



Chamlin & Associates
ENGINEERS • SURVEYORS • PLANNERS

CITY OF WASHINGTON, ILLINOIS

**THE ACQUISITION OF ENGINEERING SERVICES FOR
THE COMPLETION OF A 3RD PARTY ALTERNATIVE ANALYSIS FOR
FARM CREEK TRUNK SEWER
REQUEST FOR QUALIFICATIONS SUBMITTAL**

SUBMITTED BY:

Chamlin & Associates, Inc.
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FEIN #36-2593961

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August 25, 2021

City of Washington
301 Walnut Street
Washington, IL 61571

ATTENTION: Selection Committee

SUBJECT: Request for Qualifications
The completion of a 3rd party alternative analysis
for Farm Creek Trunk Sewer

Dear Committee,

We would like to thank you for the opportunity to submit our professional qualifications for consulting engineering services for the proposed completion of a 3rd party alternative analysis for Farm Creek Trunk Sewer. We are familiar with the area and the type of services required to successfully complete the project.

Chamlin & Associates, Inc. represents approximately 50 communities acting as city engineer or prime consultant to their staff city engineer providing design, construction engineering, and surveying services related to numerous sanitary gravity sewer projects. We have maintained this relationship with many of our communities for nearly our entire 70 year history. This is a testament to the consistency of our professional services that we provide.

Our firm consists of a staff of 60 employees made up of professional engineers, architects, project managers, land surveyors, flood plain managers and support staff consisting of field surveyors, engineering aides, CADD operators and administrative support staff. Between our offices in Peru, Ottawa, Morris and Mendota, we consist almost entirely of long-term employees with an average professional experience level of greater than 15 years.

We feel that our successful work history as well as our location make us uniquely qualified to satisfy all the project needs and provide an excellent engineering analysis of your Farm Creek Sewer Alternatives.

Sincerely,

CHAMLIN & ASSOCIATES, INC.

Michael W. Perry

Michael W. Perry, P.E.

MWP:eak
cc: File
Enclosure

Qualifications of Firm

Project Understanding

Chamlin & Associates understands the City of Washington is looking for professional engineering services with the goal to analyze sanitary sewer alignment alternatives. It is our understanding that the engineering process will start in September 2021 with 3-4 months to perform an analysis with a presentation to be made to the City Council in early 2022. Chamlin understands the scope shall include identifying that the alignments meet professional standards, their potential for flooding, accessibility both during and after construction, environmental impacts, easements required, and construction cost. It is understood that multiple meetings and reports may be required with City staff and property owners as well as provide all deliverable products to the City of Washington staff for approval and dissemination.

Chamlin & Associates acknowledges that we have received electronic copies of the Preliminary Engineering Study for the Farm Creek Sewer, the presentation made by Aptim on behalf of the property owners, and the presentation given by Strand and understands the City of Washington requires professional engineering services for the completely transparent 3rd party analysis of at least five previously recognized sanitary sewer alternatives.

Overall Gravity Sewer Design Experience

Pages 4-9 contain a small sampling of major sanitary sewer design and construction oversight projects that our staff engineers have completed. Suffice it to say our firm has designed many miles of sanitary sewers for our existing municipal clients including the examples shown. Additional projects could be provided for Princeton, Oglesby, Peru (many previous sewer separation projects), Morris (many previous sewer separation projects), Coal City, and many others. In all cases our preliminary engineering tasks include determining acceptable alternatives and providing a detailed alternative analysis that determines the most cost effective approach. Chamlin & Associates has provided master planning efforts for sanitary sewer infrastructure for most of our long-term municipal clients including Streator, Peru, Morris, Coal City, Diamond and Spring Valley. This work involves assessing the optimum route for major sewer collectors, considering the most cost-effective location based on natural geography, construction hindrances and feasibility to serve the communities ultimate planning needs. These master plans are available upon request.

