enhancements (SEH)
- Dodge County WI – Client / Project Manager - Goldstar Memorial Trail Connectivity Study, Design, and Construction (Lynch & Associates)
- Fort Wayne IN – Client / Project Manager - Citilink Transit Assessment Report Development & Composition (GAI Consultants, Inc.)
- Fort Wayne IN - Client / Project Manager - Citilink Baker – Calhoun Street Transit Facility Construction Services (GAI Consultants, Inc.)
- Denver CO – Bureau of Land Management – Denver Trail Connectivity Study with Emergency Services Response Enhancements (GAI Consultants, Inc.)

▼ Civil Engineering Projects

- Kenosha WI – Client / Project Manager/ Construction Manager - 6th Ave. Re-Development and Streetscape Project
- Marinette, WI – Client / Project Manager GIS System Creation
- Waukesha, WI – Client / Project Manager Waukesha Water Utility GIS System Integration and Field Collection
- Mount Pleasant, WI – Client / Project Manager - CTH V Sanitary Sewer and Road Design and Construction Services
- Dodge County, WI – Client / Project Manager - Goldstar Memorial Trail
- Pleasant Prairie, WI – Client / Project Manager -39th Street Fire Station and Road Construction Services
- Mount Pleasant, WI – Client / Project Manager - Corporate Park Storm, Sanitary and Site Development Construction Services
- Transportation Enhancement Project, Construction Services, Lebanon, IN
- First Street Recon. Phase I, Design, Gas City, IN
- Alber Street Recon., Design, Wabash, IN
- Diebold Road Phase 2 Fort Wayne, IN
- Project Supervisor for Broadway Improvement Project in Logansport, IN
- Project Supervisor for Market Street Phase I Improvement Project in Logansport, IN
- Project Supervisor/ Inspector for Washington Street Improvement Project in Frankfort, IN
- Project Supervisor/ for Center Street Improvement Project in Bourbon, IN
- Project Supervisor for Boundary Pike Improvement project in Portland, IN

▼ Additional project write-ups available upon request



Dustin D. Priebe, P.E.



▼ Qualifications

Mr. Dustin Priebe has over a decade of experience in planning, design, and permitting of various land development projects primarily in Illinois and throughout the Great Lakes region. The portfolio of development projects that Dustin was lead engineer on include the public, private, residential, industrial, and commercial sectors. His extensive experience has provided expertise in stormwater and floodplain management, utility design, ADA compliance, and earthwork analysis. Dustin is currently the Village Engineer for Fox Lake and handles site development reviews for new incoming projects.

▼ Education

B.S., Civil Engineering, University of Wisconsin – Platteville
Transportation and Construction emphasis

▼ Licensure & Certifications

Professional Engineer P.E., IL
No. 062-070611

Professional Engineer P.E., WI
E-100517

Certified Floodplain Manager
Anticipated in May 2024

▼ Projects

Village of Fox Lake – Nippersink Boulevard Development

TAI was engaged to design and oversee the construction of a new roadway within the Village of Fox Lake. The roadway design consisted of 530 LF of new roadway connecting Forest Avenue to the old Nippersink Road terminus. Performing construction observation duties involving inspection services for 535 LF of water main, 550 LF of storm sewer, subbase integrity, base construction, and pavement installation. The project's successful low bid was \$1.4 million, and it appears the project will be completed on schedule, and under budget.

Village of Fox Lake – Lakefront Park Redevelopment

TAI was engaged to value engineer the Lakefront Park design (by others) to lower construction costs from 15 million dollars to 12 million dollars. Design scope included: roadways, lighting, landscaping, material substitutions, swimming area and beach design, and dry utility coordination. Construction management included: cost analysis, material viability investigation, and scheduling. The hydrology and hydraulics were analyzed for the 100-year floodplain onsite along with lake water level interaction.



Town of Vernon, CT – 273 Talcottville Rd Development

Managed the investigation, design, permitting, and construction commencement of a 3 million dollar, 10,000-sf daycare facility. Site investigation included: environmental study and impact review due to contaminants onsite, geotechnical investigation and analysis for soil suitability of construction and infiltration, and CTDOT coordination of impacts (traffic signal, turning movements, peak hours). Site design consisted of stormwater management (infiltration and detention), vehicular turning movements, parking & site layout, wet and dry utility design, lighting, and landscaping. Along with the DOT, agencies involved were the parks dept., stormwater commission, wetland commission, private utility companies (power, gas, telecoms, and water), building department, and regional sanitary district.

