

RESOLUTION R-13-09

**A RESOLUTION AUTHORIZING THE EXECUTION OF AN
ENGINEERING SERVICES AGREEMENT
FOR THE HUBBLE-02 SANITARY SEWER BASIN
CAPACITY ASSURANCE IMPROVEMENTS**

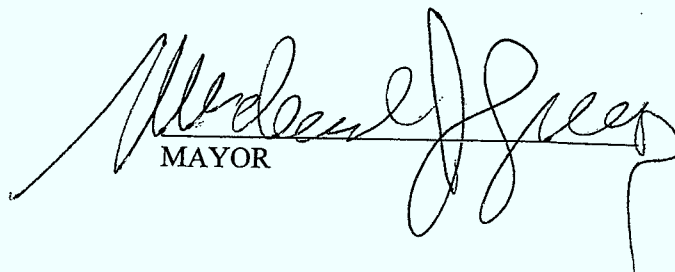
WHEREAS, the City of Wheaton, DuPage County, Illinois, is desirous of performing sanitary sewer upgrades in the Hubble-02 Sanitary Sewer Basin as part of the Sanitary Sewer Capacity Assurance Capital Improvement Plan; and

WHEREAS, the engineering consultant, Bollinger, Lach & Associates, Inc. of Itasca, Illinois, has submitted an engineering services proposal to perform Phase I Preliminary Engineering for the project; and

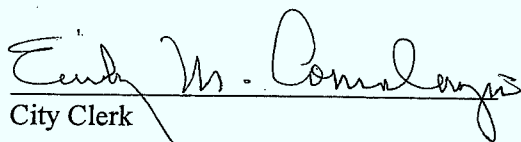
WHEREAS, it is necessary for the City to enter into an agreement for the engineering services.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and City Council of the City of Wheaton, Illinois, that the Mayor is authorized to execute an agreement between the City of Wheaton and Bollinger, Lach & Associates, Inc. of Itasca, Illinois for the Hubble-02 Sanitary Sewer Basin Capacity Assurance Improvements.

ADOPTED this 2nd day of March, 2009.


MAYOR

ATTEST:


City Clerk

ROLL CALL VOTE:

Ayes: Councilman Prendiville
Councilwoman Corry
Councilman Johnson
Councilman Levine
Mayor Gresk
Councilman Mouhelis

Nays: None

Absent: Councilman Suess

Motion Carried Unanimously

**Agreement Between the City of Wheaton, Illinois
and Bollinger, Lach & Associates, Inc
for Hubble-02 Sanitary Sewer Basin Capacity Assurance Improvements**

This Agreement is entered into by and between the City of Wheaton, an Illinois municipal corporation ("City"), 303 West Wesley Street, Wheaton, IL 60187, and Bollinger, Lach & Associates, Inc "Consultant", 333 Pierce Road, Itasca, IL 60143.

WITNESSETH:

Whereas, the City has determined that it is necessary to obtain the services of a professional engineering consultant to perform Phase I – Preliminary Engineering based on the recommendation of the Wheaton Wet Weather Study to upsize sanitary sewer pipes within the specified sanitary sewer basin area known as Hubble -02; and

Whereas, the City has heretofore requested proposals as more fully recited in the *Request for Proposal* distributed on January 20, 2009 a copy of which is attached hereto and incorporated herein as Exhibit A; and

Whereas, the Contractor did submit a *proposal* to the City for the work specified, which is attached hereto and incorporated herein as Exhibit B; and

Whereas, the City finds the proposal submitted by the Consultant meeting the engineering services required by the City.

Now, therefore, for in consideration of their mutual promises, terms, covenants, agreements, and conditions recited in this Agreement, the City and the Consultant hereto do hereby agree as follows:

1. *Scope of Services*. The Consultant shall furnish all labor, materials, and equipment to provide the City of Wheaton with the required engineering services as described in this Agreement and attached Exhibit A. The Consultant represents that it shall perform the services in a manner consistent with the level of care and skill customarily exercised by other professional Consultants under similar circumstances.

2. *Compensation*. The City shall compensate the Consultant according to the terms of the Consultant's proposal which is attached hereto as Exhibit A.

3. *Additional Services*. The Consultant shall provide only those goods and perform only those services specified in this Agreement and attached Exhibits. In the event the Consultant or the City determines that additional goods and/or services are required to complete the project, such additional goods shall not be provided and/or such additional services shall not be performed unless directed in writing by the City. Terms, frequency, and prices for additional services shall be as mutually agreed upon in writing by the City and the Consultant.

4. *Hold Harmless and Indemnification.* The Consultant shall hold harmless, and indemnify the City, its directors, officers, employees, and agents, from and against any and all liabilities, losses, claims, demands, damages, fines, penalties, costs, and expenses, including, but not limited to, reasonable attorneys' fees and costs of litigation, and all causes of action of any kind or character, except as otherwise provided herein, to the extent that such matter arises from either of the following:

- a) The Consultant's breach of any term, provision, standard or requirement of this Agreement including, but not limited to, those provisions of this Agreement pertaining to the Consultant's services; or
- b) The negligence or willful misconduct of the Consultant, its employees, agents, representatives, and subcontractors.

In the event that any claim for indemnification hereunder arises from the negligence or willful misconduct of both the Consultant and the City, the parties agree that any and all liabilities, losses, claims, demands, damages, fines, penalties, costs, and expenses shall be apportioned between the parties on the basis of their comparative degrees of fault, except as otherwise herein provided.