Success & Experience of Previous Projects

Kent Street – City of Streator

The City of Streator, as with many established communities, has numerous areas that include a combined sewer system. The storm waters and sanitary sewer of the nearly 350-acre Kent Street Basin were conveyed by a 90-year-old brick arch trunk sewer that ran from the west end of town to the easterly corporate limits. To separate the combined storm and sanitary flows and replace the aging sewer system, the City teamed up with Chamlin & Associates to further study the issues and engineer a solution. The goal was to eliminate several combined sewage overflows and lessen the burden on the wastewater treatment plant by eliminating the storm water that was being conveyed to the plant via the combined sewer system. The completed project would also eliminate the frequent sewer collapses, basement flooding and other serious maintenance issues. In total, 18 combined sewage overflows were eliminated.

The challenge was to design and construct a large diameter interceptor sewer and sanitary sewer main, including new branches of each extending both north and south into residential and business areas, while working closely alongside and maintaining the "live" aging brick arch sewer. In 2009 Chamlin completed the multi-year design and along with the City engineering staff overseen the \$14 million dollar construction project. The complex project included several large diameter bores under multiple railways, crossing of a state highway and around the clock bypass pumping. To add to the complexity, many areas of unsuitable soils were encountered that required extensive trench shoring along with 24-hour ground water pumping utilizing well points which were installed along the proposed sewer alignment.

Although countless daily challenges were encountered, the project was successfully completed nearly one year ahead of schedule and within one percent of the original project bid. The project included 44,000 feet of new sanitary and storm sewers, 12,000 feet of new concrete curb and gutters, 90,000 square feet of new sidewalks and 8,000 tons of asphalt for roadway restoration. The newly constructed infrastructure has greatly reduced the treatment burden at the wastewater treatment plant as well as other immediate improvements within the entire Kent Street Basin.



Project Summary

- 44,000 feet of new sanitary & storm sewer
- 534 manhole and inlet structures
- Sewer sizes ranging from 4" to 84"
- 12,000 feet of new concrete curb & gutter
- 90,000 square feet of new sidewalks
- 8,000 tons of asphalt for newly restored roadways
- 18 combined sewage overflows (CSO's) eliminated
- Final construction cost \$13,695,136.00



Coal Run Creek Design – City of Streator

After successfully completing the design and \$14 million dollar construction of the Kent Street Interceptor project, the City of Streator once again chose Chamlin to provide engineering services for the Coal Run Creek separation project. The project encompassed an area exceeding 1,000 acres and covered nearly the entire southern half of the city.

The sewer trunk line paralleled Coal Run Creek which allowed for a smaller diameter sewer (30”) than the previous Kent Street project due to the availability of multiple outfall locations. The project was designed, permitted and submitted to the City ahead of schedule and within the design budget set forth prior to commencement of design services.

The project construction will be completed in multiple phases with an overall estimated cost of \$19,300,000.



Peru Area 1 Phase 5 Combined Sewer Separation

Construction of approximately 3,700 feet of storm sewer ranging in size from 10" to 30"; approximately 3,400 feet of water main ranging in size from 4" to 10". Project also included HMA resurfacing of all impacted streets within the project limits and replacement of curbs and sidewalks. Project included 800 feet of sanitary sewer replacement and the decommissioning of the Rock St. lift station.



Peru Area 1 Phase 6 Combined Sewer Separation

Construction of approximately 3,800 feet of storm sewer ranging in size from 12" to 24"; approximately 1,500 feet of water main ranging in size from 4" to 14". Project also included HMA resurfacing of all impacted streets within the project limits and replacement of curbs and sidewalks. This project was the final phase of the Area 1 Stormwater collection system.



