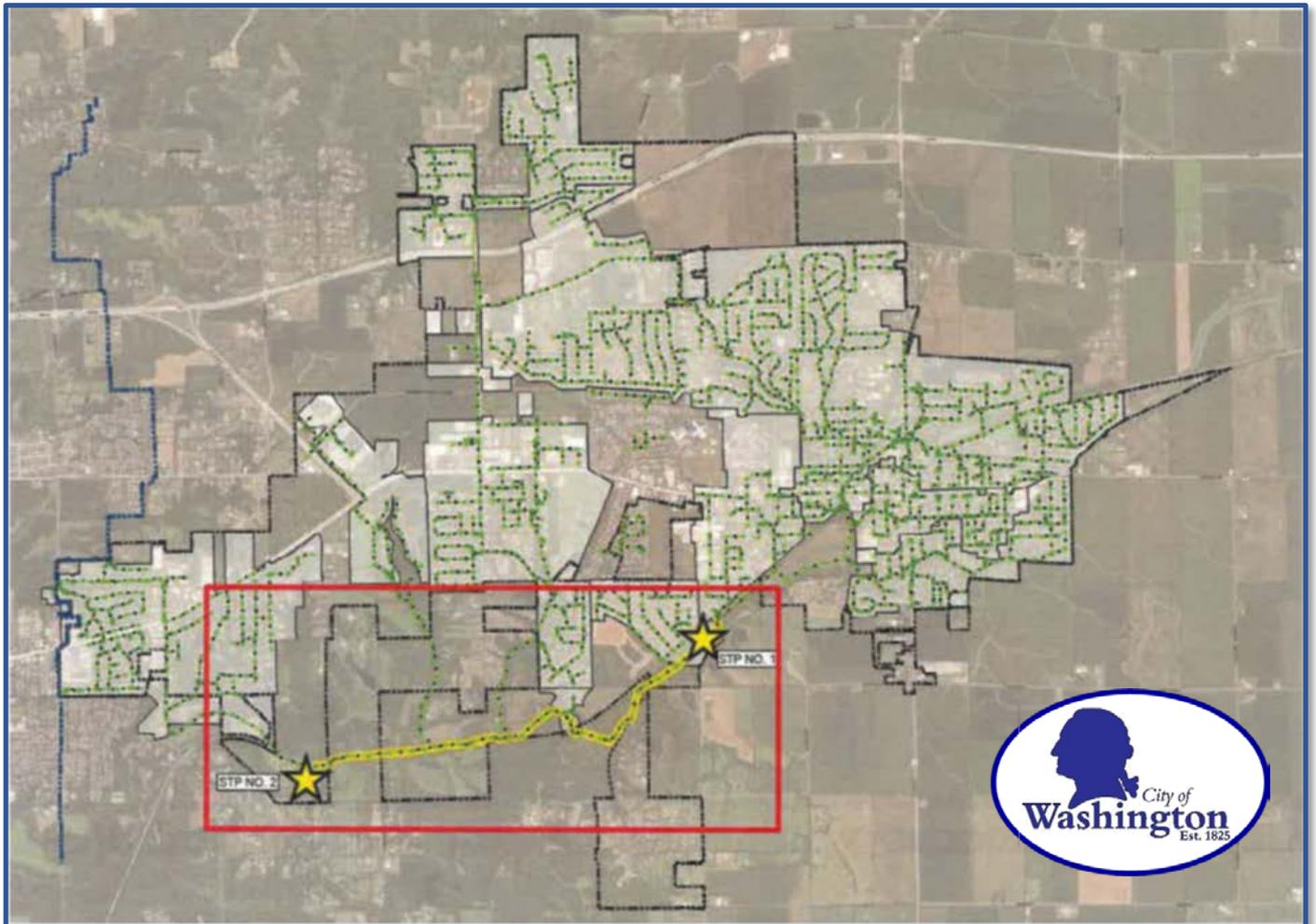




Certified DBE-WBE-BEP

**Proposal to Conduct a
3rd Party Alternative Alignment Analysis
for the
Farm Creek Trunk Sewer
City of Washington, Illinois**



Hamilton Consulting Engineers, Inc. September 8, 2021



September 7, 2021

City of Washington
301 Walnut Street
Washington, IL 61571

Re: Statement of Interest and Qualifications
3rd Party Alternative Analysis - Farmdale Creek Trunk Sewer

Dear City and Staff,

Thank you for the opportunity for Hamilton Consulting Engineers, Inc. (HCE) to provide this Statement of Qualifications and Interest for the referenced project, a critical review of a critical project for the City of Washington, its citizens and its businesses. We feel our firm is uniquely qualified to help the City achieve timely analysis of the sewer design and the most favorable outcome for the proposed projects in Tazewell County, Illinois

Your team for these services will be led by Howard Hamilton, PE, CFM, CPESC and staffed by a full contingent of support staff ranging from a Professional Land Surveyor, CAD/GIS Specialist and professional engineers and technical staff.

HCE is also a Certified Disadvantaged Business Enterprise (DBE) with the Illinois UCP, and a Woman-owned Business Enterprise (WBE) with the City of Chicago and State of Illinois CMS, offering diversity to the City. We have been in business since 1955, and this longevity is due to our commitment to provide ***innovative, cost-effective and sustainable engineering and surveying solutions based on trust and exceptional service.***

Please also note:

1. HCE acknowledges receipt of electronic copies of:
 - a. Request for the Preliminary Engineering Study for the Farm Creek Trunk Sewer
 - b. Addendum 1 to the 1. above
 - c. Preliminary Engineering Study for the Farm Creek Trunk Sewer
 - d. Presentation made by Aptim
 - e. Presentation given by Strand
 - f. Revised document titled "Strand's Full Presentation"
 - g. Handout as addendum to Aptim's presentation, file titled "Route Data Comparison Handout 8-2-2021"
2. This letter covers the disclosure statements as required by the Request for Proposal documents:
 - a. **Section 10.0 Conflict of Interest:** Hamilton Consulting Engineers, Inc. has no known conflicts of interest for this work.

- b. **Section 10.1 Suspension and Debarment:** Hamilton Consulting Engineers, Inc. has no suspension or debarment actions to report.

Please do not hesitate to contact our team at 815-730-3444 or:

Kristen R. Hamilton, Chairman and CEO

khamilton@HCEmail.org

Howard J. Hamilton, PE, CFM, CPESC, President - Project Manager

hhamilton@HCEmail.org

with any questions.

Very truly yours,
Hamilton Consulting Engineers, Inc.



Kristen R. Hamilton
Chairman and CEO



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STATEMENT OF INTEREST AND PROJECT APPROACH: Introduction

The City of Washington has a challenge that Hamilton Consulting Engineers, Inc. (HCE) has faced many times in the life of our firm. The City has an important, expensive project that will benefit the City as a whole, but it is a concern to many. We have dealt with this same situation with trunk sewers, roadways, utility extensions, stream improvement projects, logistics parks, landfills and the list goes on. Almost every large-scale project will have detractors that may present very logical arguments. The addition of a third party who can evaluate a project from different perspectives, and sometimes serve as an advocate for varying points of view, can help build a unity of purpose rather than further the divide between parties. We have experience in mediation and expert testimony but feel that the majority of the need for the City of Washington and its residents is technical expertise. As experts in sewer planning, and in land acquisition for IDOT and the Illinois Tollway, Hamilton Consulting Engineers brings both technical expertise and negotiating skills to serve as a partner for all affected parties for the Farm Creek Trunk Sewer Replacement project. We look forward to working with you.

This proposal is divided into two sections. The first section strives to give the reader a brief understanding of our qualifications, history, and approach to the City of Washington's circumstances. The next section provides in exhausting detail the background and resumes of the key personnel who will form your professional engineering team. Should you wish an interview to learn additional information, firm President Howard Hamilton, your Project Manager, will meet with you at a time of your convenience.

I. General Work Plan

Hamilton Consulting Engineers, Inc. brings together three **Core Competencies, in addition to our IDOT Prequalification in Special Services – Sanitary Engineering**, that will assist the City of Washington in evaluating the options they have to consider.

1. Experience with Public Bodies
2. Experience with Regional Sewerage Plans
3. Experience with Land Acquisition

Through this experience we know how we intend to approach this project, understanding that alternate direction may be provided at any point in the process, or information may be uncovered that allows suggested steps to be eliminated and/or additional steps to be added.

The Nine Step Process:

1. Collect Data Utilized for Previous Reports, 2-3 weeks

There is no shortcut to this step.

Strand Data

The City has been working with Strand to develop the current report. HCE will need to know what portions of the report are settled, and what portions require re-evaluation. However, before we can ask those questions, we need to understand the data that was utilized to create the report. Also, if the topographic survey for the selected route has been completed, we would like access to that as well as it will be more accurate than any other available sources of data. Complete analysis of the flow data, population data and peaking factors that were used to compile the Strand report is necessary. City staff's understanding

of that data is also critical. Although a large portion of this work will be “number crunching” and research, we anticipate significant discussion with City staff to avoid evaluating dead-ends that have already been considered. The homeowner’s consultant will also be contacted to learn their understanding of the issues.

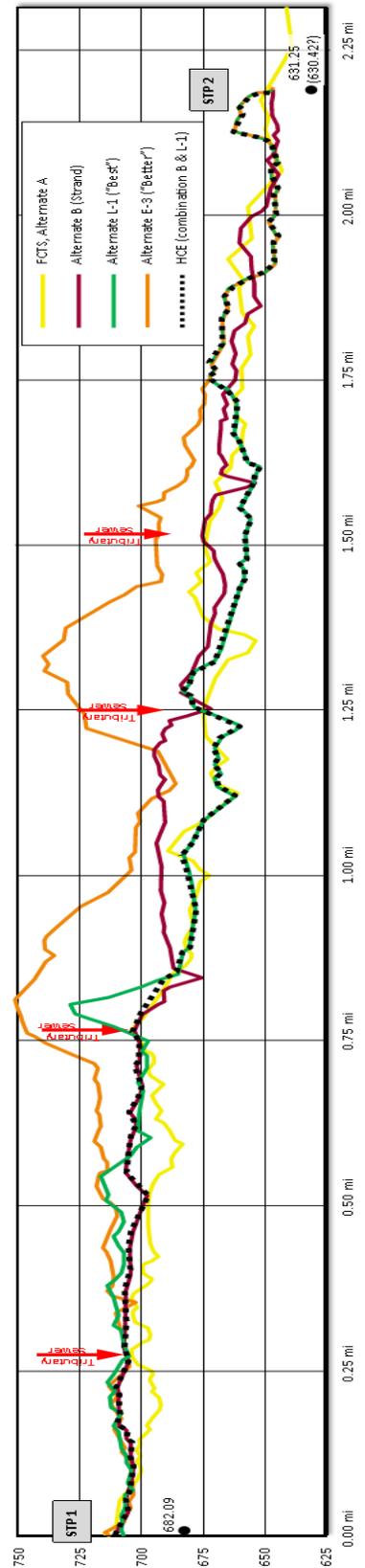
Tazewell County LIDAR, GIS Exhibits

By utilizing Google Earth, we have been able to prepare a comparison profile of the viable alternatives (right margin). We have also added an alignment of our own that combines Alignment B and Alignment L-1 to avoid a 40-foot hill approximately 0.80 miles from STP 1.

