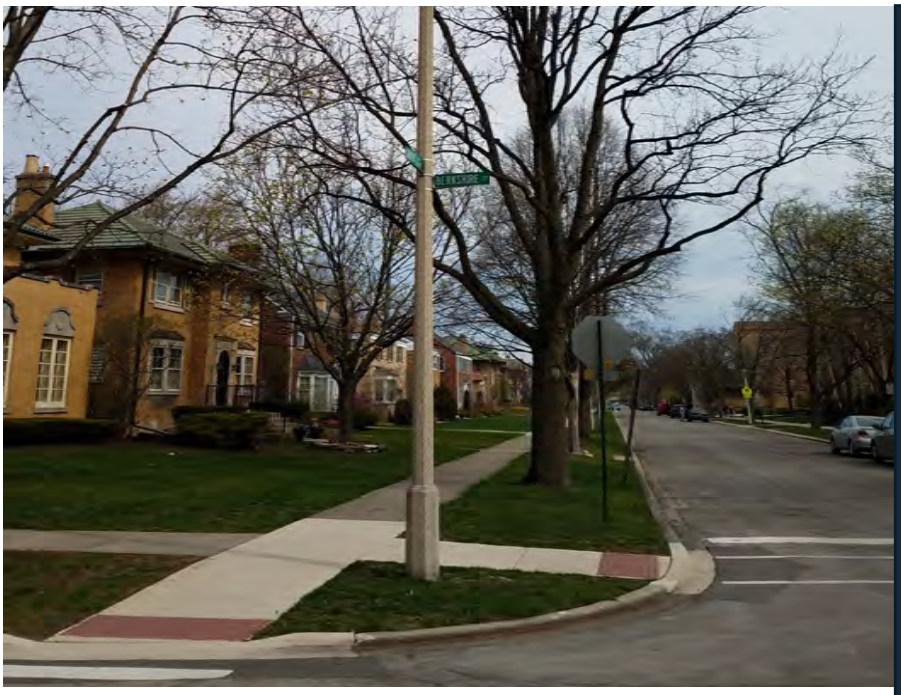
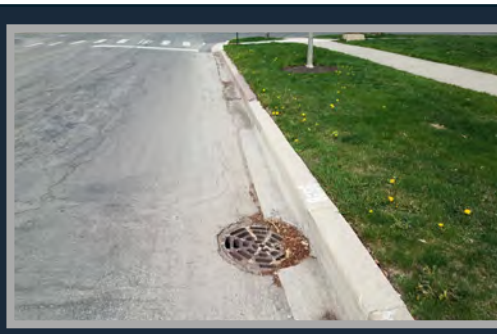
ENGINEERING
RESOURCE ASSOCIATES





Proposal for:

Professional Engineering Services for
Design and Construction Engineering for the
18-1 Water and Sewer Main Improvement Project

Prepared for:

Village of Oak Park
Engineering Division of the Public Works Department
201 South Blvd
Oak Park, IL 60302

Due: May 8, 2018 at 10 AM

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Certificate of Insurance
Village Forms
Compensation Schedule in
Separate sealed envelope

Primary Contact:

Brian Dusak, PE
Project Manager/Principal
3S701 West Avenue, Suite 150
Warrenville, IL 60555
P: 630-393-3060
F: 630-393-2152
BDusak@eraconsultants.com

ENGINEERING
RESOURCE ASSOCIATES

ENGINEERS | SCIENTISTS | SURVEYORS

May 8, 2018

Byron Kutz
Assistant Village Engineer
Village of Oak Park
201 South Blvd
Oak Park, IL 60302

Subject: Proposal for Professional Engineering Services for Design and Construction Engineering for the 18-1 Water and Sewer Main Improvement Project

Dear Byron:

Engineering Resource Associates, Inc. (ERA) is pleased to submit this proposal for the 18-1 Water and Sewer Main Improvement Project. ERA understands that the Village of Oak Park desires to engage the services of a professional engineering consultant to provide Phase I, II, and III engineering services for design and construction of utility and roadway improvements at two locations. This submittal has been prepared in accordance with the request for proposal, visits to the project location, and our experience on similar assignments.

Our proposed Phase II Project Manager and main point contact for this assignment will be Brian Dusak, PE. He has over 16 years of experience on similar Phase I-III engineering assignments including the 15-13 Water and Sewer Main Improvement Project for the Village of Oak Park, the Iroquois Court Sewer and Water Extensions Project for the City of Warrenville, and the Oak and Illinois Water Main Improvements and Western Avenue Roadway Reconstruction Project for the Village of Northbrook. He recognizes the importance of project documentation and effective communication and coordination with Village staff and residents. Brian will also serve as the Phase III Project Manager and part-time Resident Engineer for this assignment to maintain continuity as the project moves from the design phase into construction. Ravi Patil will serve as the Lead Resident Inspector and field contact for this project on a full-time basis. To further bridge the transition from Phase II to Phase III, Eric Wilde will serve dual roles as Project Engineer and a Resident Inspector. It is anticipated that Eric will assist Ravi on an as-needed basis in the field as project workload dictates.

We have reviewed the terms of the request for proposals and we hereby state that we have no objections to them. We also hereby state that the personnel named in this proposal will be available for the duration of the project at the indicated level of involvement, except where prevented by circumstances beyond our control.

We greatly appreciate the opportunity to submit this proposal and look forward to working with the Village of Oak Park. Please contact Brian should you have any questions or require additional information. He can be reached at 630-393-3060 ext. 21 or bdusak@eraconsultants.com.

Thank you.
Respectfully submitted,
ENGINEERING RESOURCE ASSOCIATES, INC.

Brian Dusak, PE
Project Manager/Principal

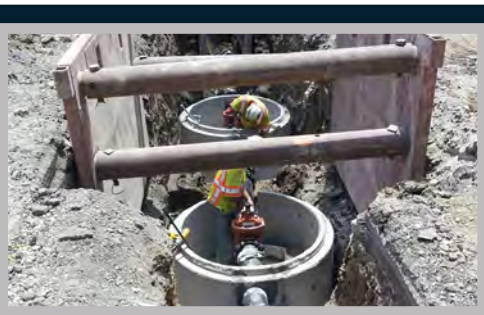
ENGINEERING
RESOURCE ASSOCIATES

COMPANY PROFILE

Engineering Resource Associates, Inc. (ERA) is a consulting firm providing civil engineering, structural engineering, environmental science and surveying services to clients throughout Illinois, Indiana and Wisconsin. Our diverse clientele includes municipalities, park districts, forest preserves, sanitary districts, county agencies and state agencies. We have more than 28 years of experience identifying and working with a wide variety of local, state and federal funding sources. Our staff of 40 professionals includes licensed engineers, structural engineers, surveyors, environmental scientists, certified floodplain managers and CAD/GIS specialists.

Our firm specializes in providing comprehensive services throughout the planning, design and construction phases of engineering and environmental assignments. The following is a partial listing of the primary types of projects that have been successfully completed by our firm.

- **Infrastructure Projects** - Sanitary Sewers, Storm Sewers, Water Mains and Pumping Stations
- **Construction** - Bidding Assistance, Construction Layout, Observation, IDOT Documentation and Construction Administration
- **Transportation Projects** - Roadways, Intersections, Utility Relocation / Designs, Permitting, Traffic Signals, Lighting, Streetscape, and Parking Facilities
- **Water Resource Projects** - Hydraulics/Hydrology Analysis, Master Plans, Watershed Studies, Ordinance/Guidance Manuals, Storm/ Sanitary Modeling, Floodplain Mapping, Stream Restoration, Levee Certification and CRS Services
- **Surveying and Mapping Projects** - Topographic Surveys, Boundary Surveys and GIS Services
- **Environmental Projects** - Wetland Facilities, Stream Bank Stabilization, Best Management Practices and Natural Area Restoration
- **Structural Projects** - Bridges, Retaining Walls, Dams, Levees and Buildings
- **Recreational Projects** - Riverwalks, Golf Courses, Regional Trails/ Paths, Community Parks, Dog Parks, and Sledding Hills
- **Site Development** - Municipal Facilities, Education, Healthcare, Commercial and Residential



Office Locations

Warrenville
3s701 West Avenue, Suite 150
Warrenville, IL 60555
Phone: (630) 393-3060

Chicago
10 S. Riverside Plaza
Suite 875
Chicago, IL 60606
Phone: (312) 474-7841

Champaign
2416 Galen Drive
Champaign, IL 61821
Phone: (217) 351-6268

Primary Contact

Brian Dusak, PE
Project Manager/Principal
3s701 West Avenue, Suite 150
Warrenville, IL 60555
Phone: (630) 393-3060
Fax: (630) 393-2152
Email: bdusak@eraconsultants.com

Illinois Department of Transportation
2300 South Dirksen Parkway / Springfield, Illinois / 62764

December 14, 2016

Subject: PRELIMINARY ENGINEERING
Consultant Unit
Prequalification File

John F. Mayer
ENGINEERING RESOURCE ASSOC., INC.
3S701 West Avenue
Suite 150
Warrenville, IL 60555

Dear John F. Mayer,

We have completed our review of your "Statement of Experience and Financial Condition" (SEFC) which you submitted for the fiscal year ending Dec 31, 2015. Your firm's total annual transportation fee capacity will be $9,600,000.

Your firm's payroll burden and fringe expense rate and general and administrative expense rate totaling 145.70% are approved on a provisional basis. The rate used in agreement negotiations may be verified by our Office of Quality Compliance and Review in a pre-award audit.

Your firm is required to submit an amended SEFC through the Engineering Prequalification & Agreement System (EPAS) to this office to show any additions or deletions of your licensed professional staff or any other key personnel that would affect your firm's prequalification in a particular category. Changes must be submitted within 15 calendar days of the change and be submitted through the Engineering Prequalification and Agreement System (EPAS).

Your firm is prequalified until December 31, 2016. You will be given an additional six months from this date to submit the applicable portions of the "Statement of Experience and Financial Condition" (SEFC) to remain prequalified.

Sincerely,
Maureen M. Addis
Acting Bureau Chief
Bureau of Design & Environment

SEFC PREQUALIFICATIONS FOR ENGINEERING RESOURCE ASSOC., INC.