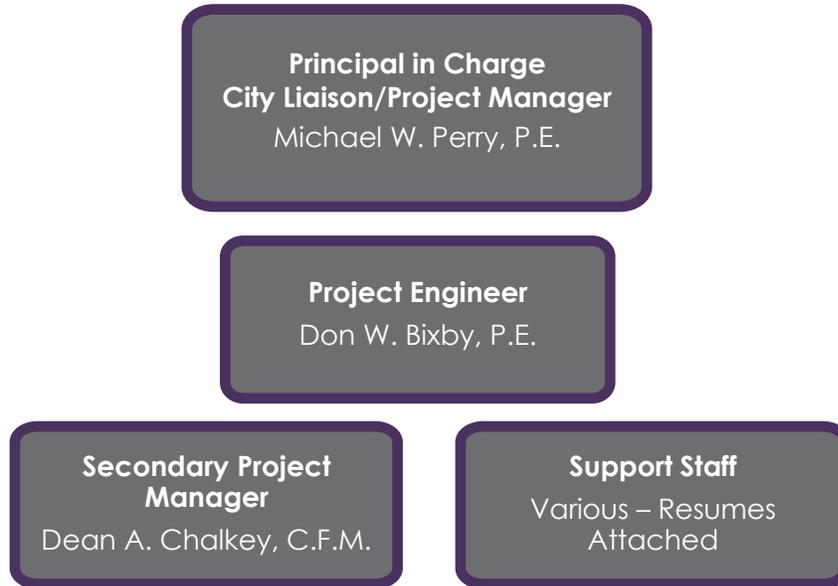
Morris CSO LTCP Phase 4

The purpose of the LTCP Phase 4 was to reconstruct an aging sewer system, removing the combination sewer sections along the way. Additionally failing storm sewers were repaired and watermain were upgraded in the areas of work. Pipe sizes for the 3,640 feet of sanitary sewer ranged from 30" down to 15", and the 3,630 feet of watermain was 8" everywhere. Roadways were patched and resurfaced for the length of each project. Combined the projects came in under budget and on time.



Project Management & Key Personnel

Our Peru office will be primarily responsible for the work on this project. The following is an organizational chart of our key personnel that will be assigned to this project.



Key Personnel experience and project roles are described below. Detailed resumes may be found in the Select Resumes section.

Michael W. Perry, P.E. – Principal in Charge

Mike will be the Principal in Charge, project manager and primary point of contact for the City on this Project. He will be lead on this project utilizing Don Bixby as needed on a day-to-day basis. He manages the Peru Office. He has 36 years of hands-on experience and has extensive knowledge and background relative to municipal infrastructure improvements.

Don W. Bixby, P.E. – Project Engineer

Don will serve as Project Engineer and provide assistance to Mike Perry on a day-to-day basis as. He has 42 years of experience in municipal design and project management. He will be responsible for the day-to-day progress of this project and will oversee all other components of the project.

Dean A. Chalkey, C.F.M. – Secondary Project Manager

Dean will serve as a secondary project manager for this project. He has nearly 30 years' experience in the civil engineering field. He acted as our project manager on two of our largest sewer projects, both with construction cost in excess of \$13 million. Dean has extensive experience working with our numerous municipal clients on a large variety of projects.



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Peru, IL 61354
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Michael W. Perry, P.E. **Director of Peru Operations** **& Consulting Engineer**

Professional Summary



Mr. Perry serves as Director of Peru Operations for Chamlin & Associates. He has been involved as a Process/Project Engineer on a variety of chemical/water processing projects. These have included hydraulic analysis, problem identification and resolution, preparation and execution of project schedules, cost analysis of project alternatives and phased approaches to achieving those plans. Environmental work has included: Spill Containment, Control and Countermeasure (SPCC) Plans, Storm Water Pollution Prevention Plans (SWPPP), Smokestack Discharge Evaluation, Effluent Discharge Monitoring, and Phase I Environmental Assessments.

Areas of Specialty

- General Civil Engineering and Municipal Engineering
- Water Treatment Plant Design
- Wastewater Treatment Plant Design
- Hydraulic Analysis, Water Distribution System Design
- Sanitary Sewer Evaluation and Design

Email:
mikeperry@chamlin.com

Education
B.S. in Chemical Engineering
Texas A & M-1985

Registrations and
Certifications
Professional Engineer/Illinois
062-054006 (2000)

Employment History
1996-Present
Chamlin & Associates, Inc.