This is a simple, low-tech analysis, and it may have pitfalls that aren’t obvious with limited data, but it shows how data can be displayed in an easy-to-understand manner. With improved data using LIDAR and GIS, and on-the ground observation of the alignments, HCE can produce accurate exhibits that can be utilized for accurate quantity take-offs and estimates. It will also allow us to quickly evaluate “what-if” alignments as our work together progresses. HCE has provided multiple clients varying levels of GIS deliverables ranging from minimal feature-class GIS databases to complex 100+ feature-class GIS databases over the past thirteen years with efficiency and accuracy. We have supplied both field data collection and database population/management services. Our staff is on call for fast turnaround assignments and can mobilize on short notice. Please reference attached project sheets detailing some of our GIS work.

2. Interview City Staff (may include elected officials, may include Strand), Week 3

Normally we consider this to be the first step as client direction is critical. However, in this case we need to have a thorough understanding of the technical issues which are discernible from research, before learning intricacies from the City. This where we can share our findings, ask questions to complete our understanding, and the City/Consultant can offer clarification and “fill-in” the gaps.



3. Interview Homeowner Representatives, Week 3

HCE and Howard Hamilton especially is extremely experienced working with residents. Listening and respect goes a long way toward developing a common understanding of issues. A small format “get to know you” meeting lets information be gathered with more listening than talking. This is not a public hearing, nor an open house. This is presented as an opportunity for a few of the residents to share their concerns, observations and knowledge with the new guys. In our Land Acquisition projects for IDOT, the Tollway, and representing property owners we have found this approach to be successful toward building a unity of purpose most of the time. Not all the time, but definitely most of the time. (Engineers tend say “this is how it is” but reality does not work in absolutes.)

In Howard’s time as the County Subdivision Engineer for Will County he was able to utilize this approach as a step in public infrastructure and land development projects. We also used it for projects including the South-Central Interceptor in Minooka where there were concerns regarding damage to wooded areas, and habitats for bats, orchids, birds of prey, and snakes – which were identified and protected. The sewer alignment was adjusted to preserve mature trees and today the sewer easement is kept clear and provides access through the woodlands that had been cluttered with erosion causing undergrowth before the sewer was constructed.

4. Draft Report, Weeks 4-8

The draft report of our recommendations will be completed and presented to the City first in written form and then in a meeting with staff. Technical resident input may be added at the City’s option.

5. Report Revisions, Week 9

Comments on the Draft Report will be incorporated into the report.

6. Public Hearing, Weeks 10-11

The revised report will be reviewed by City representatives, then made available for public review and input. Typically, we allow 45 days for this step on Tollway and IDOT projects, but the stated timeline requires it to be shortened. Also, since affected public input has already been sought it is anticipated that significant new comments will be few. The format is usually an open house with exhibits, brief handouts, comment cards and a stenographer to collect public input.

7. Final Draft Report, Weeks 12-13

Comments from the public hearing will be included and addressed to provide the final draft for review and comment.

8. Presentation to City Council, Week 15

Our final report will be presented at a City Council work session. City Council input will be sought, and public comment may be allowed at City option. Later that week, after we have compiled questions and comments, we will again meet with City and homeowner representatives (mainly technical staff) to discuss if there were comments or questions that

necessitate a response, or if the report can be finalized with the last comments offered as an addendum.

9. Final Report, Week 16

The final report will be presented in digital and hard copy format. A digital appendix of all meeting minutes, correspondence and emails will be included.

The report will analyze at least four alternatives and clearly present a preferred alignment alternative along with Engineer's Opinion of Probable Construction Cost for each alternate. Each alternative will be evaluated through a matrix of goals including, but not limited to:

- a. Environmental Impacts
- b. Cultural Resource Impacts
- c. Landowner Impacts (easement locations)
- d. Accessibility
- e. Future Service Area Expansion Opportunities
- f. Permitting Issues (IDNR, USCOE, IEPA)
- g. Licensing, Crossing Agreement Requirements (Railroad, any other utility)
- h. Impact On Residents of the City (immediate and long-term)
- i. Opinions of the Residents of the City (if any)
- j. Preferences of City Staff
- k. Cost Effectiveness (short-term and long-term costs)
- l. Constructability. Although this is a component of short-term cost-effectiveness, it is less easy to quantify. As an example, there are dozens of companies that would compete to construct a 15-foot-deep sewer in stiff soils. There are only a few that can construct a 50-foot-deep sewer through bedrock. Less competition generally results in higher costs to the City.
- m. Others as found necessary

II. HCE Relative Experience

Hamilton Consulting Engineers, Inc. has designed hundreds of miles of sewer mains since our founding in 1955. A few highlights include Plainfield, Crest Hill and Manhattan.

For Plainfield, Illinois we created a sewerage plan nearly 30 years ago that took the town of 4,500 residents to the current population of approximately 45,000. The major gravity of interceptors of Rte. 59 North, Rte. 59 South, Renwick Road, and Plainfield Road South allowed that growth to occur. The VanDyke Road Interceptor Sewer allowed their old WWTP to be abandoned in place of a new plant one mile upstream.

The Crest Hill Sewerage Plan, East and West Plant Interceptors, West Plant Relief Sewer, and Rock Run Interceptor allowed the town to grow and annex Stateville Prison adding tax base.

Manhattan's five separate Sewerage Service Plans and multiple sewerage service studies created the blueprint for nearly an entire township. **The Wauponsee Glacial Trail Gravity Interceptor Sewer was constructed as the backbone of that plan.**

As the City/Village Engineer for many communities we have provided peer review of the sewer plans for hundreds of developments. In addition, we have been hired several times to provide peer review of other's work. Twice this has been for work by Strand.

Our first Strand review was for the City of Braidwood, Illinois to review their WWTP design and provide a few tweaks to the inlet pumping plan and SCADA system. This resulted in our retention as the construction management team for the project.

The other Strand project was to review the City of Joliet's CSO plan and provide recommendation to the Joliet City Council of the sewer layout and design. After evaluation of two additional alternatives, we found that Strand's plan, though expensive, and difficult to construct, was the most cost effective. Howard presented the findings to the Council in a work session with questions from and answers to the Council and attendees. The project was constructed with no revisions.

For working with elected officials in public meetings, Howard Hamilton excels. His lifetime of experience in engineering (as evidenced in his attached resume) gives him a working knowledge of every issue and side issue for a sewer project. As the first Stormwater Administrator of Will County, he led monthly public meetings. As the City/Village Engineer for several communities he has grown comfortable with being able to answer questions from elected officials, and the public (when so directed).

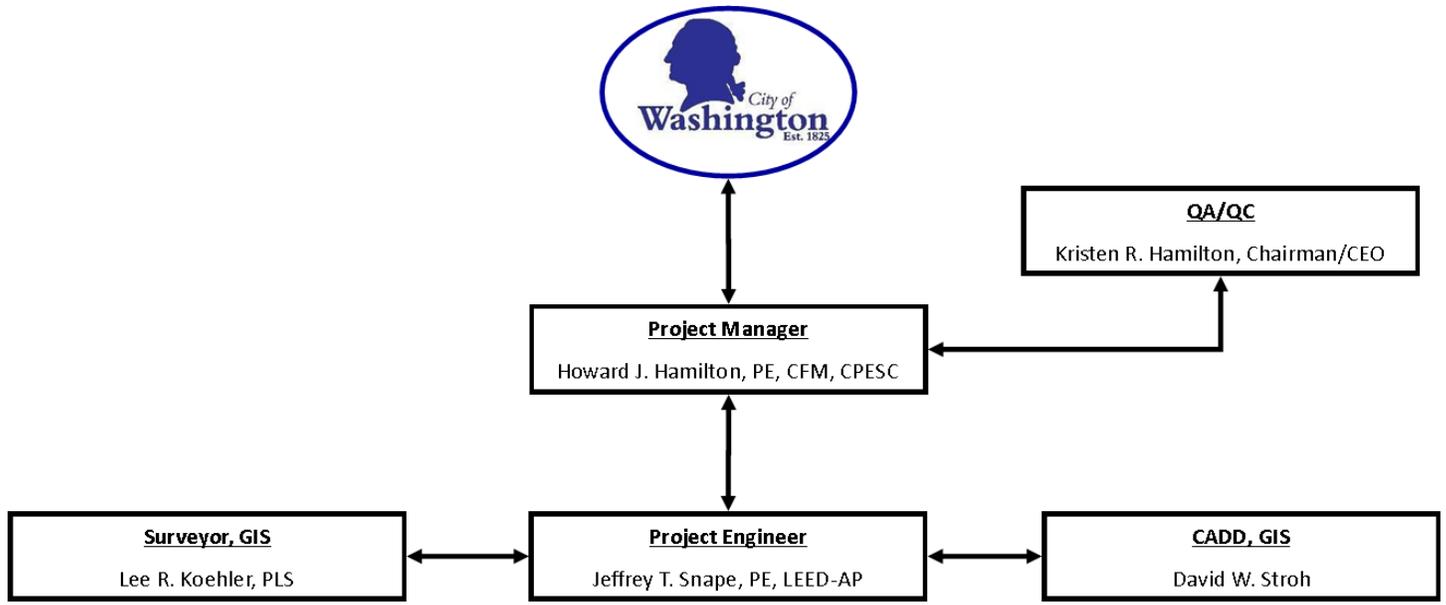
III. Qualifications of Project Manager and Key Personnel

The organizational chart for the key personnel that will be working with the City of Washington follows. Firm President Howard Hamilton will be your main point of contact. The resumes of each of these professionals are included in this proposal.

While it is normal procedure for each project to have a contact engineer, the development of the project is accomplished through team effort. This team approach, we have found, is particularly beneficial because not only does it utilize the expertise and experience of all the staff, but it also keeps the project on schedule, even if the engineer in charge is temporarily unavailable.

For the City of Washington, the HCE team presented is 100% available and 100% committed to provide excellent service on time and on budget.

The Key Personnel listed are supported by a full contingent of technical and administrative support staff.



IV. Experience in Developing Route Options

Although the homeowners group appears to take exception to the routing, planning sewers to follow streams makes sense for the following reasons.