St. Louis County, MO – 5711 S Lindbergh Blvd Development

Managed the investigation, design, permitting, and construction commencement of a 4 million dollar, 41,000-sf retrofit electric car dealership in St. Louis, MO. Site investigation included: environmental study and impact review due to contaminants onsite, geotechnical investigation and analysis for soil suitability of construction and infiltration, and MODOT & St Louis County DOT coordination of impacts (traffic signal, turning movements, peak hours). Site design consisted of stormwater management for BMP infiltration, vehicular turning movements, parking & site layout, wet and dry utility design, lighting, and landscaping. Along with the DOTs, agencies involved were the planning & zoning dept., building department, engineering department, private utility companies (power, gas, telecoms, and water), and sanitary district.

City of Findlay, OH – 508 W Trenton Avenue Development

Managed the investigation, design, permitting, and construction commencement of a 1 million dollar, 2,500-sf quick serve restaurant. Site investigation included: environmental study and remediation due to contaminants onsite, geotechnical investigation and remediation for high soil plasticity and elevated groundwater, and OHDOT coordination of impacts (turning movements and site access). Site design consisted of stormwater management, vehicular turning movements, parking & site layout, wet and dry utility design, lighting, and landscaping. Along with the DOT, agencies involved were the zoning dept., regional building department, engineering department, private utility companies (power, gas, and telecoms,).

Village of Kildeer - Kildeer Crossings Subdivision

Performed design engineering services for the development of 93 single family lots and 3 commercial outlots. Site design included: roadway profiles and sections, utilities (sanitary, water main, storm sewer), lighting, and landscaping. The project involved: IDOT right-of-way and drainage; Lake County SMC for wetlands and drainage, Park District; IDNR for bat habitat protection, and various utilities (electric, fiber, cable, and gas). Vehicle turning movements were reviewed with the roadway design. Stormwater modeling and hydraulics were completed due to existing wetlands onsite.

Village of Oak Brook – Oak Brook Center Mall Redevelopment

Performed design engineering services for multiple redevelopments within Oak Brook Center Mall totaling 6.5 acres. Design and permitting included: roadways, parking, utilities (sanitary, water main, storm sewer), lighting, and landscaping. The projects involved: local and state agencies for review and permits; and various utilities (electric, fiber, cable, and gas). Vehicle turning movements were reviewed with the roadway design. Stormwater modeling and hydraulics were completed for compliance with code requirements.

▼ **Additional project write-ups available upon request**



Alex Dye, P.E.



▼ Qualifications

Mr. Alex Dye has more than seven years' experience in design and construction of a variety engineering projects and has obtained his Wisconsin Professional Engineering License. During his time at Trotter and Associates, Inc., Alex, has worked with the Municipal team and has gained extensive experience in the design and construction of stormwater management and transportation projects that have been installed across Illinois and into Wisconsin.

▼ Education

B.S., Civil Engineering, University of Wisconsin – Madison

▼ Licensure & Certifications

Professional Engineer, IL

No. 062.075783

Certified Floodplain Manager

No. US-20-11746

IDOT Documentation Certification

No. 20-16379

▼ Memberships

Member of the American Public Works Association (APWA)

Member of the Illinois Association for Floodplain and Stormwater Management (IAFSM)

▼ Projects

City of North Chicago – Lewis Avenue Detention Basin Grant

TAI successfully secured funding for the construction of a large storm water detention basin to mitigate regional flooding concerns in the City of North Chicago. Alex provided the calculations and concept plan showing how the regional problem could be addressed and the project is now in preliminary design.

Medicoil, Inc. – Building Addition Site Design and Permitting

Alex was the lead designer for the building addition site which included design of site grading, paving, parking lot, and stormwater conveyance system. The project was in a Lake Geneva Business Park site and required the design to conform with the state and city's stormwater requirements that had been updated since the initial development of the business park. This included peak flow requirements, TSS removal standards, and infiltration requirements for the redevelopment of the site. Alex designed the site utilizing WISDOT standards and commonly implemented solutions to achieve stormwater management approvals.



City of North Chicago – IDOT Location Drainage Study

TAI was tasked with performing the IDOT Location Drainage Study for the intersection of Buckley Road (IL Route 137) and Lewis Avenue in North Chicago. Alex performed the drainage analysis of the site, compiled the results, and drafted the report for the proposed layout per IDOT BDE requirements.