5. *Insurance.* The Consultant and each of its agents, subcontractors, and consultants hired to perform any services provided for herein shall purchase and maintain during the term of this contract insurance coverage which will satisfactorily insure the Consultant and, where appropriate, the City against claims and liabilities which may arise out of the services referred to in this Agreement. Such insurance shall be issued by companies authorized to do business in the State of Illinois and approved by the City. The insurance coverages shall include, but not necessarily be limited to, the following:

- a) Worker's compensation insurance with limits as required by the applicable statutes of the State of Illinois. The employer's liability coverage under the worker's compensation policy shall have limits of not less than FIVE HUNDRED THOUSAND DOLLARS (\$500,000.00) each accident/injury and FIVE HUNDRED THOUSAND DOLLARS (\$500,000.00) each employee/disease.
- b) Commercial general liability insurance protecting the Consultant against any and all public liability claims which may arise in the course of performance of this contract. The limits of liability shall be not less than ONE MILLION DOLLARS (\$1,000,000.00) each occurrence bodily injury/property damage combined single limit and ONE MILLION DOLLARS (\$1,000,000.00) aggregate bodily injury/property damage combined single limit. The policy of commercial liability insurance shall include contractual liability coverage and an endorsement naming the City as an additional insured.
- c) Commercial automobile liability insurance covering the Consultant's owned, non-owned, and leased vehicles which protects the Consultant against automobile liability claims whether on or off of the City's premises with coverage limits of not less than ONE MILLION DOLLARS (\$1,000,000.00) per accident bodily injury/property damage combined single limit.

d) Professional liability insurance with limits of not less than ONE MILLION DOLLARS (\$1,000,000.00) per claim covering the Consultant against all sums which the Consultant may become obligated to pay on account of any liability arising out of the performance of the professional services for the City under this contract when caused by any negligent act, error, or omission of the Consultant or of any person employed by the Consultant or any others for whose actions the Consultant is legally liable. The professional liability insurance shall remain in force for a period for not less than four (4) years after the completion of the services to be performed by the Consultant under this contract provided that same is reasonably available at term and cost similar to what is available at time of execution of this agreement.

6. *Compliance with Laws.* The Consultant shall comply with all applicable federal, state, and local laws, rules, and regulations, and all City ordinances, rules and regulations now in force or hereafter enacted, as of the time of the performance of the services required under this Agreement.

7. *Termination of Contract.* If the Consultant fails to perform according to the terms of this Agreement, then the City may terminate this Agreement upon seven (7) days written notice to the Consultant. In the event of a termination, the City shall pay the Consultant for services performed as of the effective date of termination, less any sums attributable, directly or indirectly, to Consultant's breach. The written notice required under this paragraph shall be either (i) served personally during regular business hours; (ii) served by facsimile data transmission during regular business hours; or (iii) served by certified or registered mail, return receipt requested, addressed to the address listed in this Agreement with postage prepaid and deposited in the United States mail. Notice served personally and by facsimile data transmission shall be effective upon receipt, and notice served by United States mail shall be effective three (3) business days after mailing.

8. *Discrimination Prohibited.* The Consultant shall comply with the provisions of the Illinois Human Rights Act, as amended, 775 ILCS 5/1-101 et seq. (1992 State Bar Edition), and with all rules and regulations established by the Department of Human Rights. The Consultant agrees that it will not deny employment to any person or refuse to enter into any contract for services provided for in this Agreement to be performed on its behalf on the basis of unlawful discrimination as defined in the Illinois Human Rights Act.

9. *Status of Independent Consultant.* Both City and Consultant agree that Consultant will act as an Independent Consultant in the performance of duties under this agreement. Accordingly, the Independent Consultant shall be responsible for payment all taxes including federal, state, and local taxes arising out of the Consultant's activities in accordance with this agreement, including by way of illustration but not limitation, federal and state income tax, social security tax, and any other taxes or license fees as may be required under the law. Consultant further acknowledges under the terms of this Agreement, that it is not an agent, employee, or servant for the City for any purpose, and that it shall not hold itself out as an agent, employee, or servant of the City under any circumstance for any reason. Consultant is not in any way authorized to make any contract, agreement, or promise on behalf of City, or to create any implied obligation on behalf of City, and Consultant specifically agrees that it shall not do so.

City shall have no obligation to provide any compensation or benefits to Consultant, except those specifically identified in this Agreement. City shall not have the authority to control the method or manner by which Consultant complies with the terms of this Agreement.

10. *Assignment; Successors and Assigns.* This Agreement may not be assigned by either of the parties hereto without the written consent of all other parties. Upon approval of assignment, this Agreement and the rights, interests and obligations hereunder shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

11. *Recovery of Costs.* In the event the City is required to file any action, whether legal or equitable, to enforce any provision of this Agreement, the City shall be entitled to recover all costs and expenses incurred as a result of the action or proceeding, including expert witness and attorney's fees, if so provided in any order of the Court.

12. *Notification.* All notification under this Agreement shall be made as follows:

If to the Consultant:
Bollinger Lach & Associates
Attn: Craig A. Lukowicz, PE
333 Pierce Road
Itasca, IL 60143

If to the City:
City of Wheaton
Attn: City Clerk
303 W. Wesley Street, Box 727
Wheaton, IL 60189-727

13. *Waiver.* Any failure of either the City or the Consultant to strictly enforce any term, right, or condition of this Agreement shall not be construed as a waiver of such term, right, or condition.

14. *Integration.* The provisions set forth in this Agreement represent the entire agreement between the parties and supersede all prior agreements, contracts, promises, and representations, as it is the intent of the parties to provide for a complete integration within the terms of this Agreement. This Agreement may be modified only by a further written agreement between the parties, and no modification shall be effective unless properly approved and signed by each party.

15. *Non-disclosure.* During the course of the work specified in this Agreement, Consultant may have access to proprietary and confidential information including, but not limited to, methods, processes, formulae, compositions, systems, techniques, computer programs, databases, research projects, resident name and address information, financial data, and other data. Consultant shall not use such information for any purpose other than described in this Agreement and Exhibits and shall not directly or indirectly disclose such information to any third party without the express written consent of the City.