1. Water flows downhill, so if a sewer follows a stream, you can design the sewer to follow its slope and thereby keep the depth of the sewer relatively constant.
2. A stream is the low point in land, so the property upstream and right & left of any point on a stream is higher than the stream. Therefore, a sewer following a stream is the best location to collecting gravity sewerage from a watershed.

The existing Farm Creek Trunk Sewer was designed to follow the creek for exactly these reasons.

However:

- Streams are subject to ecological damage by erosion during sewer construction
- Streams are seldom accessible for their full length
- Streams are a source of water that can lead to infiltration/inflow into the sewer
- Work in/near a stream is restricted by ordinances and state & federal regulations.

Therefore, trunk sewer plans seldom stay within the lowlands adjacent to streams. Each of the plans mentioned in Section II. above had portions that followed stream beds, but none of them were actually built there. The plans served as guides for the proposed inverts, slope and diameter (capacity) of the sewers, but the final designs were based upon availability of land, bedrock elevations, and necessary setbacks from habitats, cultural resources and natural areas.

Manhattan was an excellent example of this. We presented five separate alternatives (we developed many more) to provide sewerage service to the same nearly 32 square mile area. With LIDAR availability and GIS expertise, we will be able to create many options for the City of Washington.

V. A Brief Introduction to Hamilton Consulting Engineers

In today's world of corporate conglomerations, Hamilton Consulting Engineers, Inc. (HCE) stands out. We are a 66-plus year-old family-owned company that understands the value of personalized service and dedication. Our commitment, affirmed simply in our mission statement, is *to provide innovative, cost-effective, sustainable solutions based on trust and exceptional service.*

In 1955, WWII veteran and University of Illinois-educated engineer Robert E. Hamilton opened an office for the practice of Consulting Engineering to provide the highly specialized sanitary design engineering services to other engineering firms and, on a limited basis, directly to clients. Sewage treatment and water supply projects were designed throughout the states of Illinois, Indiana, and Ohio.

Specifically, the company planned the first municipal treatment plants for the Illinois municipalities of Frankfort, Minooka, Mokena and New Lenox and the firm helped develop a water system for the new Hillcrest Shopping Center in the late 1950s allowing the City of Crest Hill to develop around the retail center.

Through client demand, the area of engineering practice was gradually expanded to cover a broader range of civil engineering for full-service municipal consulting including Transportation, Hydrology-Hydraulics, Land Surveying, Forensic Engineering and Expert Witness work.

The HCE team has several advantages.

First, we “own” our projects as our clients own them. Whether we are working on a short sanitary sewer extension or a regional trunk sewer, we treat these projects as if they were our own. We are careful to evaluate the costs and impacts associated with each project and look at all possible alternatives to ensure the City and its residents are provided with the best value for their needs. Additionally, our dedicated staff cares about the project and goes above and beyond by providing more than just a design service. We work with the owner through the entire process to ensure that together the result is a custom fit project to meet everyone's needs.

Second, our team specializes in working for governmental agencies. Because of our long history and focus on assisting municipalities, counties, and the State, we understand the challenges governments face and have developed programs to ensure we meet your needs. These programs include utilizing an internal quality assurance program, offering constructability reviews, ensuring staff are trained in the latest methods, and assisting communities with funding opportunities. We also recognize the importance of communication not only between ourselves and the client, but with all stakeholders. We pride ourselves in having open communication and clear records which results in satisfied clients and successful projects.

Thirdly, we emphasize a comprehensive approach to engineering. While many engineers tout their specializations, we know that it takes an extensive level of knowledge of more than just a “specialty” to see a job through from start to finish. None of our senior engineers are limited to only one field of practice—we have found that too much specialization when serving governments can

lead to short-sighted answers for the complicated and inter-related issues that communities face when planning, designing and constructing infrastructure and facilities for their residents.

Our staff is recognized as extraordinary professionals in sanitary sewer design, stormwater, hydrology, wastewater treatment, water supply, transportation, and land acquisition.

A fourth distinctive quality of the firm is that, with the exception of clerical staff in our office in Trinidad & Tobago, all the professional staff at HCE are housed in one location. This is designed to promote team collaboration and foster partnerships between all personnel. As a result, work for the client flows smoothly and quickly. Having staff at one locale also allows us to be efficient and results in an overall lower cost to our clients.

It is these differences that enable us to best serve our clients and affirm our mission statement to provide innovative, cost-effective and sustainable solutions based on trust and exceptional service.

VI. Disclosure Statements

As stated in the preceding cover letter, please find the disclosure statements as required by the Request for Proposal documents:

1. **Section 10.0 Conflict of Interest:** Hamilton Consulting Engineers, Inc. has no known conflicts of interest for this work.
2. **Section 10.1 Suspension and Debarment:** Hamilton Consulting Engineers, Inc. has no suspension or debarment actions to report.

RELEVANT PROJECT EXPERIENCE

Wauponsee Interceptor, Phases I, II and III, \$2.1M - Village of Manhattan, Illinois

This work included the construction of 15,347 lineal feet of 27” sanitary sewer and appurtenances from the Village’s Wastewater Treatment Plant to Baker Road. This project involved obtaining easements from the Forest Preserve District and a number of gas pipeline crossings. Hamilton Consulting Engineers, Inc. also obtained permits from the IEPA and IDOT. The project included boring and jacking the sanitary sewer under U.S. Route 52. Our services included topographic surveys, preliminary and final engineering plans, specifications, review meetings, construction layout, construction observation and pay request preparation.



Offload Interceptor Sewer, Phases I and II, \$915,000 - City of Crest Hill, IL



Scope of work for this project included the installation of approximately 1600 LF of 15” sanitary sewer and 500 LF of 12” sanitary sewer. It was designed to avoid the endangered lady slipper and white prairie fringe orchids. Additional precautions had to be taken to avoid any negative impacts to the endangered Blanding’s Turtle, while the Alessio Prairie was adjacent to the site, and the design incorporated measures to avoid dewatering the wetlands on that site.

When HCE first presented this sewer alignment to the FPDWC, US Fish and Wildlife Service, Army Corps of Engineers and Illinois Department of

Natural Resources, there was doubt that the project could be constructed without permanently damaging the Preserve. However, after cooperative meetings and natural area surveys with subconsultant, Planning Resources Inc. (PRI), we were able to negotiate a mutually agreeable alignment and license on behalf of the City of Crest Hill. This included specific restoration methods throughout the construction area, as well as modified construction methods to minimize damage to existing resources. The contractor realized the potential complications with this construction project and complimented us at the completion on the end result of the project.



PROJECT OWNER/CLIENT:

Various

LOCATION:

DuPage, Kane, Will Counties, IL

COMPLETED:

Work in-process since 2008

SERVICES PROVIDED:

GIS Mapping and Database Support

PROJECT TEAM:

PROJECT SURVEYOR - Lee Koehler, PLS

CAD/GIS MANAGER - David Stroh

PROJECT SPECIALIST - Derek O'Sullivan, CFM



GIS MAPPING AND DATABASE SUPPORT

Hamilton Consulting Engineers, Inc. (HCE) has provided multiple clients varying levels of GIS deliverables ranging from minimal feature-class GIS databases to complex 100+ feature-class GIS databases.

City of Joliet

For over 10 years, HCE has been providing the City of Joliet utility mapping and GIS services. We have been awarded numerous contracts to **map and load data into the City's geo-database**. The City's map has grown from a minimal feature GIS database to complex database with more than 100 unique feature types. Nearly every aspect of the water, sanitary and storm system is currently in the map. The City now has an inventory with survey-grade location on water valves, pumps, pipe size and joint locations, manholes, fire hydrants, service valves and meters, etc. In addition to the locations, we also collected data from a checklist that was incorporated into the database.

Our locating and mapping services included using radio detection equipment to locate underground piping, metal detection to locate buried valves, and Survey grade GPS equipment. **Our deliverables were submitted in a GIS file geodatabase using the latest edition of ESRI GIS ArcMap desktop software.**

Illinois Department of Transportation

HCE was selected to participate in an Illinois Department of Transportation (IDOT) District 1 pilot program to develop a GIS database intended to inventory storm systems in the IDOT right-of-way and to track water inflow and outflow locations in accordance with EPA National Pollutant Discharge Elimination System (NPDES) requirements.

The work we provided in the pilot program led us to multiple IDOT workorders to **map county-wide roadway corridors and load the field data into the NPDES GIS database**. At present we have completed IL RT 64 North Avenue (Kane and DuPage County), IL RT 53 (Will County), IL RT 20 Lake Street (DuPage County), IL RT 56 Butterfield Rd (DuPage County), IL RT 38 Roosevelt Rd (DuPage County). **Additionally, we have provided GIS services to load the NPDES database with data acquired by other consultants and IDOT staff.**

Illinois State Toll Highway Authority (ISTHA)

HCE provided ISTHA Land Acquisition Department various GIS deliverables focused on parcel boundaries, right-of-way and easement limits.

Some of the property boundary data was collected by our survey team with the remainder of the coordinate data provided by the client from previously completed work orders by others.

After compiling the property boundary data into an ISTHA GIS database, HCE **incorporated a matrix of parcel-specific information** collected by our engineering team.



Relevant Projects

IDOT DOT19-LAC-D1-01 and Tollway PSB 12-3 Item 23 - Specialty Reports

Our staff has been preparing Specialty Reports in support of real-estate appraisals, agency negotiations and condemnation cases for over twenty five years. **In that time our clients have included the Illinois Department of Transportation, Illinois Tollway, many local agencies and a range of land owners, attorneys and corporations.**

In recognition of this expertise, Hamilton Consulting Engineers, Inc. was selected by both IDOT (Contract LAC-DOT19-D1-01) and the Illinois Tollway (Contract PSB 12-3 Item 23) to provide comprehensive real-estate services, including all the Tollway’s Specialty Reports for the Move Illinois program within the I90 and Elgin-O’Hare Corridors.

To date we have prepared over 120 Specialty Reports Our work has extended from simple sign relocations to more complex analysis of code requirements, site circulation, parking replacement, structural feasibility and drainage modification. These reports have been expansively used for Phase II Value Engineering reviews, resulting in cost saving changes to contract plans. They have also led to several successfully negotiated parcels and in contested matters, our expertise has supported condemnation litigation that has fully supporting the project schedules.

No matter the complexity of the taking, we approach each Specialty Report with due care, knowing that these reports serve to support the appraisal valuations and that our opinions remain subject to exacting scrutiny of an eminent domain case. In that light, we take note to professionally review all critical facts before formulating any opinion and study those factor before tabulating a cost to cure position.