Fox Waterway Agency – 2019 Site Improvements

Alex participated in the design and served as the resident engineer for the construction of the 2019 Fox Waterway Agency Site Improvements. The project included repairing the failing steel seawall under US Army Corp permits installing shoreline stabilization with fabric and RR 4 rip rap, removing and replacing a failing boat launch with a new PCC boat launch, and driving steel shell piles to support a new concrete wharf to allow for boat servicing and refueling.

Village of Barrington Hills - Plan Review and Construction Permitting

Alex provided plan review services to the Village of Barrington Hills. Plans reviewed ranged from residential site development, proposed septic systems, proposed commercial sites, As-built conditions of completed work and various other projects. TAI also provided guidance in updating Village code and adhering to Lake County Stormwater requirements throughout the Village.

Village of Barrington Hills – Chapel Road Drainage

TAI provided design, permitting, and construction observation services for the emergency drainage repair of Chapel Road. During the heavy rains of 2018 and 2019 Chapel Road had become inundated and was impassable. This project consisted of installing storm sewer outfalls, landscape restoration and significant coordination with property owners. Alex assisted with the design of the improvement by completing site analysis, ACOE/LC SMC storm water permitting, and provided construction observation services.

Canadian National Railroad - Railroad Drainage Analysis

TAI was contacted by Canadian National Railroad to perform analysis of an area with a drainage concern adjacent to their property. The site had been experiencing heavy ponding during rain events. Alex performed a delineation of the drainage area using site contours and assisted in identifying cost effective local drainage solutions.

▼ Projects – write-ups available upon request

City of North Chicago – Annual Sewer Maintenance Program

Village of Barrington Hills – Resurfacing Programs

City of North Chicago –Resurfacing Programs

Village of Barrington Hills – Resurfacing Program

City of North Chicago – 14th Street Sanitary Sewer Lining

City of North Chicago – MFT Resurfacing Program

Village of Barrington Hills – Resurfacing Program

City of North Chicago – MFT Resurfacing Program

City of North Chicago - Water Main Replacement

City of North Chicago – 14th Street Sanitary Sewer Spot Repairs

City of North Chicago – Brookstone and Regency at Coles Park



TAB VI – SPECIAL PROJECT EXPERIENCE FOR PROJECT SCOPE

Village of Barrington Hills

TAI provides day-to-day engineering consulting and is responsible for: planning/design/construction of capital projects (roads/sewers/water systems/etc.) and managing the development of new residential and commercial subdivisions, and site improvement projects in the Village. This work includes: organizing/coordinating the review of engineering plans and documents among the various Village departments and technical consultants; overseeing construction of the improvements and LOC/bond reductions; preparing punchlists once the improvements are substantially completed; accepting the improvements by the Village Board; attending board meetings and Village events.

TAI provided design and oversaw the Village's annual road resurfacing program. This project consisted of resurfacing approximately 2.3 miles of roadways, rejuvenating more than 16.5 miles of roadways, and removing and replacing failing culverts. The work included pavement removal, HMA patching, installation of HMA binder and surface courses, culvert removal and replacement, grading and shaping of ditches to improve drainage, and landscape restoration.

Plan review services to the Village of Barrington Hills ranged from residential site development, proposed septic systems, proposed commercial sites, As-built conditions of completed work and various other projects. TAI also provided guidance in updating Village code and adhering to Lake County Stormwater requirements throughout the Village.

TAI provided design, permitting, and construction observation services for the emergency drainage repair of Chapel Road. During the heavy rains of 2018 and 2019 Chapel Road had become inundated and was impassable. This project consisted of installing storm sewer outfalls, landscape restoration and significant coordination with property owners. Alex assisted with the design of the improvement by completing site analysis, ACOE/LC SMC storm water permitting, and provided construction observation services.

City of North Chicago

TAI provides day-to-day engineering consulting and is responsible for: planning/design/construction of capital projects (roads/sewers/water systems/etc.) and managing the development of new residential and commercial subdivisions, and site improvement projects in the City. This work included: organizing/coordinating the review of engineering plans and documents among the various City departments and technical consultants; overseeing construction of the improvements and LOC/bond reductions; preparing punchlists once the improvements are substantially completed; accepting the improvements by the City Council; attending council meetings and City functions.