CATEGORY	STATUS
Special Studies - Traffic Signals	X
Highways - Roads and Streets	X
Special Services - Surveying	X
Special Studies - Feasibility	X
Location Design Studies - Rehabilitation	X
Location Design Studies - Reconstruction/Major Rehabilitation	X
Special Services - Construction Inspection	X
Structures - Highway: Simple	X
Structures - Highway: Typical	X
Hydraulic Reports - Waterways: Complex	X
Special Studies - Location Drainage	X
Hydraulic Reports - Pump Stations	X
Hydraulic Reports - Waterways: Typical	X

X	PREQUALIFIED
A	NOT PREQUALIFIED, REVIEW THE COMMENTS UNDER CATEGORY VIEW FOR DETAILS IN EPAS.
S	PREQUALIFIED, BUT WILL NOT ACCEPT STATEMENTS OF INTEREST

ENGINEERING
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Key Staff Qualifications

Key Staff Summary

ERA's Transportation Design and Construction Team
ERA has assembled a highly qualified team of engineers, environmental scientists, surveyors and technicians to complete Phase I, II, and III engineering services for the 18-1 Water and Sewer Main Improvement Project. The team has specialized experience in the design and construction of similar roadway and utility improvement projects in municipalities with infrastructure similar in character to Village of Oak Park.

The following is a summary of the primary team members and the role they will serve on this assignment. A project team chart and resumes are provided on the following pages. We have also provided an outline of our key staff members who have served in similar roles on other related projects.

We hereby state that the personnel named in this proposal will be available for the duration of the project at the indicated level of involvement, except where prevented by circumstances beyond our control.

Key Personnel

Brian Dusak, PE | Project Manager / Resident Engineer / Principal
Experience: 16 years/16 at ERA
With more than 16 years of professional engineering experience, Brian Dusak will serve as the Project Manager and Part-Time Resident Engineer. He has served in a similar role on a wide-range of roadway projects for Village of Oak Park, DuPage County, City of Naperville, Village of Downers Grove, and the Village of Glen Ellyn. His experience includes water and sewer projects, reconstruction and rehabilitation of residential roadways, downtown streetscape enhancements, and bridge/culvert reconstruction. Brian is well-versed with the documentation required for a wide range of federal, state, and local funding sources. He is also familiar with all IDOT guidelines and procedures having completed the IDOT Documentation of Contract Quantities Course. During construction, we anticipate Brian will work on a part-time basis overseeing the project and the Resident Inspector work. Brian has served successfully in this dual role on past projects bringing an added level of value.

John Mayer, PE, CFM | Quality Assurance/Quality Control Manager / Project Director / Principal
Experience: 31 years/20 at ERA
He will bring more than 31 years of professional engineering experience with diverse solutions for a wide range of improvements including water and sewer installation projects, roadway improvements, stormwater master planning and development, drainage, roadway and intersection design, construction coordination and public involvement. He is responsible for coordinating all services with the Project Manager and reviewing all deliverables and primary correspondence. He is also responsible for proactively ensuring that adequate resources are allocated and available to make certain that the project is completed on time and on budget. In order to transform the vision of each project into reality, John encourages his team to search for innovative and cost-effective solutions.

ENGINEERING
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Key Staff Qualifications

Eric Wilde | Project Engineer/Resident Inspector
Experience: 3 years/3 at ERA
Eric Wilde will serve as Project Engineer and Resident Inspector. He will work under the direct supervision of the Project Manager and his Team Leader and report back with any issues that arise during the project. Eric has served in the design engineer role on several similar assignments for clients including Village of Burr Ridge, City of West Chicago and Village of Glencoe. Eric will be assigned as both Project Engineer and Resident Inspector to maintain continuity from design through construction.

Marty Michalisko, PE, CFM | Stormwater Engineer Lead
Experience: 18 years/18 at ERA
Marty Michalisko, PE, CFM, will serve as the Stormwater Engineer Lead. He has over 18 years of professional engineering experience. Marty has served as a Project Manager/Project Engineer on infrastructure, transportation, and recreational engineering projects for local municipalities, counties, and state agencies throughout Illinois. Marty has strong experience with water resource projects including H&H analysis, water quality enhancements, permit reviews, and the implementation of Best Management Practices (BMPs). He is well-versed with the collar counties' floodplain/floodway regulations and permitting requirements. He has extensive experience modeling closed conduit and natural waterways using both steady and unsteady hydraulic models. In addition, he has extensive experience in drainage investigations of flood-prone areas and developing innovative and cost-effective solutions.

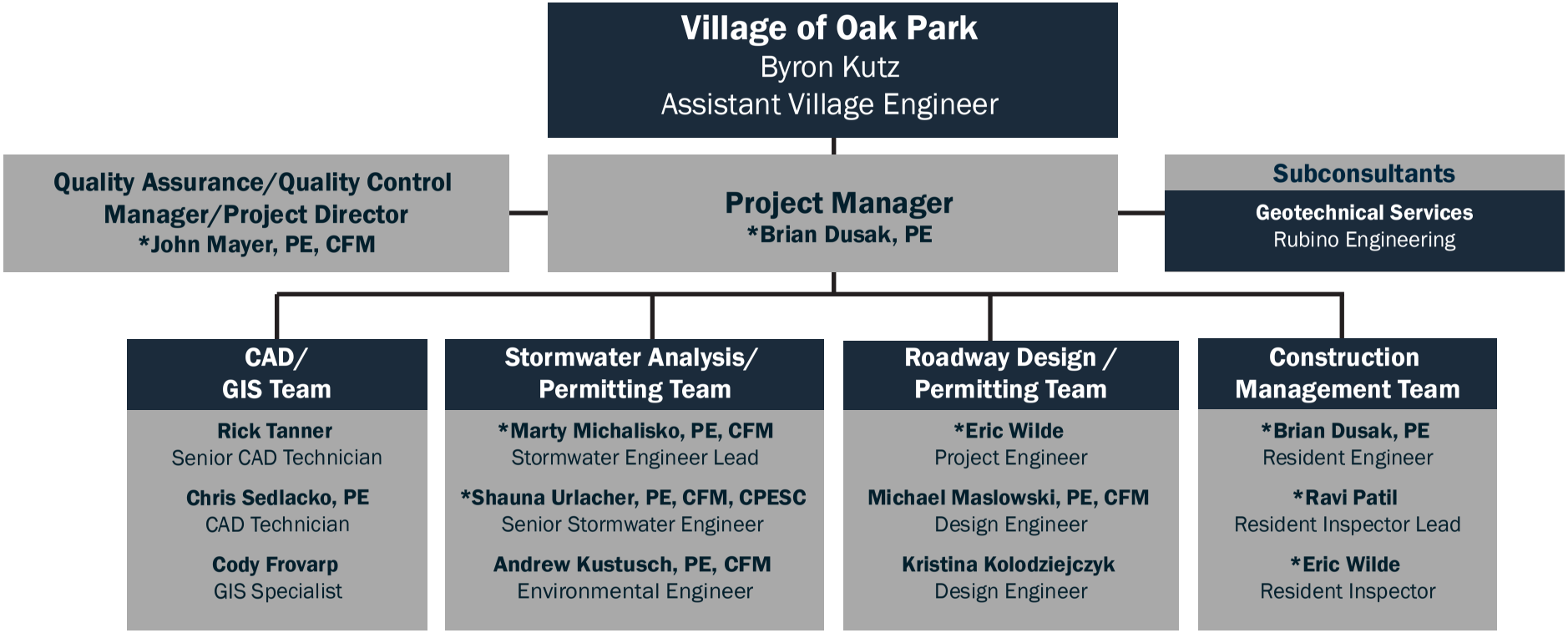
Shauna Urlacher, PE, CFM, CPESC | Senior Stormwater Engineer
Experience: 16 years/1 at ERA
Shauna Urlacher brings more than 16 years of experience and will serve as the Senior Stormwater Engineer on this project. Shauna has served as a stormwater engineer on transportation, drainage, and infrastructure engineering projects for local municipalities, counties, and state agencies throughout Illinois. Her recent experience includes projects for the Village of Northbrook, Village of Franklin Park, Village of Tinley Park, Cook County amongst others.

Ravi Patil | Resident Inspector Lead
Experience: 20 years/ 3 at ERA
Charlie has over 35 years of experience as a Resident Engineer and principal inspector including 3 years with ERA. He will serve as the primary field contact for the Village and contractor and manage the day-to-day construction activities. He will familiarize himself with the plans and specifications and act on behalf of the Village to help ensure the project is constructed in accordance with the contract documents. Daily activities include documenting construction activities, observing construction, coordinating with other resident inspectors, coordinating material testing and inspection and notifying the Project Manager and Village staff regarding issues that arise during construction. He has recently served in this role on Phase III work for the City of Warrenville, Village of Northbrook and Illinois Capital Development Board.

ENGINEERING RESOURCE ASSOCIATES

ORGANIZATIONAL CHART

Proposal for Professional Engineering Services for
Design and Construction Engineering for the
18-1 Water and Sewer Main Improvement Project



* Resumes Included

ENGINEERING
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Brian Dusak, PE

Project Manager/Resident Engineer/Principal

Project Experience:

15-13 Water and Sewer Main Improvements, Oak Park, IL - Project Manager for Phase I, II and III engineering services for the design and construction of approximately 2,500 feet of roadway along sections of Kenilworth, and Harvey Avenues within Village limits. Design and construction had an accelerated schedule so improvements along Kenilworth and Harvey may be constructed while school was not in normal session. Improvements included water main, sewer main and service replacement; curb, sidewalk and driveway patching and/or replacement; full depth pavement removal and replacement; parkway restoration; and other appurtenant work. Extensive permitting coordination was required with the Illinois Environmental Protection Agency and Metropolitan Water Reclamation District.

Iroquois Court Sewer & Water & Extensions Project, Warrenville, IL – Project Manager for Phase I, II and III engineering for the public sanitary sewer extension, water main extension and pavement reconstruction for the Iroquois Court neighborhood. The residences relied on individual wells and septic systems for service. The work includes approximately 1,300 feet of directionally drilled 8-inch diameter water main; 1,450 feet of open cut 8-inch diameter sanitary sewer; 1,600 feet of open cut 12-inch diameter storm sewer; and 5,300 square yards of full pavement reconstruction.