- Zoning and Current Use
- Building and Code Requirements
- Title Commitment (ownership, secondary easements and potential use/cure limitations)
- Roadway Improvement Plans, Specifications and Project Schedule
- ROW Plat and Legal Descriptions for Fee, Permanent & Temporary Easements and/or Access Control
- Mapping and pick-up survey needed to understand existing site improvements, field study of the site current operations attentive to access, circulation, utilities, drainage and code/zoning conformance

It is only after completion of this fact finding that we begin to detail curable efforts needed to support and maintain current operations - and we complete our studies before assessing any new limitations being imposed on the site in the post-taking condition. The following examples, though not exhaustive, offer a highlight our recent real-estate services work with Specialty Reports.

Parcel EO-1B-12-068, Prologis Properties at 170 Thorndale Avenue, Bensenville, IL

Our review of the impacts to this single user office/industrial site resulted in the modification of ROW interests from a Fee taking to a Drainage PE. With this modification the owners remained in compliance with Bensenville’s setback requirements, however, it was necessary for them to reconstruct a portion of the parking facilities, relocate bollards and replace their pylon monument sign. Our analysis coupled with a cost to cure estimate supported the Tollway’s appraiser opinion that the current highest and best use would be unimpaired and that non-curable damages would be relatively insignificant. The Tollway was successful in negotiating this acquisition without bringing an eminent domain action.

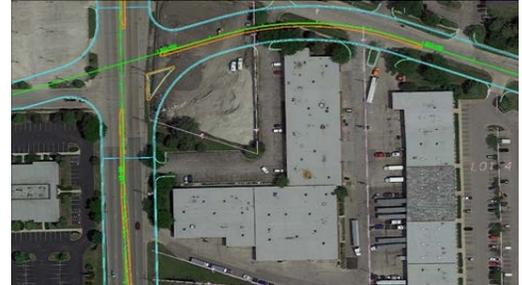


Relevant Projects

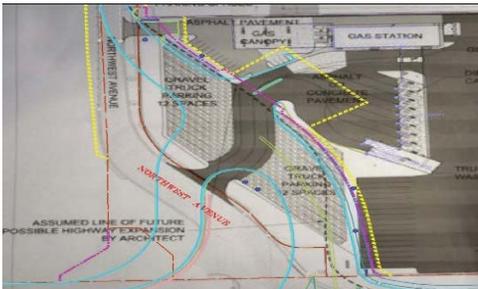
IDOT DOT19-LAC-D1-01 and Tollway PSB 12-3 Item 23 - Specialty Reports

Parcel NW-7A-12-102, Rodgers Industrial Park at 1501 Elmhurst Road, Elk Grove Village IL

The taking from this parcel from a multi-tenant industrial site impacted parking, access, circulation and off-set requirements. Our Specialty Report detailed the costing of parking lot reconstruction and site appearance relocation (signs and bollards) and further presented analysis relative to operational efficiencies of truck bays in the post-taking configurations. Though the matter was referred to condemnation, our analysis and detailing of costs allowed the SAAG to secure an agreed Quick-Take which has since led to a timely settlement favorable to the Tollway.



Parcel TW-7-12-003, Valinvest Holding, LLC at 300 North Avenue, Northlake IL



The taking from this truck fueling station required analysis of circulation patterns and a determination of post-take utility of the fuel pumps, truck wash, parking and convenience center. The net impact here has resulted in some extensive curable expenses, but our review supports an opinion that the site functions to support a continued highest and best use in the after. Our analysis work resulted in an agreed Quick Take and continues to support the litigation position of the Tollway.

Parcel TW-7-12-026, McMaster Carr, Inc. at 600 N. County Line Road Elmhurst IL

The taking from this 60 acre office and industrial site requires modification to the internal circulation roadways, parking lot reconstruction, water main relocation, pedestrian entryway and landscaping improvements. Our Specialty Report has detailed the curable costs for these items and has given the Tollway and owners a basis for agreement on these aspect of the taking, which will allow the owners to address all needed cures in advance of the project.



Parcel WA-3D-12-006, Groot Industries, Inc. at 1759 Elmhurst Road, Elk Grove Village IL



The taking from this waste/recycling transfer facility requires removal of buildings and reconfiguration of their “tipping” platform. Our study centered on truck circulation, turning movements and operational efficiencies to create a plan for post-taking platform modifications. We have opined that ramp modifications, backfill, new pavements and a retaining wall would support the current operations of the tipping platform. The costs of these cures tallied nearly \$2.0M and have supported the

Tollway’s offer for this complex taking and provided a basis for the appraiser to certify their post-taking highest and best use opinion.

Wastewater Treatment Plant, Phases I, II and III, \$6.2M - Village of Manhattan, IL

Hamilton Consulting Engineers, Inc. prepared a Facility Plan Amendment (FPA) expansion for the Village of Manhattan to increase the service area and capacity of their wastewater treatment plant, develop plans and specifications to construct the project, and handle the bidding and construction management of the project.

The project consisted of modifications to existing treatment tanks and construction of new tanks and facilities to expand the plant. Major components of the project included construction of new concrete tanks, sludge building, demolition and removal of existing facilities, modifications to the existing control building, and construction of flow control structures and pump stations. This project involved the replacement of the influent pump station.

The firm designed sludge pumps, influent pump station, aerobic digesters, site piping, influent bar screen, site grading, and layout of the administration building to expand the plant capacity from 0.42 MGD to 1.3 MGD. The influent pump station included five 30 hp pumps and involved reusing portions of the existing pump station, necessitating bypass pumping for a period of time. This configuration provided 5 MGD of wet weather capacity for the Village.



The firm acted as site resident engineer for construction and performed all concrete testing. As the resident engineer, HCE worked with the contractor throughout the construction phase to implement ideas that would save the village money, which allowed the project to come in under budget. HCE assisted with electrical load sizing, conduit and wire sizing, switch gear needs, and transfer switch with generator. The village property contained floodplain and neighbored two subdivisions. These factors and the need to maintain sewage treatment during construction provided unique challenges to the expansion. The key factor to obtaining the NPDES discharge permit granted by the IEPA was working with interested environmental groups before the permitting process to resolve their concerns and avoid costly delays during the permit process.





Clearview Sewer & Watermain Improvements, Phases I, II and III, \$4.0M

Will County, IL Health Department

Work scope included senior project management, project development, loan and grant application coordination, design coordination, and construction management for three separate and concurrent projects to install sanitary sewers, storm sewers, watermains, roadway improvements, and individual service connections within an aging residential subdivision. Loans and grants were applied for from the IEPA Drinking Water Loan Program, the IEPA Water Pollution Control Loan Program and the HUD-CDBG program. In total, 7,600 LF of 6", 8" and 10" watermain and 6,660 LF of 8", 10", 12" and 15" sanitary sewer was constructed, including watermain valves and hydrants, and sewer manholes and clean outs.

Several unique aspects of the project were that existing water supply systems were owned by a water association whose watermains were typically located in rear yards. New watermains were constructed in front roadway rights-of-way for improved access. Approximately 130 water services were relocated from the back of houses to the fronts. New water service work included connection to existing interior plumbing, new water meters, coring and piping through existing foundations, and restoration of all disturbed areas, from roadways to private landscaping. After confirmation that all new services were active and all residents served, the old system was disconnected and abandoned.



HCE also provided all construction engineering, including bid services, preconstruction conferences, observation, pay requests and change orders. In order to maintain high quality, efficient construction, the specifications required the contractor to provide detailed sketches with dimensions for the new sewer and water services, abandoned septic systems, etc. HCE was then able to compare sketches with the invoiced quantities and randomly field verify work to ensure the project was completed with honesty and trust.

The 5-year project involved many meetings with homeowners, elected officials from the City of Joliet, Joliet Township, Will County, and the Illinois House and Senate, along with coordination and permitting through a multitude of agencies including several Will County, City of Joliet and Joliet Township departments, the Illinois Environmental Protection Agency (IEPA), the State of Illinois Department of Commerce and Community Affairs (Illinois 1st), and Illinois Department of Transportation (IDOT).



Ridge North Water/Sewer Improvements, Phases I, II and III, \$1.5M – Minooka, IL

Hamilton Consulting Engineers, Inc. designed, prepared the plans and specifications, and secured permits for the extension of watermains and sanitary sewer lines for this project. The firm was also responsible for bidding and construction management, including pay requests, shop drawing review for the lift station, and contractor questions.

The Ridge North Water and Sewer Extension is located along Ridge Road in Minooka and included the survey, design, permitting, and construction oversight of approximately 800 LF of 12" watermain, 11,000 LF of 16" watermain, 3,700 LF of 12" force main, 300 LF of 15" sanitary sewer, and 3,100 LF of 18" sanitary sewer.

This included the boring and jacking of the sanitary force main and 16" watermain underneath of I-80, including all necessary permits and coordination with the necessary agencies.

A duplex pump station with 20 hp pumps was designed and installed north of I-80. In addition to the permits for the I-80 crossing, IEPA permits were also obtained for this project. The project cost was approximately \$1.5 Million, with the project completed within one year.





Ridgewood Sewer & Water Improvements, Phases I, II and III, \$5.0M Will County, Illinois Health Department

Located in unincorporated Will County, the Ridgewood area has experienced sewer and water health hazards for over a century, including inadequate sewage service resulting in raw sewage running in the streets and contamination to groundwater wells. To correct this, five phases of watermain and sewer improvements were designed, and a concept for managing surface drainage has been devised. While the Will County Health Department was the sponsor of the project, the sewer and watermains are connected to the City of Joliet system, requiring coordination between both parties. Additionally, much of the area is served by either a sanitary district, which was to remain intact, or various water associations, which were to be dissolved upon completion of the project.

Phases 1 and 2 were funded by Will County CDBG funds, included the design and construction of 2 miles of water and sanitary sewer to provide 75 homes with sewer and water service. Phases 3, 4, and 5 included nearly 3 miles of watermain and sanitary sewer to serve 230 homes. HCE was responsible for survey, design, funding applications, and construction observation.

Because of the age of the subdivision and the number of existing utilities, many of the mains were placed in the street, which required establishing proper traffic control, including detour routes. Especially critical were the lane closures on two streets that were part of an ambulance route to nearby Silver Cross Hospital. Additionally, work within IDOT's right of way along Route 30/Cass Street required coordination and permit approval from IDOT.



The most challenging coordination was along Will County Department of Highways' Briggs Street. With very little room within the right of way, existing utilities located on both sides of the street, and both water and sewer mains needing to be installed along this portion of the project, one of the mains needed to be located under the pavement. Due to IEPA water and sewer separation rules, the main needed to be located near the middle of the road, and the county requested that the entire roadway be closed during this portion of the work. This road is both a hospital route and a truck route, so finding alternate routes that could handle the size and loading of the vehicles was vital. With one of the detour route roadways being an IDOT road, approval was needed for the detour route. Success throughout this project has been attributed to our ability to keep all parties informed throughout construction, including the Will County Department of Highways, IDOT, and Silver Cross Hospital.