16. *Severability.* If any provision of this Contract is held to be illegal, invalid, or unenforceable, such provision shall be fully severable, and this Contract shall be construed and enforced as if such illegal, invalid, or unenforceable provision were never a part hereof; the remaining provisions hereof shall remain in full force and effect and shall not be affected by the

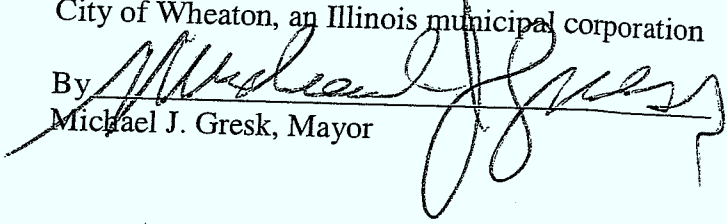
illegal, invalid, or unenforceable provision or by its severance; and in lieu of such illegal, invalid, or unenforceable provision there shall be added automatically as part of this agreement, a provision as similar in its terms to such illegal, invalid, or unenforceable provision as may be possible and legal, valid and enforceable.

17. *Governing Law.* This Agreement shall be governed by and construed in accordance with the laws of the State of Illinois, without giving effect to its conflict-of-laws rules.

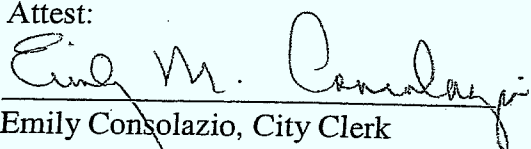
18. *Validity.* In the event that any provision of this Agreement shall be held to be invalid or unenforceable, the same shall not affect in any respect whatsoever the validity or enforceability of the remainder of this Agreement.

In Witness Whereof, the parties have entered into this Agreement this 2nd day of March, 2009.

City of Wheaton, an Illinois municipal corporation

By 
Michael J. Gresk, Mayor

Attest:


Emily Consolazio, City Clerk

Bollinger Lach & Associates

By _____

Attest:

A

**CITY OF WHEATON SANITARY SEWER
CAPACITY ASSURANCE CAPITAL IMPROVEMENT PLAN**

**REQUEST FOR PROPOSAL
PHASE I – PRELIMINARY ENGINEERING
HUBBLE – 02 BASIN**

BACKGROUND

In 2005, the Wheaton Sanitary District commissioned a study to develop a wet weather plan for the District's wastewater treatment plant and sanitary sewer collection system tributary to their plant. The City of Wheaton agreed to collaborate with the District and share the cost of the study since 65 percent of the collection system tributary to the District's WWTP belongs to the City of Wheaton.

Part of the study addressed the need to reduce the amount of inflow and infiltration (I&I) to prevent sanitary sewer overflows (SSO) during moderate rain events. The conclusion of this study indicated several existing sanitary lines were under-capacity and required upsizing or the installation of a parallel sewer pipe.

The report prepared at the conclusion of the study ranked the pipe upsizing from which the City developed a 10-year Capacity Assurance Capital Improvement Plan.

SCOPE OF PROJECT

The City of Wheaton is seeking professional engineering services to perform Phase I – Preliminary Engineering on the recommendation of the Wheaton Wet Weather Study to upsize sanitary sewer pipes within the specific sanitary sewer basin known as Hubble – 02 (see attached map). The Phase I scope of services shall consider, but not necessarily be limited to, the following:

- Investigate and verify the wet weather study report recommendation to replace the existing sanitary sewer pipe with the specified diameters listed in the report.

- Investigate the feasibility of replacing the sanitary sewer in the existing route by identifying any potential conflicts with other utilities, interruption of surface facility functions, and various construction techniques.
- Identify potential alternative routing of the sanitary sewer that may offset the potential adverse impacts identified in the previous task.
- Provide a "feasibility of construction" report of all proposed options and indicate the most desirable option that would benefit the City in terms of ease of installation, less disruption to the public, and cost.
- Identify all permitting requirements with potential time-frames for the work.
- Provide a preliminary route plan utilizing aerial photography identifying the intended route(s).
- Investigate and locate all utilities, City-owned and others, in the vicinity of the sanitary sewer route to determine any potential conflicts.
- Identify all pipe inverts of all existing sewers associated with the Hubble-02 Basin.
- Prepare a probable cost of construction based on the preliminary study.
- Provide a summary of findings in a final report specifying the most desirable option to proceed with final design engineering.

PROPOSAL SUBMITTAL

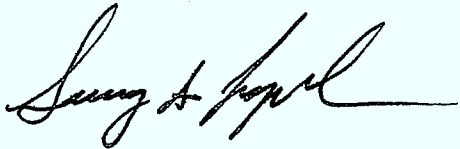
Three (3) copies of your proposal shall be submitted to the attention of Mr. Paul G. Redman, P.E., Director of Engineering, City of Wheaton, 303 W. Wesley Street, Wheaton, IL 60187 **no later than 5:00 PM February 13, 2009.**

The proposal shall include a not-to-exceed cost estimate for services based on estimated personnel-hours per each task listed above including necessary materials. Identification of sub-consultants and their work tasks shall be included in your proposal.

Thank you for taking the time to prepare this proposal and please feel free to contact me directly at 630-260-2067 if you should have any questions.

Sincerely,

DEPARTMENT OF ENGINEERING



Sarang A. Lagvankar, P.E.
Senior Project Engineer

R-13-09
B

Proposal

**Capacity Assurance
Capital Improvement Plan**

**Phase I Preliminary
Engineering Services**

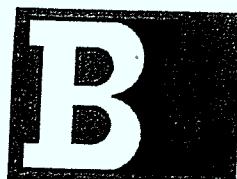
**Hubble-02
Sanitary Sewer Basin**



City of Wheaton

February 13, 2009

**CONSULTING
ENGINEERS
SCIENTISTS
& LAND
SURVEYORS**



Bollinger, Lach & Associates, Inc.