TAI provides development review services to the City of North Chicago. All development plans are reviewed for compliance with the City's subdivision and zoning ordinances, as well as the Lake County Watershed Development Ordinance (WDO) and North Shore Water Reclamation District (NSWRD) ordinances, as applicable.

TAI completed Plans, Specifications and Estimates (PS&E's) and performed construction observation for the City of North Chicago's 2017-2018 streets resurfacing program. TAI designed street rehabilitation for 8,900 feet of streets of varying lengths and widths and from residential to collector streets. Work included landscaped medians, ADA compliance, curb and gutter replacement and coordination with the Lake County DOT/ residents/businesses. Funding sources for the project are MFT. Construction cost for the project was \$1.7 million and it was successfully completed on time and within budget.

TAI completed Plans, Specifications and Estimates (PS&E's) and performed construction observation for the City of North Chicago's 2015-2016 streets rehabilitation and water main replacement program. TAI designed water main replacement for 6,100 feet of existing water main and designed street rehabilitation for 8,900 feet of streets





ranging from grind and overlay to rubblization of existing concrete bases of some streets. Work included landscaped medians, IDOT utility and IEPA permitting, ADA compliance, curb and gutter replacement and coordination with the residents/businesses. Funding sources for the project are CDBG and MFT. Construction cost for the project was \$3.1 million and it was successfully completed on time and within budget.

Village of Campton Hills

TAI provides day-to-day engineering consulting and is responsible for: planning/design/construction of capital projects (roads/sewers/water systems/etc.) and managing the development of new residential and commercial subdivisions, and site improvement projects in the Village. This work includes: organizing/coordinating the review of engineering plans and documents among the various Village departments and technical consultants; overseeing construction of the improvements and LOC/bond reductions; preparing punchlists once the improvements are substantially completed; accepting the improvements by the Village Board; attending board meetings and Village events.

TAI provides development review services to the Village of Campton Hills. All development plans are reviewed for compliance with the Village's ordinances and current Kane County stormwater management ordinances. Our responsibilities also include part-time construction observation services to verify the construction is in substantial compliance with the approved plans and specifications. Additionally, as-built plans (or record drawings) are reviewed prior to the submittal of the request for the final occupancy permit to verify the project meets the approved plans, foundation spot survey, and specifications.

Old LaFox Road is a 1.14-mile-long rural 2-lane road and the work consisted of removing 2-inches of the existing pavement surface, pavement patching, installing HMA binder and surface courses, installing new aggregate shoulders, pavement markings and additional signage to improve pedestrian safety at the Great Western Trail crossing.

Village of Fox Lake

TAI provides day-to-day engineering consulting and is responsible for: planning/design/construction of capital projects (roads/sewers/water systems/etc.) and managing the development of new residential and commercial subdivisions, and site improvement projects in the Village. This work includes: organizing/coordinating the review of engineering plans and documents among the various Village departments and technical consultants; overseeing construction of the improvements and LOC/bond reductions; preparing punchlists once the improvements are substantially completed; accepting the improvements by the Village Board; attending board meetings and Village events.

TAI was engaged to design and oversee the construction of a new roadway within the Village of Fox Lake. The roadway design consisted of 530 LF of new roadway connecting Forest Avenue to the old Nippersink Road terminus. Performing construction observation duties involving inspection services for 535 LF of water main, 550 LF of storm sewer, subbase integrity, base construction, and pavement installation. The project's successful low bid was \$1.4 million, and it appears the project will be completed on schedule, and under budget.

TAI was engaged to value engineer the Lakefront Park design (by others) to lower construction costs from 15 million dollars to 12 million dollars. Design scope included: roadways, lighting, landscaping, material substitutions, swimming area and beach design, and dry utility coordination. Construction management included: cost analysis, material viability investigation, and scheduling. The hydrology and hydraulics were analyzed for the 100-year floodplain onsite along with lake water level interaction.



TAB VII – PROJECT APPROACH

Our team has performed site visits and aerial reconnaissance of the area of impact the Village of Kronenwetter is experiencing the growing pains being outlined in within your Request for Proposal. Our ability to feel your pain through engagement of staff, stakeholders, and the traveling public, being on site to experience the activities leading to that pain, give us the attention Kronenwetter needs to diagnose, make recommendations (both immediate, often low cost and long-term, often requiring more monetary investment and funding assistance) equaling both short term and long-term impactful solutions.