Water Main Replacements 2015, Wheaton, IL – Project Manager for Phase I and II engineering services for the replacement of water main at various locations throughout the City of Wheaton and the reconstruction of approximately 1,700 feet of roadway. The project includes approximately 5,400 feet of new water main to replace existing mains that have exceeded their useful service life. New main was installed within residential and commercial subdivisions and along major transportation corridors under County and State jurisdiction. Extensive multi-agency coordination was required with the City, IEPA, DuPage Division of Transportation and IDOT.

Oak-Illinois-Western Water Main Improvements and Western Avenue Roadway Reconstruction Project, Northbrook, IL - Project Manager for Phase I, II and III engineering services for the replacement of water main along Oak Avenue, Illinois Road and Western Avenue in the Village of Northbrook. Work also included complete reconstruction of approximately 3,100 feet of Western Avenue. Approximately 12,400 feet of new water main replaced the existing cast iron mains that had an extensive break history. The project corridor is lined with primarily residential properties and is also home to Wescott School on Western Avenue. Coordination with residents and District 30 staff was continuous throughout design and construction in an effort to minimize impacts to the school's schedule and operations.

Education/Certifications:

- Bachelor of Science, Civil Engineering University of Illinois – 2004
- PE - IL - 062-062144
- Documentation of Contract Quantities Course- December 2016 (16-12224)

Areas of Expertise:

- Transportation projects including roadway design and bridge construction
- Phase II design of storm sewer improvements, culvert crossing, detention basins, public ROW improvements
- Preliminary engineering and preparation of plans, specifications and estimates for governmental transportation and infrastructure projects
- Permitting process of federal, state and local permitting agencies
- Bike trail design by incorporating AASHTO and BDE criteria

Special Training:

- IDOT Traffic Signal and Street lighting Design
- IDOT ICORS Training

Years of Experience:

- 16 years, 16 with ERA

ENGINEERING
RESOURCE ASSOCIATES

Brian Dusak, PE

Project Manager/Resident Engineer/Principal

Project Experience Continued:

Roosevelt Road Water Main Improvements, Glen Ellyn, IL – Project Manager for Phase II design and Phase III construction engineering for the installation of approximately 1,600 feet of 8-inch diameter water main. The Village of Glen Ellyn currently owns and operates cast iron water mains with an extensive break history within easements along State right-of-way. Due to limited right-of-way along Roosevelt Road and the fact that IDOT would not allow the installation of utilities under their pavement, the Village and ERA coordinated with the developers of the property south of Roosevelt Road to secure the necessary easements to facilitate the installation of the new water main. In addition to providing a new, more reliable source of water for the Village, it will allow for new properties within the development to easily connect to in the future.

2015 Resurfacing and Street Maintenance Projects, Aurora, IL – Project Manager oversaw the construction observation services for several roadway projects that included 16.2 miles of neighborhood street resurfacing and 4.9 miles of MFT funded street resurfacing. Our team analyzed the contract documents and coordinated closely with the City prior to and throughout construction to help ensure activities were properly documented and the project was successfully completed in accordance with the contract documents, approved project budget, and schedule.

Brook Drive and Centre Circle Roadway Reconstruction, Downers Grove, IL – Project Manager for the Phase I and II engineering services for the reconstruction of over 5,800 lineal feet of HMA roadway located in an industrial/commercial district that includes the main entrance to the Finley Square Mall. The project also included the installation of new storm sewers and the construction of approximately 4,000 square feet of new sidewalk to meet PROWAG requirements. The project included extensive coordination with business owners to ensure access and continued delivery of materials.

Greenwood Basin Improvements Phase I, II, III, Glencoe, IL - Project Engineer for Phase I, II and III engineering services for this project. ERA studied chronic drainage and flooding problems at Greenwood Avenue and Oakdale Drive. Brian assisted with the design of new storm sewers, design of roadway restoration, preparation of final PS&E and bidding assistance. The project included the installation of new storm sewer and a new water main. Permits from IDNR, IEPA, and USACE were required as well as construction layout and full service construction inspection.

Madison Street STP Improvements, Burr Ridge, IL – Project Manager for Phase I, II, and III engineering services for a project which included 8,500 feet of hot-mix asphalt resurfacing, 1,000 feet of pavement widening, installation of curb and gutter, storm sewer, and verifying ADA compliance throughout the corridor. Extensive coordination with IDOT and FHWA was required for this federally-funded STP project.

Professional Experience:

- Engineering Resource Associates
  Project Manager /Project Engineer/
  Resident Engineer (2004-Present)
- Engineering Resource Associates
  Engineering Intern (2002, 2003)

Professional Affiliations:

- American Public Works Association
  Fox Valley Branch Education
  Committee Co-Chair
- Institute of Transportation Engineers
- Village of Mokena
  Site Plan and Architectural Review
  Committee & Resident Civil Engineer

Professional Awards

- American Public Works Association
  Chicago Metro Chapter
  2014 Donald C. Stone Award for
  Excellence in Education

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John Mayer, PE, CFM
Project Director/Principal

Project Experience:

Northbrook Stormwater Pilot Study, Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), IL – Project Manager led a Village-Wide 9800 acres Comprehensive Stormwater Pilot Study for the Village of Northbrook and surrounding unincorporated areas. This project includes the analysis of existing flooding conditions using EPA SWMM and an innovative program that assists in optimal solutions called Optimatics. The watershed included tributaries to the Chicago River, Skokie River and the Des Plaines River. Multiple Green infrastructure measures were evaluated in conjunction with public storage and storm sewer pipe. Public awareness, social media, and evaluation of public perspectives on flooding were significant aspects of the study.

Oak-Illinois-Western Water Main Improvements and Western Avenue Roadway Reconstruction Project, Northbrook, IL - Project Director for Phase I, II and III engineering services for the replacement of water main along Oak Avenue, Illinois Road and Western Avenue in the Village of Northbrook. Work will also include complete reconstruction of approximately 3,100 feet of Western Avenue. Approximately 12,400 feet of new water main will replace the existing cast iron mains that have an extensive break history. The project corridor is lined with primarily residential properties and is also home to Wescott School on Western Avenue. In addition to coordination with residents, design and construction will be discussed with District 30 staff in an effort to minimize impacts to the school's schedule and operations.

Western Avenue Roadway, Infrastructure and Streetscape Enhancements, Lake Forest, IL – Project Manager for surveying, preliminary and final design, and permitting and construction administration for stormwater and water main utility improvements and streetscape improvements along a 1-mile section of the Historic Downtown Business District. Streetscape elements include brick paving on roadway and sidewalk sections, decorative lighting, tree grates, landscape islands, and outdoor furniture. The project also included the realignment of a road section under the Union Pacific viaduct, special event electrical kiosks, and two new traffic signals.

Water Main Replacements 2015, Wheaton, IL – Project Director for Phase I and II engineering services for the replacement of water main at various locations throughout the City of Wheaton and the reconstruction of approximately 1700 feet of roadway. The project includes approximately 5,400 feet of new water main to replace existing mains that have exceeded their useful service life. New main will be installed within residential and commercial subdivisions and along major transportation corridors under County and State jurisdiction. Extensive multi-agency coordination is required with the City, IEPA, DuPage Division of Transportation and IDOT.

Education/Certifications:

- Bachelor of Science
  Civil Engineering
  University of Wisconsin–Milwaukee – 1986
- PE – IL – 062-047345
- PE – IN – PE10708044
- PE – WI – E27723-6
- Certified Floodplain Manager
  IL-06-00257
- Kane County Qualified Review Specialist – E-063
- Private pilot license

Areas of Expertise:

- Lead projects with various funding sources including: ARRA, ITEP, MFT, 319(h), IGIG, SAFETEA-LU, AASHTO, CMAP, STP, CMAQ, TCM and OSLAD
- Lead Designer for recreational trails, watershed management, transportation, street lighting, downtown streetscape, stormwater and infrastructure projects
- Hydraulics and hydrology design, permitting, and modeling knowledge
- VillageEngineer Review Consultant

Years of Experience:

- 31 years, 20 with ERA

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John Mayer, PE, CFM
Project Director/Principal

Project Experience Continued:

Weathersfield Way/Braintree Drive Storm Sewer Rehabilitation Project, Schaumburg, IL - Project Director for the analysis of an approximate 600-acre watershed using XPSWMM modeling. The purpose of the studywas to analyze several bypass storm sewer alternatives in order to minimize flooding at a major residential intersection. Several routing options and sewer sizes were analyzed to determine the most cost effective options. A high priority of the study was to reduce flows to existing storm sewers within side and rear yards of mature residential properties. Sewers in these areas are difficult to maintain due to impacts to mature trees, fences and landscaping. Trenchless technologies were explored to minimize private property impacts.

Iroquois Court Sewer & Water Extensions Project, Warrenville, IL – Project Director for Phase I, II and III engineering for the public sanitary sewer extension, water main extension and pavement reconstruction for the Iroquois Court neighborhood. These residences currently rely on individual wells and septic systems for service. The work includes approximately 1,300 feet of directionally drilled 8-inch diameter water main; 1,450 feet of open cut 8-inch diameter sanitary sewer; 1,600 feet of open cut 12-inch diameter storm sewer; and 5,300 square yards of full pavement reconstruction.

Phase I / II SACROW / Wingate Basin Improvements, Glen Ellyn, IL – Project Engineer for the reconstruction of roadways, storm sewers, water main and sanitary sewers along 28,500 feet of roadway within a residential neighborhood. Provided hydrologic and hydraulic analysis within a 260-acre site using PCSWMM modeling. The analysis led to a unique storm sewer overflow structure and overflow storage facility

Redmond Reservoir Hydrologic/Hydraulic Analysis, Bensenville, IL – Project Director for the Redmond Reservoir and its potential role in reducing upstream flooding problems and mitigating for future upstream conveyance improvements. Tasks completed were data gathering, field and bathymetric survey, base and preliminary design plans, Hydrologic/Hydraulic Analysis, Proposed Conditions Analysis, Engineer's Opinion of Probable Construction Costs, and Schedule and Permit/Approval & Grant Identification.

Morrison-Rockwood State Park Water and Dump Station Rehabilitation, Morrison, IL – Project Engineer tasks included for the design and analysis of the potable water supply. The project included the construction of a new dump station and septic field, drilling potable water wells, construction of water main, yard hydrants and drinking fountains. The project involved review coordination with CDB and IDNR.

Areas of Expertise Cont'd:

- Actively involved in various watershed groups: DRSCWC, LDRWC, LDGP.
- 10 years experience with traffic signal and street lighting operations and design for over 100 signalized intersections and numerous interconnect systems.