February 13, 2009

City of Wheaton
Mr. Paul G. Redman, P.E. – Director of Engineering
303 W. Wesley Street
Wheaton, Illinois 60187

Re: Proposal
Capacity Assurance Capital Improvement Plan
Phase I Preliminary Engineering Services
Hubble – 02 Sanitary Sewer Basin

Bollinger, Lach & Associates, Inc. (BLA) appreciates the opportunity to submit our proposal to provide Phase I Preliminary Engineering Services for the Hubble -02 Sanitary Sewer Basin. BLA has the experience and expertise necessary to service the City of Wheaton since we have worked on similar projects and have the local staff available for your project. BLA has demonstrated the ability to work with the community, contractors and municipal officials to accomplish projects on schedule and within budget.

We are giving you our "A" team for this project because we know how important this project is to the City of Wheaton. We would love nothing more than to work on the completion of this project and would be proud to say we did to other Wheaton residents when it is successfully completed. We also believe we can address any needs or emergencies quickly before they become larger problems.

Our firm has offices in Itasca, Algonquin, and Chicago. Our mailing address and contact information is presented below:

Corporate Office
333 Pierce Road, Suite 200
Itasca, Illinois 60123
Phone: (630) 438-6400

We sincerely appreciate the opportunity to submit our proposal to the City of Wheaton and look forward to answering any questions you may have to further clarify our submittal.

Sincerely,
Bollinger, Lach & Associates, Inc.

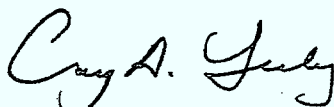

Craig A. Lukowicz, P.E.
Executive Vice President

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Key Elements

Bollinger, Lach & Associates, Inc. (BLA) has visited the project site and reviewed the Wheaton Wet Weather Study. Below are a few items we believe will be key to the success of this project.

Utility Research

In order for BLA to provide the best recommendation for the proposed replacement sewer route, utility research is critical. Not only does the information have to be accurate, but we need all of it. This will include GIS data, benchmark data, storm and water atlases from the City, gas and electric atlases, and underground communication atlases.

While most of the sewers may be 11 feet deep on average, the problem with conflicts will be in the installation of the sewers, not the actual final location of them. This is especially important when the contractor has to pull a trench box or plates and a box to install the sewer. Overhead utilities may also prove troublesome for backhoes that need to pull sheeting and lay down next to the work zone. This information will all need to be used to arrive at the best possible sewer route.

Sewer routing

The sewer route will need to be selected based on a variety of factors including cost and constructability of the sewer. Factors having a direct impact on the cost and constructability are listed below:

- Traffic control, i.e. how much of the streets will be torn up during construction, and how will Metra and other City services be affected?
- Railroad crossings and number of bores required for the crossings, is there enough area to excavate jacking and receiving pits for casing pipes? How much will the lease agreements and permit fees cost?



Existing Railroad Tracks



Sewers near residential backyards and railroad tracks

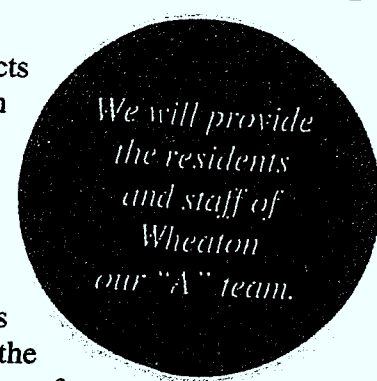
- Are the soils bad in the areas of construction? Will the construction require constant dewatering? Will standard sheeting work or will the groundwater and running soils cause the excavations to grow?
- In areas where sewer is proposed to be replaced in the same location, is bypass pumping possible based on distance between manholes?
- In areas where the sewers will change location, how much work will be required to reconnect existing services?

Why Choose the BLA Team?

BLA Experience

BLA and our team members have worked on the same types of projects throughout the area. We have in-house survey staff, as well as construction staff who are readily available for constructability reviews.

Craig Lukowicz, P.E. will be the project principal and brings over 29 years of experience. Craig has worked on multiple sanitary sewer studies for the Valley View area for Citizens Utilities. Work was based on previous I&I studies and was completed with the intent of maintaining service to the residents during construction. He also worked on the design and construction for the rehabilitation of over 2,200 manholes in the Chicago Suburban Service area for Citizens. The design included specific repairs to each manhole and the categorization of these repairs so that the project could be easily bid by contractors. Extensive coordination was completed with the contractor due to multiple crews working on the project to meet a tight construction schedule.



*We will provide
the residents
and staff of
Wheaton
our "A" team.*

Project Manager, Brendan Daly, P.E., brings over 13 years of sanitary sewer experience to the project. Brendan's experience includes working on sewer projects for various downstate communities including the Village of Ludlow in Champaign County. The community, which is unsewered, applied for IEPA grant under the IEPA Unsewered Community Grant Program. Brendan helped apply for the grant, design the sewers for the entire community and work on an interceptor and force main to take the sewage from Ludlow south to Rantoul for treatment.

In North Chicago, Brendan designed the new interceptor along Sheridan Road and Martin Luther King Jr. Drive to serve a proposed 40 acre development at that intersection (Phase I). In addition, he designed the second phase of the project which was for the complete road reconstruction project of Martin Luther King Jr. Drive from Green Bay Road to Sheridan Road. He also helped apply for and secure the IEPA Sewer loan through the State Revolving Loan Fund to help pay for the second phase. After designing both phases of the project, he performed construction observation on the first phase for 9 months. That sewer was as deep as 26 feet and installed in lake sand for almost the entire route. The project included large amounts of restoration of the roads and parks in the area.