The area has no storm sewers and limited swales and stormwater from Ridgewood flows down the streets flooding homes, a railroad, and an historic cemetery. Future phases of the Ridgewood redevelopment plan include roadway improvements with curb and gutter thus necessitating a storm sewerage system. To accommodate the drainage, we calculated the conveyance and detention needs for the area and found that the best route to Hickory Creek was through an often-flooded cemetery. A ground-penetrating radar survey of the proposed route reveals it to be free from graves, and an understanding with the church that operates the cemetery will preserve the route for construction when additional funds have been dedicated to the project.



RidgePort Logistics Center Sewer & Water Extension, Phases I, II and III, \$2.1M Wilmington, Illinois

The 1,900-acre RidgePort Logistics Center is located in an un-serviced portion of the City of Wilmington. To provide the development with water and sewer, it was necessary to extend the City's existing utilities to the proposed development. This includes approximately 6,540 lineal feet of 15" PVC sanitary sewer and 10,500 lineal feet of 16" ductile iron watermain.

Ultimately, it took permitting or licensing agreements from the Illinois Department of Transportation, Will County Department of Highways, Commonwealth Edison, three pipeline companies, and Illinois Department of Natural Resources. While the City was the client for the project, the developer agreed to pay a portion of the costs, so keeping the costs down on this project were vital to minimize the out-of-pocket costs for the City.

There were a number of unique aspects to the project. The project needed to cross underneath of I-55, and correspondence with IDOT was critical, as future improvements are planned in the area and there were specific requirements as to the length of casing pipe. This installation is facilitated by a 400 lineal foot bore and jack underneath of the interstate, with the jacking pits located beyond the proposed roadway pavement. Also, the Blanding's turtle, a state endangered turtle, exists on the project, and precautionary measures needed to be followed to protect the turtle.

The coordination with pipeline companies was necessary early on in the project to ensure that all of their requirements could be met and that licensing agreements would be obtained without complications. With two different wetlands located on site, measures were taken to minimize disruption of them and maintain their quality. Because of the early and constant correspondence with all necessary agencies early on in this project, these critical delays were avoided, and construction continues to progress on schedule and budget.



RESUMES



Howard J. Hamilton, PE, CFM, CPESC

President, QA/QC, and Senior Project Manager

Certified DBE-WBE-BEP

Mr. Hamilton is responsible for sewer studies and design, wastewater, water, hydraulics, hydrology, forensic engineering investigations and mechanical design/construction projects. As President of the firm, he also serves as overall Project Manager and Quality Assurance/Quality Control Manager for all large-scale projects. His professional experience includes a lifetime of work with wastewater treatment facilities and over twenty-five years as an engineer responsible for the planning, design, studies, and management of wastewater treatment and collection systems, water supply treatment, storage and distribution systems; and hydrology-hydraulics studies associated with floodplain/floodway construction, stormwater management, and roadway design. He has been a design engineer and project manager for projects of only a few thousand dollars, to over \$20 million. **He has served as the Village Engineer for Braidwood, Frankfort, Manhattan, Sheridan and Plainfield among others and as the Chief Subdivision Engineer, Plat Officer, and Stormwater & Floodplain Administrator for Will County.** As the appointed Engineer of each of these governmental bodies, Mr. Hamilton has served as the development review engineer and manager for many projects. Duties have included review of projects for conformance with municipal codes, state and federal regulations, and good engineering practice; and management of teams of construction observers to assure compliance with those plans in the field. In addition, he has been responsible for the presentation of projects to elected officials, residents, and press along with conducting public hearings, and responding to questions in open forum. He regularly represents our clients when specific concerns regarding water, wastewater, floodplain, or stormwater issues arise.

As a Village/City/County Engineer for most of his professional life, Mr. Hamilton has had the opportunity to review a wide variety of approaches toward site plan and subdivision design and is well versed in commonly used hydraulic and hydrologic models. He has authored many ordinances, resolutions, and development standards to assist growing communities in developing a quality infrastructure. In addition, because of his experience with public speaking both for clients, and as an officer in several organizations, Mr. Hamilton is uniquely qualified to represent governmental bodies in public settings.

Howard has often been called on to provide expert testimony on a multitude of engineering subjects regarding land use, safety codes and construction contracting.

PROFESSIONAL EXPERIENCE

Hamilton Consulting Engineers, Inc.	Summers 1971 – 1985 and 1988-Present
Daily and Associates, Inc.	1985 – 1988
Graduate Research Assistant, UIUC	1985 – 1986



EDUCATION

M.S.C.E. University of Illinois, Urbana, Hydraulics-Hydrology, 1987
B.S.C.E. University of Illinois, Urbana, Civil-Environmental, 1986

CERTIFICATION

- Professional Engineer:
 - Illinois #062-047406 - 1992
 - Indiana #11100497
 - Iowa #23904
 - Minnesota # 58271
 - Wisconsin #47824-6
 - Trinidad & Tobago #04-1024
- Documentation of Contract Quantities #19-16054
- Certified Professional in Erosion & Sediment Control
- Certified Floodplain Manager
- IDOT Erosion & Sediment Control I-II
- IEPA Class IV Wastewater Operator
- OSHA 30

CONTINUING EDUCATION: See final page of resume

PROFESSIONAL SOCIETIES-MEMBERSHIPS

- American Society of Civil Engineers
- American Water Works Association
- Illinois Association of Storm Water and Floodplain Managers
- Illinois Society of Professional Engineers
 - Joliet Chapter: President 1994-1996



SELECTED PROJECTS

Offload Interceptor Sewer - Phase I & II - City of Crest Hill - Principal in Charge - 6,500 LF interceptor sewer that provided capacity relief from the east sewer basin to the west sewer basin. Prepared plans and specifications, obtained IEPA and COE permits. Worked out specifications for construction practices to replace a portion of the sewer in a high quality wetland, and developed unique construction staging to keep the existing sewer system in place while constructing the new sewer. Included the design of a Parshall flume flow meter and SCADA operated weir gate.

Sewerage Plans - Village of Manhattan - Five separate facility plans and multiple sewerage service studies for a facility planning area of nearly an entire township.

CDBG Lift Station Generators - Phase I, II & III Services - Lockport Township - Principal in Charge - Upgrades to the existing four lift stations to add a standby generator and SCADA controls. Worked with Township personnel, provided bidding and construction engineering services. Prepared CDBG application which the project was awarded, and was the funding source for the project.

Wauponsee Interceptor - Phase I, II & III Services - Village of Manhattan - Principal in Charge - 16,000 ft. of 27" sanitary sewer, prepared the plans and specifications; responsible for bidding and securing pipeline and IEPA permits; and worked with Will County Forest Preserve to obtain easement.

Ridgewood Sewer, Watermain and Roadway Repairs - Phases I-II - Construction Completed 2008 / \$1,514,000, Phases II-V - Construction Completed 2010 / \$2,470,000, Phase VI - \$800,000 - Will County Health Department. Project Principal. Five-phase, 11-year project to provide clean water and sanitation to over 230 homes. Construction of approximately four miles of watermain and sanitary sewer across a 500+ acre neighborhood. The Ridgewood area is built on a hill with shallow depths (18" to 24") to bedrock. Working with steep slopes on alignments to minimize costly rock excavation was required to keep construction costs down. The challenge of working in a 100+ year old subdivision made the placing of new utilities difficult, and the skill of our construction personnel was critical in the adaptation of our plans to the actual underground conditions that were encountered. Three historic cemeteries lie between Ridgewood and Hickory Creek. Ground penetrating radar was utilized to assure that a route for drainage piping can be constructed without disturbing any graves. A future requirement for the area is to provide storm sewerage for the neighborhood to decrease localized flooding issues.

Clearview Sewer and Watermain Improvements - Phase I – III Services - Will County Health Department - Specific duties included senior project management, project development, loan and grant application coordination, design coordination, and construction management for three separate and concurrent projects to install sanitary sewers, storm sewers, watermains, roadway improvements, and individual service connections within an aging residential subdivision. Loans and grants were applied for from the IEPA Drinking Water Loan Program, the IEPA Water Pollution Control Loan Program and the HUD-CDBG program. The 5-year project involved many meetings with homeowners, elected officials from the City of Joliet, Joliet Township, Will County, and the Illinois House and Senate, along with coordination and permitting

- State Chairman Professional Engineers in Private Practice Division 1997-1999

- Water Environment Federation
- American Council of Engineering Companies of Illinois Environmental Committee, 2011- 2013

Community Organizations

- Chicago Metropolitan Agency for Planning (CMAP)
 - Regional Water Supply Planning Group 2008-2010
- The Conservation Foundation
 - Will County Advisory Committee 2004-2008
 - Strategic Planning Committee 2005-2006
- Joliet Region Chamber of Commerce & Industry
 - Chairman 2016
- National Great Rivers Research and Education Center
 - Illinois River Watch Network Citizen Scientist
- NIPC Water Supply Task Force 1999-2001
- Our Savior Lutheran Church
 - Congregation President 2005-2009
- Rotary International
 - Joliet President 2001- 2002
- Will Co. Center for Economic Development Strategic Planning Council 2006-2010 - Director 2016-Present, I80 Coalition
- Advanced Manufacturing/Food Processing/Energy Council 2012-Present
- Will County Storm Water Management Planning Committee
 - Chairman 1999-2001

Executive Director 2008-2010



through a multitude of agencies including several Will County, City of Joliet and Joliet Township departments, the Illinois Environmental Protection Agency (IEPA), the State of Illinois Department of Commerce and Community Affairs (Illinois 1st), and Illinois Department of Transportation (IDOT). This project is similar to Ridgewood, but smaller in scope and detail.

Sewer and Water Analysis - Lockport Township - Principal in Charge - Evaluated the Township's sewer and water system to determine improvements needed to add 400 homes to the existing system. Prepared a report with the findings and recommendations for infrastructure improvements.

Black Road Sanitary Sewer Improvements - Contracts II and III contract no. 1766-0411. - City of Joliet - Preparation of two, nearly 70 page Stormwater Pollution Prevention Plans for the construction of a sanitary forcemain along Black Road. SWPPP's were prepared to meet the requirements of the NPDES General Permit for Stormwater Discharge from Construction Site Activities. IEPA and US EPA guidelines and templates were used as a starting point for the SWPPP which covered all construction, material preparation, equipment, and restoration work for the project. The SWPPP and stormwater NOI permits were prepared and submitted for IEPA approval.