Professional Experience:

- Engineering Resource Associates
  Principal / Project Manager
  (1998-Present)
- City of Joliet
  Civil Engineer/Traffic Engineer
  (1987-1998)

Professional Affiliations:

- American Public Works Association
  Past President - Southwest Branch
- Association of State Floodplain Managers
- Institute of Transportation Engineers
- Illinois Association for Floodplain and Stormwater Management
- Lower Des Plaines Ecological Partnership
- Conservation Plainfield
- Lower DuPage River Watershed Coalition
- USGBC- US Green Building Council-
  Founding Chairman for South Suburban Branch
- DeKalb County Soil and Conservation District

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Marty Michalisko, PE, CFM

Principal/Stormwater Engineer Lead

Project Experience:

Terrace Court Improvements, Glencoe, IL – Project Manager leading a team of engineers to implement this storm sewer improvement project that was identified in a Phase I study. Storm sewer improvements consisted of 2210 linear feet of 12"-36" diameter RCP pipe of which two locations were installed through side and rear yards of local residential properties. A 24-inch sewer was jacked through private properties to avoid fences, sheds, trees, playsets, etc. ERA assisted in securing easements and prepared all plat work necessary to acquire easements. The project secured a funding partner with MWRD which required a reduction in anticipated pollutants through a hydrodynamic vortex separator. ERA also provided full time construction management services. Construction was partially funded by a MWRD grant.

15-13 Roadway, Water and Sewer Main Improvements, Oak Park, IL – Senior Stormwater Engineer provided Phase I, II, and III engineering services to the Village and improved the 8 inch watermain and provide a sewer model for Kenilworth. Marty completed a Sewer Sizing Analysis on the system. ERA completed Phase I, II, and III engineering services and the following tasks: Preliminary Engineering, Final Engineering, Construction Engineering, Construction Inspcetion/Observation, permitting, and project close out.

Palos and Green Bay Road Infrastructure, Ravine and Stormwater Improvements, Glencoe, IL – Project Manager (Phase I) Phase I and II services for roadway and storm sewer improvements to alleviate chronic drainage and flooding problems within a 150-acre basin tributary, Lake Michigan. Reported problems include structural flooding, yard flooding, and street flooding up to four-feet-deep. Most of the problems were related to undersized storm sewers and inadequate overflow routes. ERA's work included topographic survey, stormwater analysis using XPSWMM and GIS, design of new storm sewers and overland flow routes, design of roadway restoration, preparation of final PS&E, and bidding assistance.

SACROW / Wingate Basin Improvements, Glen Ellyn, IL – Project Engineer for the reconstruction of roadways, storm sewers, water main and sanitary sewers along 28,500 feet of roadway within a residential neighborhood. Provided hydrologic and hydraulic analysis within a 260-acre site using PCSWMM modeling and the analysis led to a unique storm sewer overflow structure and overflow storage facility.

Palos and Green Bay Road Infrastructure, Ravine and Stormwater Improvements, Glencoe, IL – Project Manager (Phase I) Phase I and II services for roadway and storm sewer improvements to alleviate chronic drainage and flooding problems within a 150-acre basin tributary, Lake Michigan. Reported problems include structural flooding, yard flooding, and street flooding up to four-feet-deep. Most of the problems were related to undersized storm sewers and inadequate overflow routes. ERA's work included topographic survey, stormwater analysis using XPSWMM and GIS, design of new storm sewers and overland flow routes, design of roadway restoration, preparation of final PS&E, and bidding assistance.

Education/Certifications:

- Bachelor of Science
  Civil Engineering
  University of Iowa – 2000
- Surveying Curriculum
  Southern Illinois University
  (Off-Campus) – 2006-2008
- PE – IL – 062-058762
- CFM – IL – 06-00260
- Kane County Qualified Review Specialist – E-221

Areas of Expertise:

- Stormwater/floodplain modeling
- Design of flood control facilities including storm sewer, storage facilities, culverts, channel improvements.
- HEC-2, HEC-RAS, FEQ, HEC-1, HEC-HMS, TR-20, Hydra, SWMM, PCSWMM, XPSWMM, HY-8, Pond Pack, Hydraflow, Optimizer
- Drainage investigations of flood prone areas and providing practical and cost-effective solutions
- Permitting process of federal, state, and local permitting agencies

Years of Experience:

- 18 years, 18 with ERA

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Marty Michalisko, PE, CFM

Principal/Stormwater Engineer Lead

Project Experience Continued:

North Dundee Relief Sewer, Glencoe, IL – Project Engineer for the Phase I, II, and III engineering services for the installation of a storm sewer designed to carry the 100-year storm through a residential neighborhood. The project required an IDOT permit and easements from some of the residents.

Stormwater Watershed Modernization Plan, Glencoe, IL – Project Manager supervising all phases of several stormwater management projects within the Village of Glencoe. Projects included the modernization of the village's stormwater master plan, recommendations of conveyance improvements to nine drainage basins, and final design of nine drainage basin improvement projects. Tasks included field hydraulic surveys, extensive hydrologic and hydraulic modeling using XPSWMM and XPSWMM 2D, alternatives analysis, preliminary design, final design, cost estimating, report preparation and construction administration. The modernization work included the recommendation of creative cost-effective solutions that have significantly improved flooding problems and water quality within the village. As a result of these recommendations, we have implemented $20 million of storm sewer improvements over 10 years.

Weathersfield Way/Braintree Drive Storm Sewer Rehabilitation Project, Schaumburg, IL - Project Manager leading the analysis of an approximate 600-acre watershed using XPSWMM modeling. The purpose of the study was to analyze several bypass storm sewer alternatives in order to minimize flooding at a major residential intersection. Several routing options and sewer sizes were analyzed to determine the most cost effective options. A high priority of the study was to reduce flows to existing storm sewers within side and rear yards of mature residential properties. Sewers in these areas are difficult to maintain due to impacts to mature trees, fences and landscaping. Trenchless technologies were explored to minimize private property impacts.

Prentiss Creek Subwatershed B Storm Sewer and Water Main Improvements, Downers Grove, IL – Water Resource Engineer for Phase I and Phase II engineering services for a new 48" storm sewer system throughout a residential neighborhood. The storm sewer was designed for a 10-year runoff capacity and tied into an existing storm sewer than was identified as a hydraulic restriction on the new system. To relieve the overburdened sewer, ERA performed a preliminary design of a flood control facility on adjacent park district property that doubled as a soccer field and seating area.

Glen Ellyn Road Underpass and Relief Storm Sewer, DuPage County DOT, IL – Project Manager in charge of a project team that evaluated a surcharging storm sewer system at an underpass on Glen Ellyn Road. The project team evaluated the flooding conditions using XPSWMM and proposed three alternatives to reduce the depth and frequency. The team completed preliminary and final design services for a 60-inch storm sewer and customized high capacity inlet structures.

Special Training:

- IDOT Construction Documentation and Highway Engineering Principles
- Haestad Methods Floodplain Mapping Design and Modeling
- ASCE Sponsored FEQ Modeling Course
- Optimizer Training Course

Professional Experience:

- Engineering Resource Associates Project Manager/Project Engineer (1999-Present)
- Village of Carol Stream Engineering Intern (1998)

Professional Affiliations:

- American Public Works Association Chicago Metro Chapter, Co-Chair Membership Committee, APWA Suburban Branch Past-President
- Illinois Association of Floodplain and Stormwater Management
- DuPage River Salt Creek Workgroup
- Chairman of DuPage County's Municipal Engineer Stormwater Management Group

ENGINEERING
RESOURCE ASSOCIATES

Shauna Urlacher, PE, CFM, CPESC

Senior Stormwater Engineer

Project Experience:

Stormwater Master Plan for Roberts Road Drainage Area, Metropolitan Water Reclamation District, Cook County, IL – Project Engineer for a stormwater study and master plan for a 12-square-mile area in the Cal-Sag Watershed of southern Cook County, including five separate sub-watersheds. Responsibilities included identifying private property solutions. The project goal is to identify and evaluate drainage and flooding problem areas within the study area and recommend alternatives that can provide a 100-year level of protection to all structures, including protection against basement flooding. The project includes high-level, conceptual modeling with HEC-RAS and XP-SWMM. One challenge was proper representation of the Lucas Ditch and Lucas Diversion Ditch sub-watersheds, as water crosses back and forth between the watersheds during flood events resulting in "fingers" of floodway that follow the streets through a residential neighborhood. Alternatives include traditional engineering approaches and creative green infrastructure and planning recommendations, such as creation of new green space along a corridor with high flood frequency, to provide public recreation and open space in a heavily urban / suburban area and remove the most likely-to-flood properties from the flooding area, with new high density housing elevated beyond the flood fringe. The stormwater master plan is unique in that it also seeks alternatives on private property. These alternatives included green infrastructure on residential properties, such as rain cisterns and rain gardens; underground storage on commercial, industrial and institutional properties; and redevelopment of vacant / underutilized properties to create additional opportunities for flood storage. The project involves public relations and community engagement to encourage the public to be part of the flooding solution, including use of green infrastructure on private properties to reduce stormwater runoff.

Keystone/Chartres Stormwater Management Project, Northbrook, IL – Project Manager responsible for coordination with the Village and Park District as well as preparation of final engineering plans and specifications. The project includes construction of a 36-inch bypass storm sewer and expansion of an existing detention basin on Park District property, providing an additional 3.36 acre-feet of detention volume. Soccer fields were raised and lowered to provide the additional storage volume, while balancing the earthwork on the park property. Additional infrastructure improvement includes watermain, pavement removal and replacement, bike path, sidewalk, and site restoration.

Heather Lane Drainage Improvements, Tinley Park, IL – Project Manager and Lead Design Engineer responsible for developing a design for structural flooding in a residential neighborhood that included storm sewer improvements and re-grading of several side and rear yards within a developed neighborhood. The design solution was coordination with the municipal staff and residents at each of the ten lots requiring re-grading.