Project Approach

BLA's approach to the project will include work to provide services as outlined in the RFP, in the following order.

Investigate Report/Research

BLA will review the "Wheaton Wet Weather Facility Plan" prepared by Black and Veatch in 2006 to understand the scope of the problems on the project and to verify the pipe size recommendations. This work will be necessary prior to a meeting with the City and Sanitary District. Once that work is done we would meet with the stakeholders to kick off the project and make information requests such as GIS information, utility atlases and any other information that may pertain to the preliminary engineering.

Investigate and Locate All Utilities

Our survey department will take information provided after our kick off meeting and use it to create the project database. JULIE will be called for a design stage locate request and base sheets for the existing sewer route will be created. This work will be completed prior to field time so a base map of the project is in hand for the surveyors. Benchmark information will also be collected at this time so the preliminary engineering data is on the same datum as the City and Sanitary District.



Existing Manhole

Identify All Inverts

Our field crew will walk the entire project limits and run a level circuit or verify an existing one if it exists. Each existing manhole outlined in the system map from the RFP will be surveyed for rim and invert information, and storm sewers that are currently in conflict will also be identified for rim and invert information. This will help later in the sewer routing to identify the potential future conflicts.

Identify Feasibility of Replacement

After all of the utility information is collected and processed, we will review the option of replacing the entire sewer in the same location that it is in currently. We will look at conflicts, traffic issues associated with construction in the road, and potential alternative construction methods to open cut. Our conclusions from this task will serve as the basis of comparison for the flowing task to provide alternate routing. Elements that will impact the existing route will include the pavement, railroad, trees and keeping the sewers in service during construction.

Identify Potential Alternatives

Once all of the existing utility information is collected and processed, the preliminary design will begin. This part of the project will involve the existing route review in regards to utility conflicts, consideration given to traffic interruption and maintenance of traffic, railroad boring considerations and constructability of the existing route. Based on the findings of this preliminary "constructability" review, we will identify areas where alternative routes may be considered.

After walking the job, we have noticed that the sewer route through Hoffman Park is in the residential rear yards on the east side of the park and on the east to west stretch the sewer is under trees. This could be an example of rerouting the sewer to short cut from 4G11 to 4G9 at an angle instead of the right angle approach. This could save costs in tree removal and pipe length. We also can assume that by shortening the run of sewer that the slopes would work for this type of alternative. This assumption would be proved out after the survey information is reviewed.



Hoffman Park

Our project team will draw on its experience in construction observation of sewer projects to identify potential cost "extras" for the sewer routing and avoid as best as possible the problem areas. For example, when Brendan Daly inspected a 25 foot deep sewer installation in North Chicago, he saw the value in knowing about existing soil conditions prior to construction work commencing. That is something that may be considered for this project as well.

Provide a Preliminary Route

There are several issues with replacing the sanitary sewers in the same proximate locations as existing. The areas of the project include a park, residential area, major streets, 3 railroad crossings and a route along an existing commercial building. After walking the site, the first issue that was obvious was that the sanitary sewer is under pavement on Crescent Street. It appears that the street will be significantly disrupted during construction, and there is Metra parking along the street. The depth of the sewer at an average of 11 feet will require at least one lane closure.

Hill Street and Prospect Avenue are the same situation. The area through the park is the only open area on the whole project. Between manhole 4G9 and 4G10 does have trees between them but we could reroute from 4G9 to 4G10A and stay clear of the trees. The houses may or may not be tributary to this sewer, if they are served on Glendale Avenue.

The preliminary route task will end with the creation of 3 or 4 exhibits with each route plotted on the aerial base maps. The exhibits will be incorporated into the Feasibility of Construction Report.

Prepare "Feasibility of Construction Report of Proposed Options and Preferred Alternative"

Once the routes have been studied and we have the replacement in place as well as two or three alternate routes, we will prepare a report that discusses the preferred route based on our findings in the previous tasks with respect to cost, ease of construction, maintenance of traffic, disruption to businesses and other factors. Based on the field visit, work done on Crescent Street will likely affect the METRA commuter parking south of the station. We will also see what impacts installing casing pipe roughly 11 feet deep next to the railroad tracks will have on College Avenue by East Harrison Avenue. The report will display the sewer routes and advantages and disadvantages for the City and District to review. Brendan and Craig's experience with sewer design and installation will prove beneficial to this route selection.



Metra Commuter Parking

Identify Permitting Requirements

IEPA NOI and sanitary sewer permits would be required for this project in the final engineering stages. Under the preliminary engineering scope, we will list the requirements for the project in the final report. Other permitting and agreements required for final engineering will also include railroad coordination for the crossings, potential road right of way permits from various agencies and easement acquisition with the park district and the landowners at 1825 College Avenue.



1825 College Avenue

Prepare Probable Cost of Construction

As part of the feasibility report, BLA will prepare opinions of probable costs as a basis for selecting the preferred route. We will draw on past bid tabulations for our projects as well as discuss the project in generalities with some of our preferred contractors. This approach will help us get the best estimate in the preliminary engineering phase. We have bid multiple projects with sanitary sewers as well as projects that involve street restoration. This phase of work will be checked internally with our construction department and prepared as a unit price estimate.

Provide Summary of Findings in Final Report

The second deliverable for the project will be the final report. This document will include exhibits in the form of aerial maps with preferred sewer routing superimposed on them, a cost estimate, and the foreseen permitting requirements to construct the recommended sewer engineering. The report will outline potential design challenges for the City and Sanitary District to consider, as well as areas that may require right of way or easement acquisition. With the final report in hand, the final design engineer should have a clear understanding of the project.