1992-1996
Unicom, Inc.

1989-1992
Staley Manufacturing

1985-1989
Dow Chemical

Affiliations
National Society of Prof. Engineers
Illinois Society of Prof. Engineers
American Institute of
Chemical Engineers



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Don W. Bixby, P.E.
Project Engineer

Professional Summary



Mr. Bixby has served as Project Engineer for a wide variety of water and wastewater projects. These have included wastewater treatment plant design and upgrades, water treatment plant upgrades, water tower designs, lagoon improvements, and wastewater pilot studies. He also designed storm sewer systems along with sanitary sewers, lift stations, and water distribution systems, both on large and small scales, along with commercial on-site systems. Mr. Bixby is also a certified operator and served as superintendent for a large industrial wastewater treatment plant for several years.

Areas of Specialty

- General Civil / Sanitary Engineering
- Water and Wastewater Treatment Plant Improvement/Expansion Design
- Sanitary Sewer Evaluation, Design
- Storm Sewer Design
- Water Distribution System Design
- Operations Assistance, Training, Troubleshooting and Guidance

Email: donb@chamlin.com

Education

B.S. in Civil Engineering,
Environmental Major
Purdue University-1980

Registrations and Certifications

Professional Engineer/Illinois
062-064568
(Previously licensed in Indiana)

Wastewater Treatment Works
Operator, Class I
(Group 1, 2, 3 & 4 Wastewater
Treatment Works)

Employment History

2012-Present
Chamlin & Associates, Inc.

2002-2012
Territorial Engineering, LLC

1988-1991
Wenck Associates, Inc.

1982-1988
A.E. Staley Mfg. Co.

1980-1982
City of Lafayette, IN

1976-1979
Jones & Henry Engineers

Affiliations

Water Environment Federation
Illinois Water Environment Assoc.
Illinois Association of
Water Pollution Control Operators



218 W. Lafayette Street
Ottawa, IL 61350
Phone: (815) 434-7225
Fax: (815) 434-2831

Dean Chalkey, C.F.M. Director of Ottawa Operations & Senior Project Manager

Professional Summary



Mr. Chalkey serves as Director of Ottawa Operations of Chamlin & Associates, Inc. He has been involved as a Project Manager for a wide variety of civil engineering and transportation projects. His related experience includes involvement in site development, sanitary and storm sewer projects, as well as local street and roadway projects. Mr. Chalkey has also been involved on project teams for numerous IDOT transportation projects as well as municipal projects acting as both project and construction manager. Mr. Chalkey is a certified floodplain manager and holds certifications required for construction resident engineer/inspector. Mr. Chalkey has also implemented a remote drone program and holds an FAA certification.

Areas of Specialty

- Project Management
- Motor Fuel Tax
- Site Permitting
- Floodplain and Storm Water Management
- Project Estimating
- Construction Management
- General Civil Engineering Services
- Drone Surveys

Email: deanc@chamlin.com

Education

A.A.S. in Construction
Engineering Technology
Morrison Institute
of Technology-1993

Registrations and Certifications

Certified Floodplain
Manager (CFM)
No. IL-13-00644
FAA Certified Drone Pilot
No. 3927351

Employment History 2006-Present Chamlin & Associates, Inc.

1996-2006
McClure Engineering

1993-1996
Farnsworth & Wylie, P.C.