Education/Certifications:

- Master of Engineering, Professional Practice, University of Wisconsin-Madison 2014
- Bachelor of Science
  Civil Engineering
  Montana Tech – 2002
- PE – IL – 062-060451
- CFM - IL 05-00201
- CPESC - 8047

Areas of Expertise:

- Drainage investigation of flood prone areas and providing practical and cost-effective solutions
- Permitting for federal, state, and local agencies
- Preparation of grant applications to provide funding for municipal stormwater projects including: IEPA Illinois Green Infrastructure Grants, Hazard Mitigation Grants and IKE Buyout Grants
- Stormwater/floodplain modeling ArcView 3D Analyst, HEC-GeoRAS, HEC-RAS, XP-SWMM, EPA-SWMM, Civil 3D, and HY-8

Years of Experience:

- 16 years / 1 with ERA

ENGINEERING
RESOURCE ASSOCIATES

Shauna Urlacher, PE, CFM, CPESC

Senior Stormwater Engineer

Project Experience Continued:

Woodlands Green Initiatives for Stormwater Management, Hinsdale, IL – Preparation of a conceptual plan and feasibility study to improve the stormwater management within an existing residential neighborhood. The project team worked closely with the Village staff and members of the Environmental and Public Services Committee to incorporate green techniques including rain gardens, permeable pavers and infiltration basins into the existing neighborhood in such a way that would be well received by the residents. The project included an overall concept plan for the entire neighborhood and detailed hydrologic/hydraulic modeling for one sub-basin. An XP-SWMM model was developed to size the proposed infrastructure and quantify results. A final report was prepared that compared the proposed green infrastructure approach and costs to a previous study that considered traditional infrastructure (large diameter storm sewers and underground detention with a pump station).

Freedom Park Site Design and Stormwater Management, Tinley Park Park District, Tinley Park, IL – Project Manager and Lead Design Engineer working with the Park District, Village and landscape architect to develop a site plan design for 20-acre development, which included roadways, parking lots, softball fields, watermain, sanitary sewer and stormwater detention. Coordination and permitting through IEPA for the watermain, sanitary sewer and erosion control as well as from MWRD for the expansion of an existing detention basin and design of an additional basin and coordination with the Army Corps of Engineers to demonstrate the adjacent jurisdictional wetland would not be impacted.

Summit Hill Jr. High School Site Development & Drainage, Architectural Resources Corporation, Frankfort, IL – Project Manager and Lead Design Engineer responsible for coordination with the architect, school district, park district, Village of Frankfort, Will County Land Use Department, IDOT and MWRD to develop a site plan design for 25-acre development. The project was a joint venture between the school district and park district, which included a new junior high school, softball fields, soccer field, running track, roadways, parking lots, watermain, sanitary sewer and stormwater detention

Cost Share Programs, Franklin Park, IL – Project Engineer responsible for developing and managing the Village's overhead sewer and rear yard drainage cost share programs. As part of the application process meetings were held with each applicant to identify the source and severity of flooding and develop a tailored solution for each applicant. In-home consultations were also provided to understand the problem and help identify a cost effective solution to reduce the occurrence of basement and yard flooding. Educational information was shared with the resident and assistance finding a contractor was provided.

Professional Experience:

- Engineering Resource Associates
  Project Manager/Project Engineer
  (2018-Present)
- V3 Companies
  Project Manager (2015)
- Smith LaSalle
  Village of Franklin Park
  Assistant Village Engineer (2013)
- Clark Dietz, Inc.
  Project Engineer (2008)
- Robinson Engineering
  Project Engineer (2003)

Professional Affiliations:

- Illinois Association of Floodplain and Stormwater Management - Stormwater Management Committee Chair
- American Public Works Association Suburban Branch - Community Outreach Committee Chair
- City of Countryside Plan Commission/Zoning Board of Appeals

ENGINEERING
RESOURCE ASSOCIATES

Ravi Patil
Resident Inspector Lead

Project Experience:

Iroquois Court Sewer & Water & Extensions Project, Warrenville, IL – Resident Engineer for the public sanitary sewer extension, water main extension and pavement reconstruction for the Iroquois Court neighborhood. These residences currently rely on individual wells and septic systems for service. The work includes approximately 1,300 feet of directionally drilled 8-inch diameter water main; 1,450 feet of open cut 8-inch diameter sanitary sewer; 1,600 feet of open cut 12-inch diameter storm sewer; and 5,300 square yards of full pavement reconstruction.

Oak-Illinois-Western Water Main Improvements and Western Avenue Roadway Reconstruction Project, Northbrook, IL – Resident Engineer for Phase I, II and III engineering services for the replacement of water main along Oak Avenue, Illinois Road and Western Avenue in the Village of Northbrook. Work will also include complete reconstruction of approximately 3,100 feet of Western Avenue. Approximately 12,400 feet of new water main will replace the existing cast iron mains that have an extensive break history. The project corridor is lined with primarily residential properties and is also home to Wescott School on Western Avenue. In addition to coordination with residents, design and construction will be discussed with District 30 staff in an effort to minimize impacts to the school's schedule and operations.

I-74 Salt Kettle Rest Area Improvements, Illinois Capital Development Board, IL – Resident Inspector for the abandonment of a 30 year old septic system for the Salt Kettle Rest Area located a long I-74 just west of Danville, Illinois. Project included a cost benefit evaluation to rehabilitate existing system or connect to public sanitary system. Project included the design and construction oversight for the installation of a new sanitary duplex lift station, over 10,000 ft of forcemain, electrical services upgrade, and the abandonment and restoration of the septic sewage treatment system. Permitting was required through IEPA and Utilities Inc. and coordination was facilitated with a new gas station development to save project costs.

West Branch DuPage Regional Trail, Forest Preserve District of DuPage County, IL - Resident Engineer for the construction of a 17,500 ft bicycle trail. The trail connects to the Geneva Spur of the Illinois Prairie Path in the Winfield Mounds Forest Preserve. It traverses through downtown Winfield and the West DuPage Woods Forest Preserve. ERA's services include data collection, topographic survey, environmental studies (PESA), drainage studies, hydraulic bridge report, public involvement, preparation of a Project Development Report for CE Group I, permitting and final engineering documents. ERA assisted the Forest Preserve in successfully securing both CMAQ and ITEP funding for this project. Phase II engineering went through the IDOT Letting process while Phase III will follow IDOT documentation requirements.

Education/Certifications:

- Bachelor of Science Construction Management & Engineering Technology Purdue University, Indiana- 2013
- Bachelor of Science, Accounting Purdue University, Indiana- 2000
- IDOT Construction Documentation Certification (17-12895)
- IDOT Erosion and Sediment Control Workshop Module I

Specialized Training:

- IDOT QC/QA Training Program
- IDOT Site Manager Software
- Construction Procedures 1
- Construction Procedures 2 Primavera (CM-13) Contract Management Software
- INDOT Certified Technician
- INDOT Site Manager Training
- Bridge Construction/Deck Repair
- Construction Earthworks
- Concrete Paving
- American Concrete Institute Program Level 1
- Nuclear Density Gauge
- Hot Mix Asphalt Level 1
- Aggregates/Soils

Years of Experience:

- 20 years, 3 with ERA

ENGINEERING
RESOURCE ASSOCIATES

Eric Wilde
Resident Inspector

Project Experience:

Terrace Court Improvements, Glencoe, IL – Design Engineer to implement this storm sewer improvement project that was identified in a Phase I study. Storm sewer improvements consisted of 2210 linear feet of 12"-36" diameter RCP pipe of which two locations were installed through side and rear yards of local residences. A 24 inch sewer was jacked through private properties to avoid fences, sheds, trees, playsets, etc. ERA assisted in securing easements and prepared all plat work necessary to acquire easements.

Oak-Illinois-Western Water Main Improvements and Western Avenue Roadway Reconstruction Project, Northbrook, IL – Design Engineer for Phase I, II and III engineering services for the replacement of water main along Oak Avenue, Illinois Road and Western Avenue in the Village of Northbrook. Work will also include complete reconstruction of approximately 3,100 feet of Western Avenue. Approximately 12,400 feet of new water main will replace the existing cast iron mains that have an extensive break history. The project corridor is lined with primarily residential properties and is also home to Wescott School on Western Avenue. In addition to coordination with residents, design and construction will be discussed with District 30 staff in an effort to minimize impacts to the school's schedule and operations.

Water Main Replacements 2015, Wheaton, IL – Design Engineer for Phase I and II engineering services for the replacement of water main at various locations throughout the City of Wheaton and the reconstruction of approximately 1700 feet of roadway. The project includes approximately 5,400 feet of new water main to replace existing mains that have exceeded their useful service life. New main will be installed within residential and commercial subdivisions and along major transportation corridors under County and State jurisdiction. Extensive multi-agency coordination is required with the City, IEPA, DuPage Division of Transportation and IDOT.

Roosevelt Road Water Main Improvements, Glen Ellyn, IL - Project Engineer for Phase II design and Phase III construction engineering for the installation of approximately 1,600 feet of 8-inch diameter water main. The Village of Glen Ellyn currently owns and operates cast iron water mains with an extensive break history within easements along State right-of-way. Due to limited right-of-way along Roosevelt Road and the fact that IDOT would not allow the installation of utilities under their pavement, the Village and ERA coordinated with the developers of the property south of Roosevelt Road to secure the necessary easements to facilitate the installation of the new water main. In addition to providing a new, more reliable source of water for the Village, it will allow for new properties within the development to easily connect to in the future.

Education/Certifications:

- Bachelor of Science
  Civil Engineering
  Southern Illinois University,
  Edwardsville - 2015
- IDOT, Documentation of
  Contract Quantities Course
  January 2016 (16-11373)

Areas of Expertise:

- Preliminary engineering and preparation of plans, specifications and estimates for governmental transportation and infrastructure projects
- Permitting process of federal, state and local permitting agencies

Special Training:

- IDOT ICORS Training

Years of Experience:

- 3 years, 3 with ERA

ENGINEERING
RESOURCE ASSOCIATES

Eric Wilde
Resident Inspector

Project Experience Continued:

Weathersfield Way/Braintree Drive Storm Sewer Rehabilitation Project, Schaumburg, IL - Design Engineer for the analysis of an approximate 600-acre watershed using XPSWMM modeling. The purpose of the study is to analyze several bypass storm sewer alternatives in order to minimize flooding at a major residential intersection. Several routing options and sewer sizes are being analyzed to determine the most cost effective options. A high priority of the study is to reduce flows to existing storm sewers within side and rear yards of mature residential properties. Sewers in these areas are difficult to maintain due to impacts to mature trees, fences and landscaping. Trenchless technologies are being explored to minimize private property impacts.