Phase 1: Preliminary Research

1. Review and evaluate the available Village information:
 - 2019 Village Comprehensive Plan
 - 2019 to 2024 Village Strategic Plan
 - Planning, Land Use, and Road Data from the Community Development and Public Works Departments
 - Emergency Response data from the Village of Kronenwetter Police and Fire Department
 - Community input regarding concerns
2. Investigate, review, and inventory at-grade railroad crossings, road characteristics, etc.
3. Collect all pertinent data regarding emergency accessibility and evacuations.
4. Define concerns, issues, and opportunities to work with other agencies.
5. Identify and compare concept alternatives to address those concerns and solutions.
6. Prepare for, coordinate, and attend multiple Village staff meetings throughout this phase to present the findings, and address comments or concerns.

Phase 2: Qualifications of Preliminary Recommendations

1. Establish recommendations for one (1) primary solution & two (2) alternate scenarios showing associated opportunities and constraints
2. Final alternative will define any impacts if no improvements were to take place.
3. Prepare for, coordinate, and attend multiple Village staff meetings throughout this phase to present the findings, and address comments or concerns.

Phase 3: Funding Evaluation

1. Identify preliminary budgetary cost of primary and alternate scenarios.
2. Identify grant funding opportunities, to include Health & Safety funding opportunities.
3. Define any alternatives if no improvements were to take place.
4. Identify schedule impacts and project timelines of available options.
5. Prepare for, coordinate, and attend multiple Village staff meetings throughout this phase to present the findings, and address comments or concerns.

Phase 4: Finalize Report

1. Public input regard preliminary concepts
2. Village of Kronenwetter Staff review of final draft accessibility study report.
3. Finalize study and present findings to the committee and thereafter, Village Board.



DELIVERABLES

The following documents are anticipated to be prepared, sent electronically, and presented to staff:

1. Overview of the findings observed during the Preliminary Research phase.
2. Summary and exhibit of primary solution
 - Includes cost and time impacts
3. Summaries and exhibits of two alternate solutions
 - Includes cost and time impacts
4. Summary of impacts and alternative solutions for no improvements taking place
5. List of possible funding opportunities to explore
6. Meeting minutes for all staff meetings during each phase as well as public hearings and comments.
7. Draft study report with overview, graphics, and detailed findings.
 - Three printed hard copies accompanying the electronic file.
8. Finalized study report with overview, graphics, and detailed findings.
 - Three printed hard copies accompanying the electronic file.

SCHEDULE

Below is a list of the major milestones identified for the project. TAI has the staff and manpower necessary to begin the project immediately upon contract execution.

<u>Task Description</u>	<u>Target Completion</u>
Contract Execution/Kick-Off	April 30, 2024
Phase 1: Preliminary Research	May 15, 2024
Phase 2: Qualification of Preliminary Recommendations	June 14, 2024
Phase 3: Funding Evaluation	June 28, 2024
Phase 4: Finalize Report	July 31, 2024
Final Report Presentation to Committee & Board	August 16, 2024



TAB VIII – COST

A **Lump Sum** amount of **\$ 29,900.00** based on the following assumed distribution of compensation:

Phase 1: Preliminary Research	\$ 6,900.00
Phase 2: Qualification of Preliminary Recommendations	\$ 9,800.00
Phase 3: Funding Evaluation	\$ 2,600.00
<u>Phase 4: Finalize Report</u>	<u>\$ 10,600.00</u>
Total Authorized for Project	\$ 29,900.00

ENGINEER may alter the distribution of compensation between individual phases noted herein to be consistent with services actually rendered, but shall not exceed the total Lump Sum amount unless approved in writing by the CLIENT. The Lump Sum includes compensation for ENGINEER’s services and services of ENGINEER’s Consultants, if any. Appropriate amounts have been incorporated in the Lump Sum to account for labor, overhead, profit, and Reimbursable Expenses. The portion of the Lump Sum amount billed for ENGINEER’s services will be based upon ENGINEER’s estimate of the proportion of the total services actually completed during the billing period to the Lump Sum.

ENGINEER’s Reimbursable Expenses Schedule and Standard Hourly Rates are attached to this Exhibit B. Reimbursable Expenses included in the contract are limited to items listed in Exhibit B. All expenses that are not included in Exhibit B shall be considered outside the contract and shall be considered as extra and compensated for at cost. For example: title commitments, permit fees, architectural renderings, special public meetings, out of town travel expenses, consultant services beyond those identified in the scope, or items specifically requested by the owner.