Firm	Bollinger, Lach & Associates, Inc.
Project	Hubble-02 Sanitary Sewer
Client	City of Wheaton

R-13-09

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Page 3

Direct Costs For City of Wheaton Hubble-02 Sanitary Sewer Basin

Survey Crew Meetings

1 Days
3 Days

Answer: **False**

Preliminary report
Final report

5 Reports
5 Reports

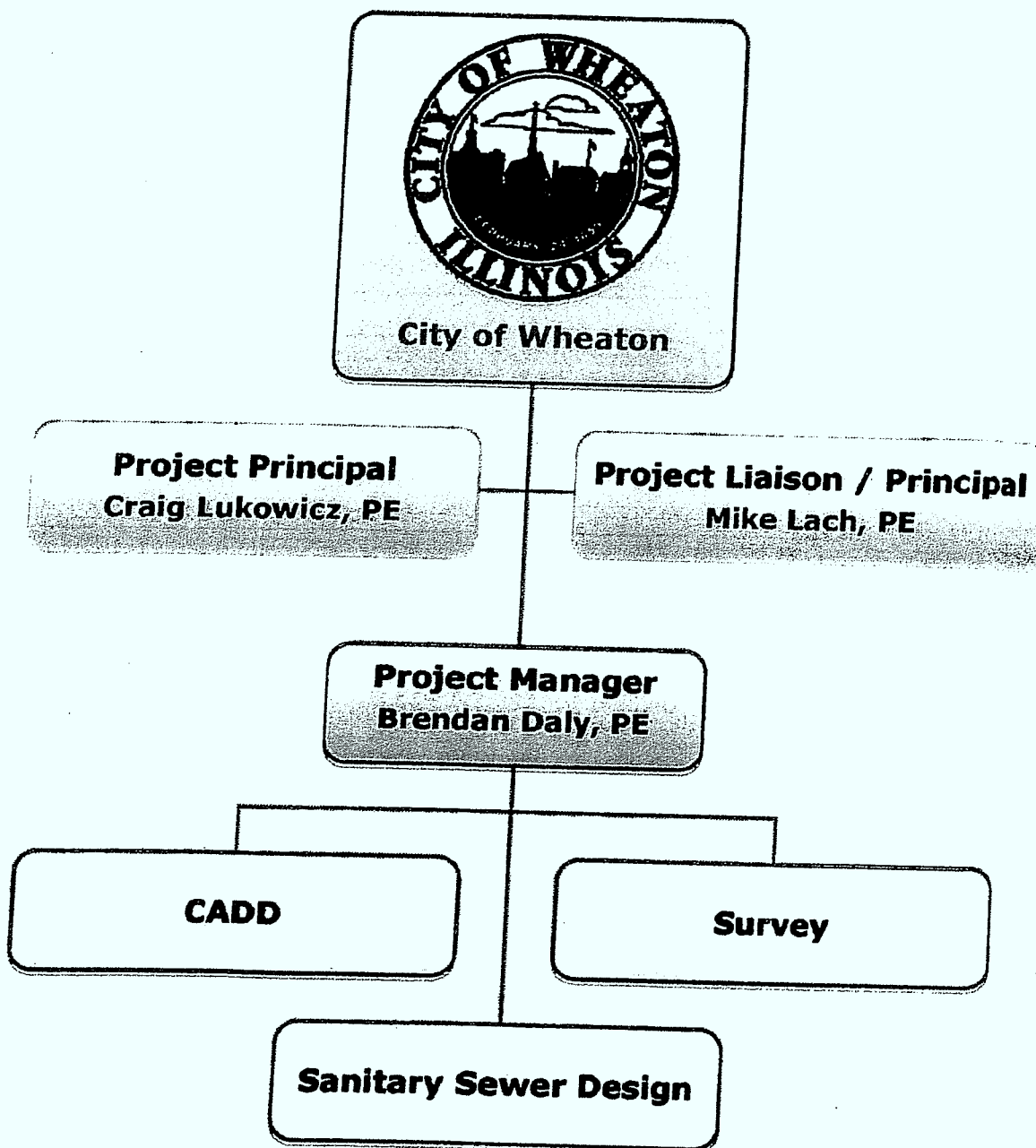
ii iii

\$220.00

Project Team

All of the proposed staff shown in the Organization Chart are available to serve the City of Wheaton. The personnel who are shown are the staff that will be assigned to project based on the requirements and need for their engineering expertise. Resumes of key individuals are included.

Organization Chart



CRAIG A. LUKOWICZ, P.E.

Project Principal

Education

*University of Illinois - B.S. Civil
Engineering, 1979*

Professional Registration

*Professional Engineer:
State of Illinois: #062-041788, 1987*

Professional Societies

*Member- American Public Works
Association (APWA); American
Council of Consulting Engineers
(ACEC); Illinois Society of
Professional Engineers (ISPE);
Illinois Road & Transportation
Builders Association (IRTBA)*

Industry Activities

*Serves on the Chapter American
Public Works Associations Golf
Committee*

*Serves on the American Consulting
Engineers Council Committees*

*Serves as the Illinois State Toll
Highway Liaison*

*Serves as the Cook County Liaison
and on the Engineering Excellence
Awards Committee*

*Serves on the Illinois Road Builders
Liaison Committee for Lake, Cook,
DuPage, McHenry and Will
Counties*

Experience Summary

Experience since 1979 in Project Management, design, feasibility studies, and construction coordination of numerous site development, municipal, IDOT and ISTHA projects. Over ten years as partner/owner in the firm.