Affiliations

Illinois Association for
Floodplain and Stormwater
Management (IAFSM)



221 W. Washington St.
Morris, IL 60450
Phone: (815) 942-1402
Fax: (815) 942-1471

Casey J. McCollom, P.E. Project Engineer

Professional Summary



Mr. McCollom has experience on a variety of civil engineering improvement projects including the design of airport improvements, several streetscapes, municipal transportation, water distribution, sanitary collection, and storm sewer projects, and private commercial/residential developments throughout the greater Chicagoland area. He has extensive experience in coordination with the Illinois Department of

Transportation for Federal and State funded projects as well as permitting of projects through various state agencies. His airport design experience includes airport taxiway design, NAVAID design, airport landside improvements, and general airport maintenance project design. Additional transportation infrastructure project experience includes intersection and interchange design studies, urban roadway reconstruction and new roadway construction design and management.

His duties include contract negotiations, project management, permitting, zoning and City Council/Village Board hearings, civil engineering design, quality assurance and control, construction inspection, resident engineer services, and cost analysis of various municipal projects.

Areas of Specialty

- General Civil Engineering
- Transportation Design
- Airport Design
- Municipal Engineering
- Commercial Site Design
- Industrial Site Design

Email: caseym@chamlin.com

Education

B.S. in Civil Engineering
Bradley University-2001

Registrations and Certifications

Professional Engineer/Illinois
062-059173 (2006)

Employment History

2017-Present
Chamlin & Associates, Inc.

1999-2017

Christopher B. Burke
Engineering, Ltd.

Specialty Training

IDOT Certifications:
Culvert Hydraulics
Documentation
Bridge Construction Inspection

IDOT QC/QA Certifications:
Aggregate Technician
PCC Level 1
HMA Level 1
Bituminous Concrete Density Tester

Memberships

American Public Works Association



Chamlin & Associates
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Morris, IL 60450
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Timothy R. Hejny, P.E. Project Engineer

Professional Summary



Mr. Hejny has experience on a variety of civil engineering improvement projects including the design of private commercial/residential developments, storm water management facilities, and feasibility studies throughout the greater Chicagoland area. He has extensive experience in storm water management,

hydrologic and hydraulic analyses, municipal permitting, and flood plain permitting/mitigation (LOMR/CLOMR). His duties include contract negotiations, project management, permitting, zoning and City Council/Village Board hearings, civil engineering design, quality assurance and control, construction assistance, and cost analysis of various land development projects.

Areas of Specialty

- General Civil Engineering
- Storm Water Management
- Residential Subdivision Design
- Commercial Site Design
- Industrial Site Design
- Hydrology/Hydraulics

Email:
timhejny@chamlin.com

Education

B.S. in Civil Engineering
Southern Illinois University
at Carbondale-2001

Registrations and Certifications

Professional Engineer/Illinois
062-059133 (2006)

Employment History

2014-Present
Chamlin & Associates, Inc.

2009-2014
C. M. Lavoie & Associates, Inc.

2008-2009
Larson Engineering

2001-2008
Ruettiger, Tonelli & Associates, Inc.

Specialty Training

Hydrologic & Hydraulic Modeling
Land Development



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Michael S. Richetta, P.L.S. Land Surveyor / Project Manager

Professional Summary



Mr. Richetta has been involved as a Project Manager for a wide variety of civil engineering and transportation projects. His experience includes involvement in site development, sanitary and storm sewer projects, local street and roadway projects, and subdivision development. As a land surveyor, Mr. Richetta

has been involved in performing all types of field survey work and survey plat preparation.

Areas of Specialty

- Project Management
- Motor Fuel Tax
- Site Permitting
- Project Estimating
- Construction Management
- General Civil Engineering Services
- Land Surveying Services

Email: miker@chamlin.com

Education

A.A.S. in Engineering
Design Technology
Illinois Valley Community College

Registrations and Certifications

Professional Land Surveyor
035-003788

Various Illinois Department of
Transportation Certifications

Employment History

2011-Present
Chamlin & Associates, Inc.

1992-2011
Etscheid, Duttlinger &
Associates, Inc.

Staffing & Workload

Chamlin & Associates is currently staffed at 60 employees. Based on our current workload, Chamlin & Associates has staff ready and available to provide civil site engineering and structural services as required.