Surveying and Land Acquisition Services Upon Request - PSB 12-3 Item 23 - I-12-4057 - Illinois State Toll Highway Authority - Principal in Charge - This is a contract with the following components: preparation of plats and legals, engineering surveys, aerial surveys, **land acquisition assistance including Specialty Reports for site-specific analysis and development of recommendations for Phase II design modifications, which serviced to mitigate economic impacts**, negotiations, appraisals, other consulting and/or technical services to include surveying and land acquisition services. HCE worked on review of existing right-of-way documents system wide, Plat of Highways for the I-88 Corridor, Plat of Highways for the I-294 corridor, Plat of Highways for other miscellaneous corridors and the Elgin-O'Hare Survey Upon Request coordination.

IDOT Land Acquisition Services for District 1 – DOT19-LAC-D1-01 – Principal in Charge for active Land Acquisition Services, providing **Specialty Reports for site-specific analysis and development of recommendations for Phase II design modifications, which serviced to mitigate economic impacts**.

Traffic Permit Review - IDOT PTB 195 Item 11, Various/Various – Principal in Charge and Review Engineer, part of the team of consultant staff support working **in-house at IDOT District 1**, working on nearly 300 traffic permits since October 1, 2020.

Nicholson Street Sanitary Sewer Lining - City of Crest Hill - Principal in Charge - Prepared plans and specifications for cured in place pipe for 1,500 LF of 8" sanitary sewer, including manhole sealing and structural repairs. Project was funded by the CDBG program.

Si Johnson Avenue and Robinson Street Storm Sewer Replacement - Phase I, II and III Engineering Services - Village of Sheridan - Principal in Charge - Phase I Engineering Services for 1,200 LF of 12" and 18" storm sewer located in downtown Sheridan to replace existing failed storm sewer for 3 blocks on the main street which included data collection, preparation of base maps and mosaics, route surveys, drainage studies including Hydraulic Reports, cost estimates, and public involvement. Prepared plans, specifications which included coordination of utilities, summary of quantities, plan/profile sheets, project details, engineer's estimate, and traffic control. Obtained permits, bids, and managed the construction of the project. Worked with USDA for grant funding and IDOT for MFT funding. Prepared pay request and change orders.

Senior Center Sewer and Water Extension - Frankfort Township - Principal in Charge - 1,000 ft. of watermain and 1,000 ft. of sewer for the Township. Prepared the plans and specifications, and secured permits. Responsible for bidding and construction management.

Essington/Jefferson Interceptor - City of Joliet - Principal in Charge - Performed Phase II engineering design services for the installation 3,500 linear feet of 16" & 12" PVC sanitary gravity sewer (of which 525 linear feet by Bore & Jack method;



and 75 linear feet by Pipe Ramming). Approximately 800 linear feet of this pipe will be installed in the pavement of Jefferson Street (US Rte. 52). This design includes crossing three creeks and three box culverts not associated with the creek crossings, full-depth patching, and conversion of lift station to manhole, MOT, wetland and floodplain. The project goal was to replace an aging lift station with a gravity drained sanitary sewer.

Spring Street Sanitary Sewer Replacement - 0.5 mile Phase II Engineering Services - City of Joliet - Principal in Charge - Performed Phase II design services and Phase III engineering services for the replacement of 900 linear feet of sanitary sewer and the construction of 850 linear feet of new storm sewer, including work within IDOT ROW, full-depth patching, and water main adjustments, in an urbanized neighborhood of Joliet. The project goal was to replace an aging 30" sanitary sewer and separate stormwater flows from the sanitary system. Phases II, III

Goodwin Sewer & Water - Phase I - City of Braidwood - Establishing sanitary sewer along IL 113 and Coal City Road (both roadways under IDOT jurisdiction)

- a. Phase I Engineering – Review existing wastewater facility plan, calculate normal and peak wastewater flows, analyze capacity of and existing sanitary lift station, forcemain, and sanitary sewers.
- b. Field mapping, prepare preliminary design for upgrading an existing sanitary lift station, a 12 inch sanitary sewer along IL 113 and Coal City Road and a forcemain along IL 113.

Ridge North Sewer & Water Extension - Phase I thru V Engineering - Village of Minooka - Principal in Charge - Designed 11,000 feet of watermain, prepared the plans and specifications and secured IEPA and County Permits. Developed a summary of quantities, plan and profile for the design, construction details, and an engineer's estimate.

Drainage Impact Cases for Illinois Department of Transportation - Served as an expert witness for multiple drainage cases involving and representing IDOT.

Stormwater Management Plan - Will County - Stormwater Director As the first Director of the Will County Stormwater Management Planning Committee had the responsibility of first creating and organizing the operations of the office, and fulfilling the duties under the Will County Stormwater Control Ordinance as follows

- Supervise the enforcement of the ordinance;
- Supervise the development, revision and implementation of the Stormwater Management Plan for approval by the Committee and the County Board;
- Supervise the review of complex stormwater management permits for any community that requests such assistance;
- Notify all of the communities in the County, FEMA, IDNR-OWR, USACOE, the Illinois Environmental Protection Agency, and the United States Environmental Protection Agency of any amendments to the Plan or to this ordinance;
- Review variance requests for the Committee; and
- Assume the duties of the Administrator for the unincorporated County and non-certified Communities.
- Investigate complaints and work with stakeholders including homeowners, business owners, farmers, lawyers, judges, municipal-county-state and federal elected officials, NRCS, Will County Farm Bureau, Illinois Department of Natural Resources, USCOE, USFWS, Illinois Environmental Protection Agency, park districts, forest preserve districts, conservation groups, and builders' associations to arrive at mutually agreeable solutions. Even the single case that progresses to trial in Will County Circuit Court resulted in solution that was agreeable to all parties.

2010 DuPage County Stormwater Audit - DuPage County - Principal in Charge evaluated storm water permit submittals in accordance with DuPage County Storm Water and Floodplain Ordinance, and performed community audits to evaluate municipal compliance with DuPage County Storm Water Ordinance. Additionally, engineering services were provided for various wetlands projects located in DuPage County, including wetlands site design, hydraulic and hydrologic analysis, geotechnical review, and groundwater hydrology.



Jeffrey T. Snape PE, LEED AP

Senior Project Engineer

PROFESSIONAL EXPERIENCE

Mr. Snape has over 15 years of engineering experience, serving as a project manager and project engineer. Jeff started his career handling complex drainage and site designs for private clients and has brought that experience to serve the public. He is the lead engineer on Phase I and II drainage projects and has served as a project engineer on Phase I and II traffic studies, and roadway, water, sewer, and drainage projects. His clients include the Illinois State Toll and Highway Authority, the Illinois Department of Transportation, and numerous local municipalities and other public and private agencies. **Jeff has served as the Village Engineer for the Village of Sheridan in LaSalle County, Illinois since 2007.**

He has also prepared plans, specifications and estimates for roadway construction, reconstruction and preservation projects; maintenance of traffic and detour plans; and erosion control plans.

SELECTED PROJECTS

Sheridan Sanitary Sewer Lining, Sheridan, IL; Client: Village of Sheridan. Design Engineer – Phase I, II, III services. Assisted with the completion of IEPA Facility Plan, and loan and grant applications for IEPA, USDA, and DCEO funds. Assisted with CDBG application for 5,200 LF of sanitary sewer sliplining, televising and review to conduct cured in place lining.

Traffic Permit Review - IDOT PTB 195 Item 11, Various/Various – Review Engineer, part of the team of consultant staff support working **in-house at IDOT District 1**, working on nearly 300 traffic permits since October 1, 2020.

Offload Interceptor Sewer - Phase I & II - City of Crest Hill – Project Engineer - 6,500 LF interceptor sewer that provided capacity relief from the east sewer basin to the west sewer basin. Prepared plans and specifications, obtained IEPA and COE permits. Worked out specifications for construction practices to replace a portion of the sewer in a high quality wetland, and developed unique construction staging to keep the existing sewer system in place while constructing the new sewer. Included the design of a Parshall flume flow meter and SCADA operated weir gate.

Surveying and Land Acquisition Services Upon Request - PSB 12-3 Item 23 - I-12-4057 - Illinois State Toll Highway Authority – Project Engineer - This is a contract with the following components: preparation of plats and legals, engineering surveys, aerial surveys, **land acquisition assistance including Specialty Reports for site-specific analysis and development of recommendations for Phase II design modifications, which serviced to mitigate economic impacts**, negotiations, appraisals, other consulting and/or technical services to include surveying and land acquisition services. HCE worked on review of existing right-of-way documents system wide, Plat of Highways for the I-88 Corridor, Plat of Highways for the I-294 corridor, Plat of Highways for other miscellaneous corridors and the Elgin-O'Hare Survey Upon Request coordination.

IDOT Land Acquisition Services for District 1 – DOT19-LAC-D1-01 – Project Engineer for active Land Acquisition Services, providing **Specialty Reports for site-specific analysis and development of recommendations for Phase II design modifications, which serviced to mitigate economic impacts.**



EDUCATION

B.S.C.E. Valparaiso University, 2004

CERTIFICATIONS

- Professional Engineer:
IL - 062-061756 2009
- IDOT Documentation of
Contract Quantities 20-17783
- LEED-AP
- OSHA 30 in 2020

CONTINUING EDUCATION

- IAFSM – HEC-RAS Unsteady
State Seminar
- ACEC-IL / IDOT Traffic Signal
Seminar
- IDOT Highway Safety
Improvement Workshop
- IAFSM – HEC-RAS Unsteady
State Seminar
- Introduction to WinSLAMM –
Illinois Association for
Floodplain and Stormwater
Management
- ACEC-IL / IDOT Traffic Signal
Seminar
- IDOT Highway Safety
Improvement Workshop
- Lake County Stormwater
Management Commission
Seminar on Recycling, Reusing
and Managing Stormwater



Jeffrey T. Snape PE, LEED AP

Senior Project Engineer

Ridgewood Sewer, Watermain and Roadway Repairs - Will County Health Department. Project Engineer. Five-phase, 11-year project to provide clean water and sanitation to over 230 homes. Construction of approximately four miles of watermain and sanitary sewer across a 500+ acre neighborhood. . The Ridgewood area is built on a hill with shallow depths (18"to 24") to bedrock. Working with steep slopes on alignments to minimize costly rock excavation was required to keep construction costs down. The challenge of working in a 100+ year old subdivision made the placing of new utilities difficult, and the skill of our construction personnel was critical in the adaption of our plans to the actual underground conditions that were encountered. Three historic cemeteries lie between Ridgewood and Hickory Creek. Ground penetrating radar was utilized to assure that a route for drainage piping can be constructed without disturbing any graves. A future requirement for the area is to provide storm sewerage for the neighborhood to decrease localized flooding issues.

Sewer Televising, Cleaning, and Lining - Village of Sheridan. Resident Engineer. Systematic repairs, cleaning and lining of over 14,000 LF of sewer and rehabilitation or reconstruction of approximately 80 manholes. Project was federally funded.