Crossen Ave and Oakton St Water Main Improvements. Elk Grove Village, IL – Project Engineer for Phase II design engineering services for the replacement of approximately 2,000 feet of 8-inch diameter water main with new 16-inch diameter water main for the Village of Elk Grove Village. Crossen Avenue is a heavily travelled corridor servicing commercial properties; therefore, provisions were incorporated into the design to allow for access to businesses for deliveries. Extensive coordination was required with multiple utility companies throughout the project area but especially along Oakton Street which included an 8-inch gas main and 12-inch high pressure liquid petroleum pipeline. A 130-foot long steel casing pipe was jacked through the intersection to minimize exposure to these utilities and to also allow for traffic to be maintained along Oakton Street.

2016 Stormwater Improvements, Glencoe, IL – Design Engineeri for Phase I and II engineering services for roadway and storm sewer improvements along 2,800 ft. of residential roadways extending from Elm Place to the East Diversion Ditch. The project was constructed to alleviate chronic flooding problems in the area.

Maple Lane and Armstrong Lane Water Main Improvements, Elk Grove Village, IL – Project Engineer for Phase II design engineering services for the replacement of approximately 2,700 feet of 6-inch diameter water main with new 12-inch diameter water main within the residential street corridors along Maple Lane and Victoria Lane. Design services began in early 2018 and were fast-tracked so the project could be advertised by mid-March 2018. A 100-foot long steel casing pipe was designed to be jacked under triple 10' x 4' box culverts under Elk Grove Boulevard and around several other utilities to allow for traffic to be maintained along Elk Grove Boulevard.

Greenwood/ Park Storm Sewer Improvements, Glencoe IL – Staff Engineer for the design of over 2,000 linear feet of storm sewer ranging in size from 18"-48". The storm sewer was designed to eliminate flow through undersized private property storm sewer and direct it into an appropriate sized public ROW sewer.

Professional Experience:

- Engineering Resource Associates
  Design Engineer/Resident Engineer/
  Inspector, (2016-Present)
- Alpine - An ITW Company
  Structural Engineering Intern, (2015)
- Engineering Resource Associates
  Engineering Intern, (2014)

Relevant Project Experience Team Summary

Project: 15-13 Roadway, Water and Sewer Main Improvements, Village of Oak Park, IL

Construction Cost: $1.9 Million (Est.)/$1.8 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Managed ERA staff members and served as point of contact to the Village for the entire project, performed design and construction tasks	388
Charlie Harrison	Resident Inspector	Construction oversight	630

Project: Iroquois Court Sewer and Water Extension and Pavement Reconstruction Project, City of Warrenville, IL

Construction Cost: $1.8 Million (Est.)/$1.6 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Coordinated and attended all project meetings, performed design and construction tasks	160
Eric Wilde	Project Engineer	Helped in overseeing design team members, performed design tasks, construction oversight	64
Ravi Patil	Resident Engineer	Construction oversight	915

Project: Terrace Court and Skokie Ridge Improvement Project, Village of Glencoe, IL

Construction Cost: $2.8 Million (Est.)/$2.4 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Marty Michalisko	Project Manager (Phase II)	Managed ERA staff members and served as point of contact for the Villageduring Phase II	654
Brian Dusak	Project Manager (Phase III)	Managed ERA staff members and served as point of contact for the Village during Phase III	422
Charlie Harrison	Resident Engineer	Construction oversight	1730

Relevant Project Experience Team Summary

Project: Harbor and Greenwood Basin Improvements, Village of Glencoe, IL

Construction Cost: $4 Million (Est.)/$4 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Managed ERA staff members and served as point of contact to the Village for the entire project, performed design tasks	280
Erin Pande	Ecological Services Director	Obtained all permits from IDNR, EPA, and USACE	20
Charlie Harrison	Resident Engineer	Construction oversight	1150

Project: Oak-Illinois-Western Water Main Improvements and Western Avenue Roadway Reconstruction Project, Village of Northbrook, IL

Construction Cost: $5.5 Million (Est.)/ $5.0 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Managed ERA staff members and served as point of contact to the Village for the entire project, performed design tasks	334
Eric Wilde	Project Engineer	Helped in overseeing design team members, performed design tasks, construction oversight	386
Chris Sedlacko	Design Engineer	Perform design tasks	118
Ravi Patil	Resident Engineer	Construction oversight	1,330

Project: Palos and Green Bay Road Infrastructure Ravine Improvements, Village of Glencoe, IL

Construction Cost: $1.6 Million (Est.)/$1.5 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Marty Michalisko	Project Manager	Managed ERA staff members and served as point of contact to the Village for the entire project	90
Brian Dusak	Project Manager/Senior Project Engineer	Helped in overseeing design team members, performed design tasks	88
Rod Beadle	Project Director	Provided QA/QC for the project	24
Steve Wegner	Project Engineer	Performed design engineering services	150

Relevant Project Experience Team Summary

Project: Forestview / Riverside Parkway Sanitary Sewer and Water Main Extensions, City of Warrenville, IL

Construction Cost: $1.6 Million (Est.)/$1.1 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Coordinated and attended all project meetings, performed design tasks	90
Steve Wegner	Senior Project Engineer / Resident Engineer	Helped in overseeing design team members, performed design tasks, construction oversight	430
Rod Beadle	QA/QC Manager	Provided QA/QC for the project	15

Project: Water Main Replacements 2015, City of Wheaton, IL

Construction Cost: $1.5 Million (Est.)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Coordinated and attended all project meetings, performed design tasks	60
Steve Wegner	Senior Project Engineer	Helped in overseeing design team members, performed	120
Rod Beadle	QA/QC Manager	Provided QA/QC for the project	4
Charlie Harrison	Resident Engineer	Construction oversight	550

Project: York Township Water Main Improvements Phase I, II and III, DuPage County, IL

Construction Cost: $3.6 Million (Est.)/$2.2 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Coordinated and attended all project meetings, performed design tasks	174
Steve Wegner	Senior Project Engineer	Helped in overseeing design team members, performed	580
Rod Beadle	QA/QC Manager	Provided QA/QC for the project	150

Relevant Project Experience Team Summary

Project: Elm Place Improvements, Village of Glencoe, IL **Project: Elm Place Improvements, Village of Glencoe, IL**

Construction Cost: $2.2 Million (Est.)/ $2.2 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Managed ERA staff members and served as point of contact to the Village for the entire project, performed design tasks	180
Rod Beadle	Project Director	Provided QA/QC for the project	20
Steve Wegner	Senior Project Engineer	Led team members throughout design	120
Charlie Harrison	Resident Engineer	Construction oversight	550

Project: 2013 Street Improvement Project, Village of Glen Ellyn, IL

Construction Cost: $2.1 Million (Est.)/$2.2 Million (Actual)

Primary Staff Member	Role	Responsibilities	Hours Assigned to Project
Brian Dusak	Project Manager	Managed ERA staff members and served as point of contact to the Village for the entire project, attended weekly meetings	140
Rod Beadle	Project Director	Provided QA/QC for the project	20
Steve Wegner	Resident Engineer/ Senior Project	Provided construction oversight	115
Dennis Clements	Resident Engineer	Provided construction oversight	1160

ENGINEERING
RESOURCE ASSOCIATES

Project Experience Summary

ERA has provided comprehensive Phase I, II and III engineering services for a wide variety of municipal roadway and infrastructure projects with similar elements to the Water and Sewer Main Improvements Project. Projects have included numerous project sites spread throughout towns and villages. Projects have also involved a wide variety of funding sources including IGIG grants, CDGB funds, ITEP funds, STP funds, MFT funds, special assessments, and local funds.

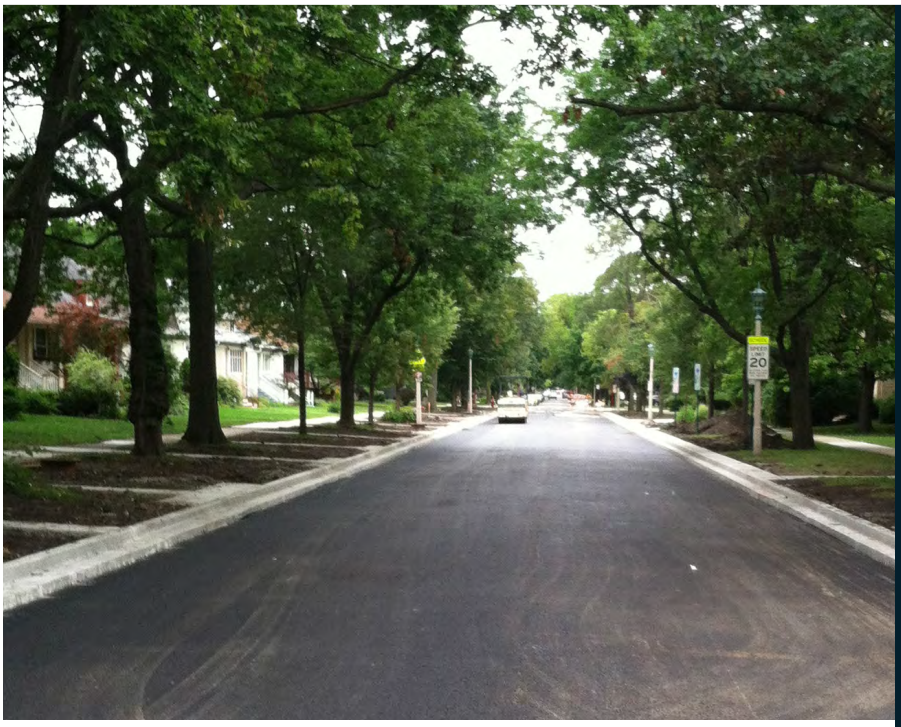
We have provided project profiles for the projects listed below on the following pages. We strongly encourage the Village of Oak Park to contact our references on each of these projects to verify our responsiveness and the quality of our work.