Representative Projects

Project Principal for US Route 20 Watermain & Sanitary Sewer; Bloomingdale, IL - Designed and relocated sanitary sewer and watermain systems for a two mile road reconstruction project. Work included identifying and resolving numerous utility conflicts encountered between storm sewer, sanitary sewer, watermain, Commonwealth Edison lines, Ameritech conduit, and Northern Illinois Gas lines. Special emphasis for the projects was directed towards maintaining water and sanitary service to residences in the area during construction operation.

Project Principal for the reconstruction of \$33 million project involving 6 miles of US 14 through Palatine and Barrington; IDOT - Work included roadway and reconstruction of a 5-lane pavement with new storm sewer, utility relocations, and extensive coordination of local businesses. This project also included two railroad crossings and coordination with the UPRR

Project Principal for Winston Park drainage improvements; Village of Palatine - Work included attending public and neighborhood meetings, preparation of drainage reports, contract plan design, construction supervision for residential areas with flooding problems. Work involved establishing budgets, a 5-year plan and assisting with the bidding process.

Project Principal for various watermain and sanitary sewer projects for municipalities; Crystal Lake, Palatine, West Chicago, Highland Park, Barrington and Bloomingdale - Responsibilities included preparation of contract plans, resolving utility conflict issues, bid assistance and permit preparation.

Previous Professional Experience

Valley View Sanitary Sewer Replacement - Citizens Utilities-DuPage County - This work consisted of replacing approximately 5,000 LF of trunk line sanitary sewer in the Valley View subdivision. Work involved coordination with the residents during design and construction, sanitary sewer design, utility coordination, and permitting with IEPA and Milton Township.

Valley View Sewer Repairs - Citizens Utilities-DuPage County - The project consisted of sanitary sewer design for point repairs and sewer replacement for the Valley View subdivision of Citizens Utilities. Plans were designed to replace damaged and leaking sanitary sewer, services, and joints in a subdivision.

Chicago Suburban Sanitary Sewer Replacement - Citizens Utilities-Mt. Prospect/Prospect Heights - Provided complete sanitary sewer design and construction inspection for the replacement of approximately 10,000 LF of sewer main. The sanitary sewer was designed to replace leaking and damaged sewers with some sewers as deep as 20 feet.

Chicago Suburban I&I Manhole Rehabilitation - Citizen Utilities-Mt. Prospect - This work included the design and construction for the rehabilitation of over 2,200 manholes in the Chicago Suburban Service area. The design included specific repairs to each manhole and the categorization of these repairs so that the project could be easily bid by contractors.

BRENDAN P. DALY, P.E.

Project Manager

Education*University of Illinois – BSCE, 1995***Professional Registration***Professional Engineer:**State of Illinois: #062-054900, 2001**State of Indiana: #10200422, 2002***Professional Societies***Secretary – American Public Works
Association (Chicago Metro-
Suburban Branch)***Specialized Software***StormNet
WaterCAD
StormCAD
AutoCAD
TR 20***Experience Summary**

Experience since 1996. Civil engineering experience includes design for municipal projects such as water mains, storm sewer mains and sanitary sewer mains; private projects range from one lot commercial sites to residential subdivisions. Involvement in these projects includes topographic surveying, utility coordination, preparation of plans and specifications, permitting, construction observation and construction management. Experience also includes writing loan and grant applications to the IEPA Infrastructure Financing Assistance Section for public sewer and water construction projects.

Representative Projects

Project Manager for Welco Corners utility extensions, Bolingbrook; George Rediehs Company – Design and permitting for the extension of 3,000 feet of sanitary sewer and 4,500 feet of 12-inch diameter water main to serve 12 commercial properties. Work will include permitting through IDOT and IEPA as well as Illinois American Water Company and the Village of Bolingbrook.

Project Manager for Rand Road Sanitary Sewer Extension; The Village of Palatine – The work included the design of a 1,200 foot sewer extension on Rand Road from Lake Cook Road to the southeast. (Project currently underway)

Previous Professional Experience

Engineer responsible for the design of 24" diameter storm sewers on Broadway in North Chicago to serve a commercial development and alleviate flooding problems in the area – Project included topographic survey, engineering design, specification writing and construction observation and management.

Engineer responsible for the design of water mains to replace undersized and deteriorating mains village wide; Fairmount, Illinois – Project involved engineering design, environmental and railroad permitting, construction observation and management.

Engineer responsible for the design of 24" diameter sanitary sewers to replace existing sewers in the right of way of Martin Luther King Jr. Drive (Phases 1 and 2); North Chicago, IL – Project included engineering design, specification writing and permitting with IEPA as well as application to the IEPA Infrastructure Financing Assistance Section for a construction loan. Responsibilities also included construction management.

Engineer responsible for the design of a new sanitary sewer system; Ludlow, Illinois – The Village is an unsewered community and the project involved design of a gravity collection system to a lift station to be pumped to an interceptor sewer which would connect to the Village of Rantoul treatment system. Project involved easement negotiations, engineering design for the sewer mains, pumping station, force mains, environmental permitting and application to the IEPA Unsewered Community Grant program.

Engineer responsible for the design of water mains to replace undersized and deteriorating mains; Melvin, Illinois – The project also involved the design of a 125,000 gallon elevated water storage tank, controls and pump station improvements to replace the 100-year old 50,000 gallon elevated storage tank. Project involved engineering design and environmental permitting.

Similar Projects

US Route 20 Watermain & Sanitary Sewer –Bloomingtondale, IL

Designed and relocated sanitary sewer and watermain systems for a two mile road reconstruction project. Work included identifying and resolving numerous utility conflicts encountered between storm sewer, sanitary sewer, watermain, Commonwealth Edison lines, Ameritech conduit, and Northern Illinois Gas lines. Special emphasis for the projects was directed towards maintaining water and sanitary service to residences in the area during construction operation.