Si Johnson Avenue and Robinson Street Storm Sewer Replacement - Phase I, II and III Engineering Services - Village of Sheridan – Project Engineer - Engineering Services for 1,200 LF of 12" and 18" storm sewer located in downtown Sheridan to replace existing failed storm sewer for 3 blocks on the main street which included data collection, preparation of base maps and mosaics, route surveys, drainage studies including Hydraulic Reports, cost estimates, and public involvement. Prepared plans, specifications which included coordination of utilities, summary of quantities, plan/profile sheets, project details, engineer's estimate, and traffic control. Obtained permits, bids, and managed the construction of the project. Worked with USDA for grant funding and IDOT for MFT funding. Prepared pay request and change orders.

Oak Valley Drainage Improvements - Phase I, II and III Engineering Services - Village of Homer Glen – Project Engineer - HCE was requested by Homer Glen to review drainage studies prepared by other engineering firms for some of the more extensive flooding concerns in their Village. In reviewing this work, and interviewing residents and township road crews we realized that some of the issues were over-designed, while other important issues were ignored or missed. In each of these cases we were able to make revisions to the recommended approaches to result in improvements that were less costly, more easily constructed, more easily maintained, more effective than the recommended projects.

One of these projects, Oak Valley, utilized topography and preliminary investigations conducted by prior engineering firms to determine that significant offsite tributary area existed that was not adequately accounted for in the drainage report. It was determined that installation of a bypass sewer to capture and route this runoff safely downstream to the development detention pond would be the primary solution. Easements were obtained from residents and Phase II construction plans and specifications were prepared to IDOT standards to make the project eligible for MFT funding. Significant resident coordination was needed to obtain easements and coordinate construction, including the relocation of a shed owned by a resident.

Review Engineering Services, Various Municipalities. Review Engineer. - Perform full site plan reviews for development projects. Included are reviews for conformance with city ordinances, city zoning codes, and city and county stormwater management ordinances. Tasks include site plan review of storm sewer, watermain and sanitary sewer, grading, soil erosion and sediment control, parking and setback analysis, design guidelines, review of cost estimates for municipal security, and review of storm water management and detention calculations. Selected clients include City of Crest Hill, IL, City of Plano, IL, City of Wilmington, IL and Village of Sheridan, IL.

Blodgett Rd at Grant Creek Drainage Study - PTB 158 Item 12, Various Survey Projects - P-91-247-11 - Illinois Department of Transportation - Project Engineer for the preparation of a Hydraulic Report, using HEC-RAS, that included scour analysis, and preparation of a Waterway Information Table up to the 500-yr event for a 10+ square



Jeffrey T. Snape PE, LEED AP

Senior Project Engineer

mile tributary area. Existing and proposed conditions were modelled and recommendations prepared for scour protection in the final report.

Maintenance Yard 14 Site Improvements – Design Upon Request - RR-16-9197 - Illinois Tollway – Design Engineer for development of plans and specifications for renovations to a Tollway M-Yard. Improvements included retaining wall replacement, reconstruction of an I-355 on-ramp, hydraulic modelling, enclosed drainage with offsite flow, HMA and PCC paving, and correction of significant drainage problems, including trench drain design. Included field assessments and bidding services.

New Avenue Drainage Study - PTB 158 Item 12, Various Survey Projects - P-91-247-11 - Illinois Department of Transportation - Roadway Engineer performing drainage studies to address flooding problems. All drainage features, IDOT, the Canadian National Railroad, and the adjacent CITGO refinery, were analyzed with a total tributary area was 1.4 square miles. Our firm and Jeff specifically were specifically selected by the IDOT Hydrology Department for our expertise in water resources and ability to effectively coordinate with multiple stakeholders.

East Kankakee River Drive, City of Wilmington, IL. Engineer – Preparation of a Storm Water Management Report for the widening of East Kankakee River Drive to meet the requirements of the Illinois Department of Transportation. Tasks included design of storm sewers, analysis of existing and proposed runoff values, and review of offsite storm water detention calculations provided by a nearby industrial development. Reviews and a redesign of offsite facilities were coordinated with the developer’s engineers to ensure proper storm water management.

Unnamed Tributary to Forked Creek / Waters Edge Drainage, Wilmington, IL; Client: City of Wilmington. Project Engineer – Analysis of flooding in a residential subdivision with on-stream detention in the floodplain. Included review of original permitting and drainage calculations from as early as 1995. Several design deficiencies were noted such as inadequate equalizer pipes, and incorrect reach routing in the original HEC-1 model. Project included remodeling of the Unnamed Tributary to Forked Creek, including 3+ square miles of tributary area, in HEC-HMS and HEC-RAS to determine possible solutions and their effect at other flooding problems downstream.

Tenerelli Subdivision Drainage, Big Rock, IL; Client: Village of Big Rock, Kane County. Project Engineer – Analyzed flooding concerns in a residential subdivision as part of a cost sharing project with the Village of Big Rock and Kane County. Drainage areas and stormwater runoff was determined for multiple storm events. Existing swales and culverts onsite and offsite were analyzed for capacity. A resident survey identifying areas of long-term ponding and flooding was analyzed to ensure that proposed solutions would solve the most severe flooding problems first and would meet resident approval as the project would possibly be funded by initiating an SSA. Several alternative designs were analyzed to mitigate the flooding and were compared based on their cost and effectiveness. The selected alternative was phased to enable the Village to spread costs over time while securing immediate relief. HCE worked with the Village to reach a scope and cost that would fit within the budget of the Village. The project study was ultimately used in securing a DCEO IKE Grant to fund the improvements.

Ellis Equestrian Center at Baker Woods/Upland Design, LTD - Phase I, II & III Engineering Services for Kendall County Forest Preserve. Design of 2.5 miles of new trails, including a pedestrian bridge over the Aux Sable Creek, and a permeable paver parking lot for a public park and equestrian center. Services included developing a site plan to work within existing buildings/facilities, floodplain, floodway and wetlands on site. HEC-RAS modelling was performed for the bridge for permitting through the Army Corps of Engineers, County, and Illinois Department of Natural Resources Office of Water Resources.

Arroyo Trails Project - Village of Channahon. Phase II design of an approximately one-mile trail through a wooded ravine with floodplain and wetlands. Prepared a flood study for IDNR and ACOE permitting for floodplain and wetland impacts and mitigation. Included analysis and design of seven (7) bridge crossings and two (2) culverts.

IL47 over Virgil Ditch - PTB 158 ITEM 13 - Job No. D-91-240-11 - Illinois Department of Transportation - Roadway Engineer for this bridge replacement and roadway reconstruction project. Prepared plans, specifications and



Jeffrey T. Snape PE, LEED AP

Senior Project Engineer

estimates for maintenance of traffic, temporary traffic signal and street lighting. The presence of a three-leg intersection in the project limits and a significant increase in the proposed roadway profile necessitated unique solutions in traffic management and project staging during construction.

Intermittent Pavement Repairs – Design Upon Request - RR-16-9197 - Illinois State Toll Highway Authority – Project Engineer for Phase I pavement assessments and Phase II contract plan preparation for four pavement repair contracts to I-294, I-88, IL 390, and I-90. Total construction contracts in excess of \$10.5 million during 2019 and 2020. Included field assessments, site-specific MOT plans, and bidding services.

South Hale Street – City of Plano – Project Engineer – Provided phase II engineering services for the preparation of contract plans, specifications and estimates of 0.25 miles of roadway reconstruction and overlay. This "IKE" funded project is to help reduce flooding on an urban collector. The project is designed in conformance with IDOT Bureau of Local Roads Manual, Drainage Manual, etc. The project consists of reconstruction of a two-lane rural roadway with a three-lane urban roadway with enclosed drainage. Phase II plans include MOT super-elevated roadway, 100-year storm design, floodplain, floodway, utility relocation and temporary construction easements.

Schweitzer Road - CenterPoint Properties - Roadway Engineer for the preparation of plans, specifications and estimates for a complete 1.5 mile roadway reconstruction. Prepared design documents for storm sewer and drainage designs, and erosion and sediment control. Project scope also included lane additions, pavement design, and maintenance of traffic.

Simmons Park, Aurora, IL; Client: Upland Design, Ltd. Design Engineer – Consultant services for the renovation of an existing public park. Services included sanitary sewer and watermain extensions, both public and private to service a new washroom. Scope also included development of a Stormwater Management Report, including an analysis of an existing stormwater detention system, and development of proposed stormwater detention improvements, and Best Management Practices, including a permeable pavement parking lot and rain gardens. REHCE reviewed and developed grading, utility, and soil erosion and sediment control plans. The design included a bike path that circled the top of the stormwater detention facility. Extensive communication with the local municipality and other professionals was an integral part of the project.

Blackberry Farm, Aurora, IL; Client: Jack Rouse and Associates / Upland Design, Ltd. Design Engineer – Consultant services for the renovation and redevelopment of a 50-acre amusement park/historic village/pioneer farm. Services included watermain and sanitary sewer extensions for a proposed washroom and a renovated washroom. Scope also included surveying, analysis of floodplain and floodway, wetland analysis, pavement and green space restoration, storm sewer, and electrical design and plans. Project components included a new restroom, restroom expansion, a boat dock located in the Blackberry Creek floodway, and various other additions to the park. Permitting and utility connections were coordinated with IDNR, ACOE, City of Aurora, ComEd, and Fox Metro Water Reclamation District.

Cedar Village; Manhattan Township / New Lenox, IL; Client: NMS Development Co., Inc. Provided consultant services for the development of a single lot commercial site in Unincorporated Will County. Services included review of Annexation Agreements, preparation of parcel rezoning applications and attendance at zoning hearings, and preparation of civil site engineering plans and estimates. The design included parking facilities, lot grading, and stormwater detention sizing and review of floodplain maps to meet county and city ordinances. A unique challenge was determining the sizing and location for a septic field to service the facility, and



PROFESSIONAL EXPERIENCE

Mr. Koehler's expertise includes Supervision and Daily Operation of Survey Staff; Cost Estimates and Bidding of Projects; Maintaining Client Relationships; Preparation of A.L.T.A., Illinois Land Survey Standard Boundary's, Topographic, Condominium and Mortgage Surveys; Preparation of Plats of Surveys for Subdivisions, Easements, Dedications, Vacations and Route Surveys; and GPS Control, and GIS Studies.

Hamilton Consulting Engineers, Inc. 2010 – present

SELECTED PROJECTS

Surveying and Land Acquisition Services Upon Request - PSB 12-3 Item 23 - I-12-4057 - Illinois State Toll Highway Authority - Professional Land Surveyor in Charge This contract involved the following components: Preparation of Plats and Legals for various easements and composition drawings for Tollway ROWs.