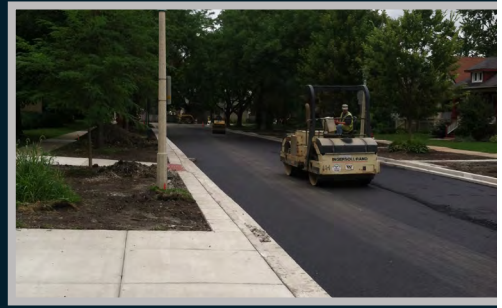
- 15-13 Roadway, Water and Sewer Main Improvements, Village of Oak Park, IL
- Iroquois Court Sewer and Water Extension and Pavement Reconstruction Project, Warrenville, IL
- Cook County Watershed Management Ordinance and Technical Reference Manual, Metropolitan Water Reclamation District of Greater Chicago, IL
- Terrace Courts Improvements, Village of Glencoe, IL
- Oak-Illinois-Western Water Main Improvements and Western Avenue Roadway Reconstruction Project, Village of Northbrook, IL
- Forestview Drive/Riverside Parkway Sanitary Sewer and Water Main Extension Projects, City of Warrenville, IL
- Knottingham Subdivision Road Reconstruction and Water Main Replacement, Village of Downers Grove, IL
- 2015 Water Main Replacement, City of Wheaton, IL
- 2013 Street Improvements, Village of Glen Ellyn, IL
- Palos/Fairview Stormwater Improvements, Village of Glencoe, IL
- York Township Water Main Improvements Phase I, II and III, DuPage County Department of Public Works, IL
- Brook Drive and Centre Circle Roadway Reconstruction Project, Village of Downers Grove, IL
- Harbor Basin Improvements, Village of Glencoe, IL

ENGINEERING
RESOURCE ASSOCIATES

15-13 Roadway, Water and Sewer Main Improvements

Village of Oak Park, IL





Project Summary

ERA provided Phase I, Phase II and Phase III engineering services for the design and construction of approximately 2,500 ft of roadway along sections of Kenilworth, Harvey and Taylor Avenues within Village limits. The design and construction had an accelerated schedule so improvements along Kenilworth and Harvey were constructed while school was not in normal session. Improvements included water main, sewer main and service replacement; curb, sidewalk and driveway patching and replacement; full depth pavement removal and replacement; parkway restoration; and other appurtenant work. Permitting coordination was required with the Illinois Environmental Protection Agency and Metropolitan Water Reclamation District. Extensive coordination was also required with adjacent schools and residents through face to face meetings as well as distribution of flyers during construction.

ERA Project Team

Brian Dusak, PE | Project Manager
John Mayer, PE, CFM | Project Director
Stephen Wegner, PE | Senior Project Engineer/Resident Engineer
Marty Michalisko, PE, CFM | Principal/Senior Stormwater Engineer
Charlie Harrison | Resident Inspector

Project Highlights:

- Accelerated Schedule
- Phase I, II, and III Engineering Services Provided
- Extensive Permitting Required through IEPA and MWRD

Project Reference:

Bill McKenna
Village Engineer
123 Madison Street
Oak Park, IL 60302
Phone: (708) 358-5728
Email: BMcKenna@oak-park.us

Engineer's Estimate: $1.9 Mill
Construction Cost: $1.8 Mill
Consulting Fee: $163,000
Start/Completion:
Summer 2015 / Fall 2015

ENGINEERING
RESOURCE ASSOCIATES

Iroquois Court Sewer and Water Extension and Pavement Reconstruction Project

City of Warrenville, IL

Project Summary

ERA provided Phase I, II and III engineering for the public sanitary sewer extension, water main extension and pavement reconstruction of the Iroquois Court neighborhood. The residence relied on individual wells and septic systems for service. The work included approximately 1,300 feet of directionally drilled 8-inch diameter water main; 1,450 feet of open cut 8-inch diameter sanitary sewer; 1,600 feet of open cut 12-inch diameter storm sewer; and 5,300 square yards of full pavement reconstruction.

Communication with the residents was of critical importance for this project. Our Resident Engineers and Inspectors on site had strong communication and coordination skills throughout the project. Their oversight on previous underground utility installation and roadway construction projects led to the successful completion of this project.

ERA Project Team

Brian Dusak, PE | Principal/Project Manager
John Mayer, PE, CFM | Principal/Project Director
Eric Wilde | Design Engineer
Ravi Patil | Resident Engineer
Andrew Johnson | Resident Inspector

Project Highlights:

- Pavement evaluation HMA vs. PCC
- Extensive construction staging plans
- Coordination with residents regarding access & utility connection locations
- ERA completed Phase I, II and III engineering

Project Reference:

Philip M. Kuchler, PE, CFM
Deputy Director of Public Works
City of Warrenville
3S258 Manning
Warrenville, IL 60555
Phone: (630) 836-3033
Email: pkuchler@warrenville.il.us

Engineers Estimate: $1.8 Million
Construction Cost: $1.6 Million
Consulting Fee: $160,000
Start/Completion Date:
Summer 2016/Fall 2016

ENGINEERING
RESOURCE ASSOCIATES

Cook County Watershed Management Ordinance and Technical Reference Manual

Metropolitan Water Reclamation District of Greater Chicago

Project Summary

ERA was retained to develop the first comprehensive, countywide watershed management ordinance for Cook County. The WMO regulates over 130 communities of diverse economic backgrounds and includes stormwater, floodplain, and water quality standards for new construction. Services include white paper research and coordination with stakeholders, watershed planning organizations and governmental agencies in the development of the ordinance. The ordinance was tailored to the unique physical and social geographic features of Cook County to ensure that future development would not contribute to flooding or water quality degradation. In addition the project included writing the ordinance technical guidance manual as an aid to the implementation of the ordinance.

ERA Project Team

Jon Green, PE, CFM | President/Project Director
John Mayer, PE, CFM | Principal/Project Engineer
Erin Pande, PWS, CFM | Ecological Services Director
Marty Michalisko, PE, CFM | Principal/Senior Water Resource Engineer

Project Highlights:

- ERA coordinated with stakeholders, watershed planning organizations and governmental agencies throughout development of the ordinance
- Over 130 communities are regulated by the WMO
- Includes stormwater, floodplain, and water quality standards

Project Reference:

William Sheriff
Supervising Civil Engineer
MWRDGC
111 East Erie Street
Chicago, IL 60611-3154
Phone: (312) 751-3169
Email: william.sheriff@mwrd.org

Consulting Fee:

$2.5 Million

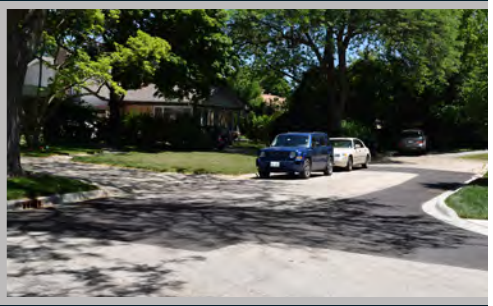
Completed:

2009

ENGINEERING
RESOURCE ASSOCIATES

Terrace Court Basin Improvements

Village of Glencoe, IL



Project Summary

ERA was responsible for implementing this storm sewer improvement project that was identified in a Phase I study. Storm sewer improvements consisted of 2210 linear feet of 12"-36" diameter RCP pipe of which two locations were installed through side and rear yards of residences. A 24 inch sewer was jacked through private properties to avoid fences, sheds, playsets, etc. ERA assisted in securing easements and prepared all plat work necessary to acquire easments. The project secured a funding partner with MWRD which required a reduction in anticipated pollutants through a hydrodynamic vortex separator. ERA also provided full time construction management services.

ERA Project Team

Marty Michalisko, PE, CFM | Principal/Project Manager
John Mayer, PE, CFM | Principal/Project Director
Brian Dusak, PE | Senior Project Engineer
Jennifer Loewenstein, PE, CFM, CPESC | Senior Project Engineer
Michael Maslowski, PE, CFM | Project Engineer
Eric Wilde | Design Engineer
Charlie Harrison |Resident Engineer

Project Highlights:

- MWRD grant
- Jacked 24" sewer through private properties
- Provided phase I, II, and III engineering services

Project Reference:

David Mau, PE
Director of Public Works
675 Village Court
Glencoe, IL 60022
(847) 835-4111
davidm@villageofglencoe.org

Construction Cost:

$1.2 Million

Consulting Fee:

$73,000

Completed:

2016

ENGINEERING
RESOURCE ASSOCIATES

Oak-Illinois-Western Water Main Improvements and Western Avenue Roadway Reconstruction Project

Village of Northbrook, IL

Project Summary

ERA is providing Phase I, II and III engineering services for the replacement of the water main along Oak Avenue, Illinois Road and Western Avenue in the Village of Northbrook. Work also included complete reconstruction of approximately 3,100 feet of Western Avenue. Approximately 12,400 feet of new water main replaced the existing cast iron mains that had an extensive break history. The project corridor is lined with primarily residential properties and is also home to Wescott School on Western Avenue. In addition to coordination with residents, design and construction was discussed with District 30 staff in an effort to minimize impacts to the school's schedule and operations. ERA completed detailed construction staging plans and value engineering.

ERA Project Team

Brian Dusak, PE | Principal/Project Manager
John Mayer, PE, CFM | Principal/Project Director
Marty Michalisko PE, CFM | Principal/Senior Project Engineer
Michael Maslowski, PE, CFM | Project Engineer
Eric Wilde | Design Engineer
Ravi Patil | Resident Engineer
Charlie Harrison | Resident Inspector
Erin Pande, PWS, CFM | Ecological Services Director
Andrew Kustusch, PE, CFM | Environmental Engineer
Chris Sedlacko, PE | Design Engineer/Resident Inspector

Project Highlights:

- Phase I, II, III engineering
- Accelerated schedule required due to MFT resurfacing project in the same area
- Water main corridor defined based on Village's Tree Presentation Ordinance
- Coordination with residents and Wescott School schedule

Project Reference:

Martin Sobanski, Project Manager
Village of Northbrook
655 Huehl Road
Northbrook, IL 60062
847-664-4118
martin.sobanski@northbrook.il.us

Construction Cost:

$5.5 million (est.)

Consulting Fee:

$287,000

Completed:

2017-2018 (est.)