It is anticipated that Mr. Bixby will be the lead engineer on this project with assistance as needed by the other individuals listed. Additional staff are also available for this type of work.

Analysis Methodology

Chamlin's standard methodology to compare alternatives such as the subject sewer alignment alternatives is to complete a Present Worth Analysis using capital cost estimates for construction and long-term operating and maintenance expenses which can be driven back to a present worth cost for comparison. Capital costs would include construction items, easement acquisition, protection methods for long term stability, etc. O&M would incorporate access issues to manholes for inspections and repairs, along with other typical O&M items. We would typically get concurrence on the values we place on operating and maintenance expenses and the assumed recurrence cycle so that our assumptions are not a point of contention. If this particular analysis requires us to select all values and document our rationale in selecting the values and recurrence cycles, that will be fine also. Finally, with respect to the capital costs, this particular project appears to require some unusual or special assignment of values to items such as mature oak trees or other natural features that may be impacted by various options. Again, we would typically get an agreement on our approach with the client and in this case would consider using a value for the cost of tree removal and a secondary cost for the value of the asset that will be permanently removed from the project area. With all these factors included in our present worth cost analysis we believe the City will have a true comparison of costs for each option in order to make their decision. Many times, subjective factors are not included in the analysis and these become the points of contention in selecting a certain option, however it appears the City of Washington wants this 3rd party analysis to drive the alternative analysis to a definite end point, incorporating all subjective issues into the cost structure of the analysis. We will strive to document our basis of analysis and are open to adjustments of our assumptions if all parties with a stake in this decision require this.

Design Firm License

Land Surveying, Professional Engineering, Structural, Engineering, Architectural



INSURANCE CERTIFICATES – Available upon request

City of Streator



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August 30, 2021

City of Washington
301 Walnut Street
Washington, IL. 61571

SUBJECT: Letter of Reference

Dear Committee,

I am pleased to offer this letter of reference for Chamlin and Associates. Since taking the position of City Engineer in 2005, I have worked with them on numerous projects both as a partner on City projects as well as a reviewer for private development work that they designed. During my relationship with them I have found Chamlin to be an exceptional engineering firm that deliver first rate engineering plans, specifications, studies, and construction inspection services. They complete their work within the required timeframes and within budget, including projects with very aggressive schedules.

The most relevant project that I can point to as a representation of this is the Kent Street Interceptor Sewer project that the City completed in 2011. The \$14,000,000 sewer separation project was designed by Chamlin and involved the installation of roughly 8 miles of sewer ranging in size from 8" to 84" within a 320 acre basin in the City. The design proceeded smoothly and construction began in 2009. Work as I stated was completed in 2011, one year ahead of schedule and on budget. During the course of the project only 8 minor change orders were issued to the Contractor, none of which were due to misinformation or lack of detail in the plan set. I have said several times during and after the project that the Kent Street plans were some of the best I have ever worked with considering the scale and depth of the project sewers as well as existing utility conflicts.

Chamlin's involvement during the construction phase was also integral to the project's success. The entire engineering team, from Dean Chalkey who acted as the Project Manager to the survey crew, were all knowledgeable, adaptable to changes required in the field, and worked to make the project a success.

One more item I will note is that the City again went through a competitive RFQ process for engineering services for a preliminary design report and engineering plans for the "Coal Run Creek" sewer separation project and Chamlin was once again selected by the 5 member City review team. Chamlin recently submitted the completed plans for the roughly 1,000 acre drainage area and once again ahead of schedule and within the budget set forth in the original engineering agreement. The plans included all aspects as discussed in the original scope of the agreement and also included additional items that will certainly be advantageous to the future construction phase of the project.

Based on my vast experience working with Chamlin on numerous municipal and private projects of varying types and size, I confidently recommend Chamlin and Associates for your engineering and surveying needs. If you have any other questions or want any further detail, please contact me at 815-672-2517 ext. 236.

Sincerely,

Jeremy Palm, P.E., C.F.M.
City Engineer, City of Streator