- Worked on I-88 thru DeKalb, Ogle, Lee, and Whiteside Counties.
- Prepared easement plats for I-294 and I-355.
- Participated in corridor studies for the extension of I-355 thru Lake County and the proposed widening of I-294 from 95th St. to Devon Avenue.

Various Survey Projects for NPDES Compliance- Active: PTB 193 Item 10, Closed: PTB 158 Item 12 and PTB 147 Item 13 - Illinois Department of Transportation - Professional Land Surveyor in Charge in charge of 32 work orders which include route and stream surveys; mapping of existing and proposed centerline alignments and right-of-way monuments; research of boundary corners, easements, and supporting calculations along state routes for preparation of cross section and alignment data for hydraulic and hydrologic modeling. The project also includes work-order-based outfall mapping along state routes to create a GIS-based system for District 1.

Illinois Route 53 Right-of-Way Retracement and Topographic - CDBG Disaster Recovery Grant Application - Illinois Department of Transportation - Professional Land Surveyor in Charge Lead Surveyor of 45 acres of land adjoining Route 53, section line analysis, retracement, and review of 119 pages of IDOT plans and plats relating to Route 53 and old Route 66.

A.L.T.A. Surveys - Illinois Department of Transportation - Professional Land Surveyor in Charge Surveys on 41 commercial parcels for sale of properties from a real estate group to a commercial-industrial developer. The sale needed to be completed in a timely manner to facilitate the sale of the parcels.

Surveying Services Upon Request - Systemwide (Sub to Quigg) - PSB 09-01 Item 31 - RR-09-5596 - Illinois State Toll Highway Authority - Professional Land Surveyor in Charge Review surveyor for 170 plats of acquisition for the interchange of I-57 and I-294. Reviews Included:

- Plat Compliance to ISTHA standards, and legal description reviews
- 74 Parcels for intergovernmental agreements between ISTHA, the Village of Posen, and IDOT.



EDUCATION

Wright Junior College,
Chicago, Illinois

College of DuPage, Glen
Ellyn, Illinois

PROFESSIONAL SOCIETIES- MEMBERSHIPS

- IL Professional Land Surveyor #035-002717 1984
- IL Professional Land Surveyors Association
- Pat Patterson Surveyor of the Year Award 2008 by I.P.L.S.A.
- National Society of Professional Land Surveyors
- Surveyors Historical Society
- OSHA 30

CONTINUING EDUCATION

- OSHA 30 8/2019
- 2019 IPLSA Annual Conference 2/2019
- 2018 IPLSA Annual Conference 2/18
- 2017 IPLSA Annual Conference 2/17



PROFESSIONAL EXPERIENCE

Hamilton Consulting Engineers, Inc. since 2002
Law Engineering and Environmental Services (MACTEC) 2000-2002

SELECTED PROJECTS

GIS Database Mapping - Client: City of Joliet - Addition to GIS Database - GIS mapping for the City of Joliet in the Ridgewood area and the downtown area of Joliet from the Des Plaines River to the Canadian National Tracks, from Columbia Street on the north side to Patterson Road on the south side. This is a multi-phase ongoing project. The services performed include: collection of survey grade information on sanitary sewer and water main structures, provide marking services for water main facilities, provide the line work to link piping to connect the structures together, checking attributes for each segment which have to be set and verified, checking mapped data against current atlas, and insertion, into the City of Joliet's GIS system.

Mr. Stroh's responsibilities include project management and providing all GIS Services required. Mr. Stroh has performed tasks at all levels of the project including field work of watermain locating and GPS surveying.



EDUCATION

A.A.S. Computer Aided Design and Drafting, Joliet Junior College, 2001
Aviation Maintenance Studies, Southern Illinois University, 1985

CERTIFICATION

■ OSHA 30

I-12-4057, Surveying and Land Acquisition Services Upon Request- Systemwide Task Orders 1-3 - Client: Illinois State Toll Highway Authority - PSB 12-3 Item 23 – Tasks for David as field crew, CAD and GIS specialist were preparation of plats of highway for I-88 through portions of DeKalb, Ogle, Lee and Whiteside counties. Mr. Stroh was responsible for all CADD work and GIS database work for insertion into ISTHA database network. After compiling the property boundary data into an ISTHA GIS database, HCE **incorporated a matrix of parcel-specific information** collected by our engineering team.

Ridgewood Subdivision - GIS - Client: City of Joliet - Phase I GIS Service - GIS data base services upon request a current on going project. Mr. Stroh is responsible for insertion of As-Built data into the City of Joliet's GIS data base. The tasks have included insertion of sanitary sewer and storm sewer information along with watermain and B-Box locations and elevations.

Various Survey Projects, (NPDES Compliance) for IDOT – PTB 193 Item 10 is active with five work orders assigned, PTB 158 Item 12 closed in 2018 with 13 work orders and PTB 147 Item 13 closed in 2011 with 14 work orders assigned. David is field Crew, CAD and GIS specialist for these work-order-based contracts which include route and stream surveys; mapping of existing and proposed centerline alignments and right-of-way monuments; research of boundary corners, easements, and supporting calculations along state routes for preparation of cross section and alignment data for hydraulic and hydrologic modeling. The project also includes work-order-based outfall mapping along state routes to create a GIS-based system for District 1.

RR-09-5596, Surveying Services Upon Request- Systemwide (Sub to Quigg) - Client: Illinois State Toll Highway Authority - PSB 09-01 Item 31 - Topographic and mapping survey of two maintenance yards and 170 plats of acquisition for proposed new interchange of I57 and I294. This involved topographic surveys to be included into a GIS Data Base. This also included development of a new ISO 3115-05 "survey check list–topo and mapping" which includes all the requirements for compiling a GIS dbase deliverable. QA/QC by REHCE.



THE HAMILTON CONSULTING ENGINEERS, INC DIFFERENCE

Hamilton Consulting Engineers, Inc. (HCE) is a Certified Disadvantaged Business Enterprise (DBE) with the Illinois UCP, and a Woman Business Enterprise (WBE) with the City of Chicago and State of Illinois CMS who has been offering full-service civil engineering and related professional services to clients in Illinois since 1955. This longevity is due to our commitment to provide *innovative, cost-effective and sustainable engineering and surveying solutions based on trust and exceptional service.*

CERTIFICATION

Certified DBE and WBE, meeting the Diversity requirements for the Illinois Department of Transportation, Metra, CTA, City of Chicago, Cook County, the Illinois State Toll Highway Authority and contracts requiring certification in the CMS Business Enterprise Program (BEP).

OUR SERVICES

Civil Engineering Services

- Construction Management
- Transportation Design and Planning
- Design and Planning for:
 - Wastewater Collection
 - Wastewater Treatment
 - Water Supply
 - Water Treatment
 - Storm Water Management
- Surveying
- CAD/GIS
- Site Development incl. Permitting

Other Services

- Diversity and Workforce Program Management
- Environmental Planning and Management
- Forensic Engineering
- Governmental Services
- Right-of-Way Acquisition



PREQUALIFICATIONS

Prequalified with Illinois Department of Transportation in:

- | | |
|---|--|
| <ul style="list-style-type: none">▪ Highways<ul style="list-style-type: none">○ Roads and Streets▪ Hydraulic Reports - Waterways<ul style="list-style-type: none">○ Complex○ Typical▪ Location Design Studies<ul style="list-style-type: none">○ Rehabilitation | <ul style="list-style-type: none">▪ Special Services<ul style="list-style-type: none">○ Construction Inspection○ Sanitary○ Surveying▪ Special Studies<ul style="list-style-type: none">○ Location Drainage○ Safety○ Traffic Studies |
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Prequalified with Capital Development Board in: Civil Engineering, Survey

OUR CLIENTS

- | | |
|--|---|
| <ul style="list-style-type: none">▪ Governmental Agencies▪ Public - Private Partnerships▪ Corporations, Construction Firms▪ Individuals | <ul style="list-style-type: none">▪ Utility Companies▪ Attorneys▪ Private Industry▪ Institutional and Higher Education |
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THE HAMILTON CONSULTING ENGINEERS, INC DIFFERENCE

Our firm has been a family-owned company providing services to governmental agencies and private entities since 1955. We understand the value of personalized service and dedication. Our commitment, affirmed simply in our mission statement, is to provide ***innovative, cost-effective and sustainable engineering and surveying solutions based on trust and exceptional service.***



We are a registered Small Business and are both a Disadvantaged Business Enterprise (DBE) certified with the Illinois UCP and a Women-owned Business Enterprise (WBE) certified with the City of Chicago and State of Illinois Business Enterprise Program.

The HCE team brings several advantages to any project. First, **we “own” our projects as our clients own them.** Whether we are working on a short storm sewer or as staff support at a Governmental Agency, we treat all projects as if they were our own. We are careful to evaluate the costs and impacts associated with each project and look at all the possible alternatives to ensure our partner is provided with the best value for their needs. Additionally, our dedicated staff cares about the project and goes above and beyond by providing more than just a service. We work with the owner through the entire process to ensure that together the end result is a custom-fit project to meet everyone’s needs.

Secondly, **our team specializes in working for and with governmental agencies.** Because of our long history and focus on assisting public entities, we understand the necessary steps and how to navigate the public processes. We also recognize the importance of communication not only between ourselves and the client, but with all stakeholders. We pride ourselves in having open communication and clear records which results in satisfied clients and successful projects.

Our extraordinary professional staff has decades of experience in consulting with local, state and federal agencies on stormwater, hydrology, wastewater treatment and conveyance, water supply, transportation, and surveying. A few examples of this experience include:

- Our President served as the Will County Chief Subdivision Engineer/Stormwater Administrator and Stormwater Director and another HCE staff member held various positions at the Land Use Department during his 15 years of work for the County of Will.
- Several staff members, including our Chairman and CEO, were stationed as high-level in-house staff support at the Illinois State Toll Highway Authority for over six years.
- **The team has successfully completed permitting processes with local, state and federal agencies including site development, road access and natural resource permits such as those related to stormwater, floodplain and wetlands with the Army Corp, IDNR and IEPA.**

A third distinctive quality of the firm is that **virtually all the professional staff at HCE are housed in Will County.** This is designed to promote team collaboration and foster partnerships between all personnel. As a result, work for the client flows smoothly and quickly. Having staff at one locale also allows us to be efficient and results in an overall lower cost to our clients. It is these differences that enable us to best serve our clients and affirm our mission statement to provide innovative, cost-effective and sustainable solutions based on trust and exceptional service.

Through our work over the last 65 years, our staff has built strong and lasting relationships in the region. As further evidence of our commitment to the area, we have employees actively involved in organizations ranging from the Will County Center for Economic Development (CED) and Will County Governmental League to local Chambers and societies such as APWA, ACEC, ISPE, ASCE, IPLSA, and the American Contract Compliance Association (ACCA). We pride ourselves in our relationships and our strong Will County ties.