Extensive utility design for sanitary and watermain was required due to the considerable widening of US Rte. 20 through downtown Bloomingtondale. The widening left minimal right-of-way and created numerous conflicts with the new road and storm sewer. BLA was asked to design the new village utilities and work out conflicts that required approximately 75 parcels of land to construct. All the utility design was performed to maintain service to all residents and businesses at all times during construction. Work included inspection, quantities, and construction coordination.

Fox Metro Water Reclamation District – Sanitary Sewer Facilities Design – Aurora, IL

Completed the design plans and specifications for forcemain and appurtenances to accommodate the projected sanitary loadings based on the comprehensive F.P.A. Plan. Our services included coordination with the district, villages and developers to determine current/proposed sanitary loadings, assisted in the development of a comprehensive plan to accommodate future development and the preparation of design plans/specifications for proposed improvements.

Cunningham Road Forcemain – Palatine, IL

Performed design and construction engineering, representing the Village of Palatine for a 0.5 mile forcemain replacement. The scope of work included complete design and full time construction engineering services for directional boring of the new forcemain, traffic control, curb, gutter and pavement repairs, landscaping, pay estimates and documentation for Block Grant Funding. The project was expedited to meet funding deadlines and had to be integrated between existing utilities in a residential area of Palatine. BLA also coordinated public open house meetings to keep residents informed of the project.



Sanitary Sewer Study/Comprehensive Design Recommendations – Hainesville, IL

Completed a study regarding F.P.A. allocations versus the Village's Comprehensive Zoning Plan and assisted in the overall joint forcemain design recommendations. Our services included the field review and preparation of an exhibit estimating existing sanitary sewer loadings, proposed sanitary loadings based on the revised comprehensive zoning plan and assisted in the design of the joint force main and appurtenances to handle all future loadings based on a projected development.

US Route 14 Sanitary Sewer Replacement – Barrington, IL

Designed and relocated an existing main line sanitary sewer, which was damaged during construction and also due to the age of sewer, was deteriorated beyond repair. BLA provided a stage construction plan so that the existing services to the local businesses in downtown Barrington would not be disrupted during the replacement of the sewer. This project was performed on an expedited schedule so that it could be completed with the ongoing US Route 14 construction. BLA was also in charge of the construction inspection for this sewer and processing the contractor payout information.

Babson Park Sanitary Sewer Extension – DuPage County, IL

The Babson Park sanitary sewer extension was a SSA project for the DuPage County Department of Public Works. The purpose of the project was to provide a new sanitary sewer main and service laterals to an older subdivision being serviced by septic fields. Responsibilities included design of the sanitary sewer trunk line and laterals to provide service to all lots within the subdivision, preparation of construction drawings/bid documents/specifications, obtaining necessary permits, preparation of cost estimates, and coordination with the County and contractors during bidding. BLA worked extensively with the homeowners during the preliminary and final design stages to best determine location and required depth for each service to keep costs to a minimum. BLA met with homeowners on site to answer any questions and help determine proper service locations. Along with the County, BLA met with local residents during public hearings answer any questions or comments prior to the start of construction.

Greater Chicago Auto Auction – Matteson, IL

Design engineer for 900 acre development. Work includes topographic surveys, master infrastructure of sanitary sewer, two master lift station designs, water distribution, storm sewer systems, master site designs for stormwater management and detention, floodplain/floodway remapping, roadway design, traffic studies, lighting, signals, drainage reports, feasibility and construction documents for all land development work.

Valley View Sanitary Sewer Replacement – Citizens Utilities-DuPage County, IL

This work consisted of replacing approximately 5,000 LF of trunk line sanitary sewer in the Valley View subdivision. The work was based on previous I&I studies and was one phase of the effort to reduce sewer back-ups in the area. Service to existing residents was maintained as part of the design and construction. A high water table complicated the replacement of the 10" sewer, so well points were designed every 150' feet along the sewer in order for the project to be constructed. Work involved coordination with the residents during design and construction, sanitary sewer design, utility coordination, and permitting with IEPA and Milton Township.

Valley View Sewer Repairs – Citizens Utilities-DuPage County, IL

The project consisted of sanitary sewer design for point repairs and sewer replacement for the Valley View subdivision of Citizens Utilities. All work was based on I&I studies and was a phase of the effort to reduce I&I in the area. Plans were designed to replace damaged and leaking sanitary sewer, services, and joints in a residential subdivision. This work involved coordination and liaison with the residents since all the work was in front yards and back yards of the homes. Scope of work included the design and construction of multiple point repairs, main line replacement, utility coordination and all required permitting. All design was completed with the intent of maintaining service to the residents during construction.

Chicago Suburban Sanitary Sewer Replacement – Citizens Utilities-Mt. Prospect/Prospect Heights, IL

Provided complete sanitary sewer design and construction inspection for the replacement of approximately 10,000 LF of sewer main. This work was part of I&I studies that were performed and was one of the phases for implementation of the plan. The sanitary sewer was designed to replace leaking and damaged sewers with some sewers as deep as 20 feet. All design was reviewed with the impact to the residents in mind due to the sewer being in a residential area. Design included coordination with residents, cost estimates, and all required permitting.

Chicago Suburban I&I Manhole Rehabilitation – Citizen Utilities-Mt. Prospect, IL

This work included the design and construction for the rehabilitation of over 2,200 manholes in the Chicago Suburban Service area. The design included specific repairs to each manhole and the categorization of these repairs so that the project could be easily bid by contractors. All work was designed per an I&I study that was previously completed. Extensive coordination was completed with the contractor due to multiple crews working on the project to meet a tight construction schedule.

24" diameter storm sewers on Broadway – North Chicago, IL

The storm sewers were designed to serve a commercial development and alleviate flooding problems in the area. Project included topographic survey, engineering design, specification writing and construction observation and management.