ENGINEERING
RESOURCE ASSOCIATES

Forestview Drive/Riverside Parkway Sanitary Sewer and Water Main Extension Projects

City of Warrenville, IL

Project Highlights:

- Project includes 4,800 ft of water main; 2,200 ft of PVC sanitary sewer; 1,600 ft of sanitary main; and 800 ft of sanitary force main
- 1,600 ft of new 8" DIP water main
- 1,500 ft of Horizontally Directionally Drilled 8" HDPE water main, 1000 feet was drilled under the West Branch of the DuPage River
- A new lift station
- 1,600 ft of new 8" dia. Sanitary sewer
- 1,000 ft Horizontally Directionally Drilled 4" HDPE force main was drilled under the West Branch of the DuPage River
- Frac-out plan approved by DuPage County
- Storm water permit
- 4,000 square yards of grind and overlay pavement rehabilitation

Project Summary

ERA provided Phase I, II and III engineering services for the Forestview Drive/ Riverside Parkway sanitary sewer and water main extension project.The project included the design of a new sanitary sewer system, a lift station and a new water main for the residents who were served by individual wells and septic fields. In order to serve this subdivision, the water main and force main had to be installed beneath the West Branch of the DuPage River. After a geotechnical investigation was done to determine the depth of bedrock, it was determined the water main and the force main could be placed under the river by the use of Horizontal Directional Drilling. As part of the project, the existing pavement was rehabilitated with a grind and overlay. The project required a stormwater permit as well as a frac-out plan to be submitted to DuPage County.

ERA Project Team

Brian Dusak, PE | Project Manager
John Mayer, PE, CFM | Project Director
Mike Maslowski, PE, CFM | Project Engineer
Andrew Johnson | Resident Engineer

Project Reference:

Philip M. Kuchler, PE, CFM
Deputy Public Works Director
City of Warrenville
3S258 Manning
Warrenville, IL 60555
Phone: (630) 836-3033
Email: pkuchler@warrenville.il.us

Construction Cost:

$1.4 Million

Consulting Fee:

$187,000

Completed:

2015

ENGINEERING
RESOURCE ASSOCIATES

Knottingham Subdivision Road Reconstruction and Water Main Replacement

Village of Downers Grove, IL

Project Summary

ERA provided resident engineering services for the Knottingham Subdivision Road Reconstruction and Water Main Replacement Project for the Village of Downers Grove. The subdivision is a residential subdivision consisting of 230 homes. The project included the installation of approximately 1,200 feet of new storm sewers; 11,750 feet of water main replacement along with 34,000 square yards of full-depth HMA pavement replacement. The project was constructed in phases and required coordination with the post office regarding the location of the temporary mailboxes, the local school district to determine bus routes and residents regarding parking restrictions. This communication occurred via email and a weekly report posted on the Village of Downers Grove's website. The water main replacement required coordination with the Village of Darien to provide shut downs of their water mains which provided water to some of the homes in the subdivision.

ERA Project Team

Brian Dusak, PE | Project Manager
Rodney Beadle, PE, CFM | President / Project Director
Stephen Wegner, PE | Senior Project Engineer
Dennis Clements | Resident Engineer

Project Highlights:

- 11,750 LF ductile iron pipe
- New water services to 230 existing residences
- More than 1,200 LF of storm sewer lines
- 450 trees protected throughout project duration
- 34,000 SY of HMA pavement
- 24,000 LF of curb and gutter
- 7,000 SY of PCC driveways
- Correspondence with local school, buses, post office and emergency services
- Extensive coordination with DuPage County, Village of Downers Grove, Village of Darien and contractor
- Conducted phone and email correspondence with residents for conflict resolution

Project Reference:

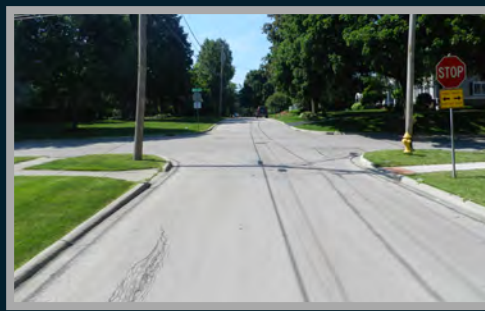
Scott Vasko, PE, Staff Engineer
Village of Downers Grove
5101 Walnut Avenue
Downers Grove, IL 60515
Phone: (630) 434-6804
Email: svasko@downers.us

Construction Cost: $4.8 Million
Consultant Fee: $175,000
Completed: 2013

ENGINEERING
RESOURCE ASSOCIATES

Water Main Replacement 2015

City of Wheaton, IL



Project Highlights:

- Project includes over 5,000 feet of 8” and 12” water main
- 600 feet of Horizontally Directionally Drilled water main
- 1,800 feet of pavement reconstruction
- IEPA permits

Project Reference:

Sarang A. Lagvankar, PE
Senior Project Engineer
City of Wheaton
303 West Wesley Street
Wheaton, IL 60187
Phone: (630) 260-2067
Email: Slagvankar@wheaton.il.us

Construction Cost:

$1.5 Million

Consulting Fee:

$50,000

Completed:

TBD

Project Summary

ERA provided Phase I and II engineering services for the replacement of over 5,000 feet of existing water mains that serve both residential and commercial properties. The roadway segments improvements took place under the city, county and state jurisdictions. A large percentage of the existing water main that was replaced was undersized and has exceeded its useful service life. The 12-inch water main on County Farm Road was replaced in kind and the 6-inch water mains on all other streets was replaced with 8-inch diameter water mains. While a majority of the water mains were installed via open-cut method, some areas were installed via Horizontal Directional Drilling (HDD) to minimize disturbance and disruption to traffic along major transportation corridors. As part of this project, approximately 1,800 feet of a rural section of roadway was reconstructed. A combination of storm sewer and ditch re-grading was implemented to alleviate drainage concerns.

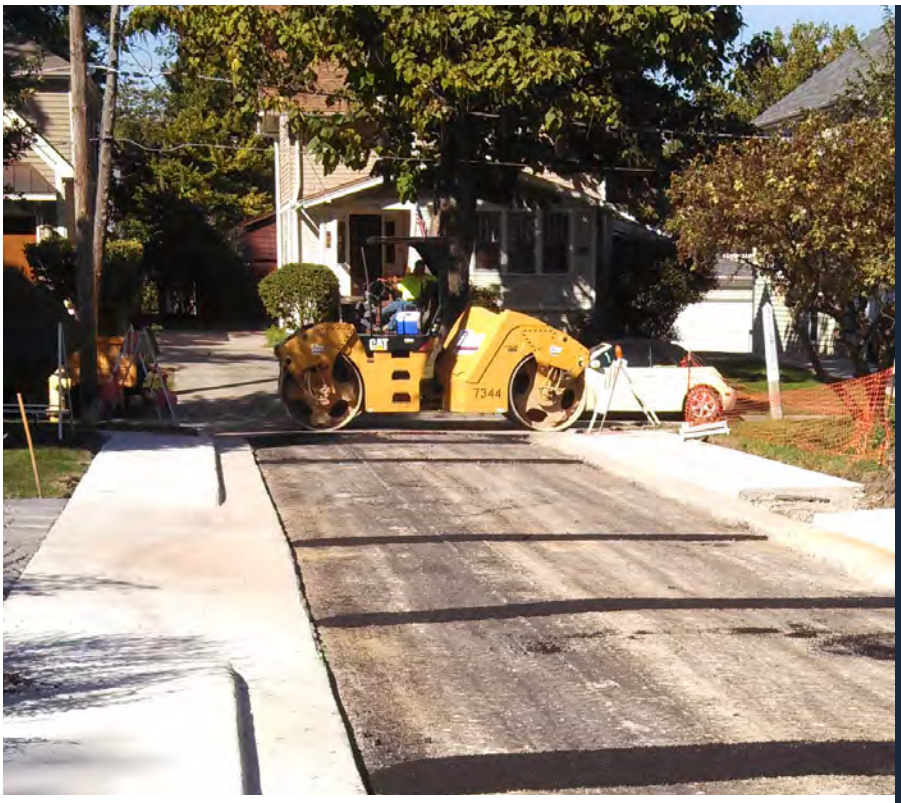
ERA Project Team

Brian Dusak, PE | Project Manager
John Mayer, PE, CFM | Project Director
Eric Wilde | Design Engineer
Rick Tanner | Senior CAD Technician
Brad Strohl, PLS | Surveyor

ENGINEERING
RESOURCE ASSOCIATES

2013 Street Improvement Project

Village of Glen Ellyn, IL



Project Summary

ERA served as the Resident Engineer for this project which consisted of the reconstruction and resurfacing of approximately 3,800 ft of roadway at various locations throughout the Village of Glen Ellyn. Work included constructing new storm sewer and water main, sanitary sewer service replacement, HMA pavement rehabilitation and reconstruction, parkway restoration and other appurtenant work.

The project required traveling to multiple job sites each day. Construction staging was of critical importance as work throughout the area needed to be coordinated around scheduled summer events. The partial reconstruction and enhanced resurfacing on Miller Court proved to be especially challenging due to the narrow right-of-way through this corridor.

ERA Project Team

Brian Dusak, PE | Principal/Project Manager
Rodney Beadle, PE, CFM | Project Director
Stephen Wegner, PE | Senior Project Engineer
Marty Michalisko, PE, CFM | Principal/Water Resource Engineer
Erin Pande, PWS, CFM | Environmental Specialist
Dennis Clements | Resident Engineer
Michael Maslowski, PE, CFM| Resident Inspector

Project Highlights:

- Resurfaced approximately 3,800 ft of roadway at various locations
- Extensive coordination was required for the improvements due to the restricted right-of-way along some of the streets

Project Reference:

Robert J. Minix, PE
Professional Engineer
30 South Lambert Road
Glen Ellyn, IL 60137
Phone: (630) 469-6756
Email: Bobm@glenellyn.org

Construction Cost: $2.1 Million

Consulting Fee: $180,000

Completion Dates: 2014

ENGINEERING
RESOURCE ASSOCIATES

Palos/Fairview Stormwater Improvements

Village of Glencoe, IL

Project Highlights:

- Study resulted in ERA completing both final design and construction administration for the recommended solution
- Watershed Analysis using XPSWMM with GIS interface produced clear, highly understandable graphics
- Identified the most cost-effective storm sewer upgrades and overland flow routes
- Detailed display of flooding problems and solutions enhanced communication with Village Board and citizens
- Jacking 200 ft of 36 inch storm sewer under the Union Pacific Railroad

Project Reference:

David Mau, PE
Director of Public Works
675 Village Court
Glencoe, IL 60022
(847) 835-4111
davidm@villageofglencoe.org

Construction Cost: $1.6 Million

Consulting Fee: $98,000

Completed: 2010

Project Summary

ERA was retained to study chronic drainage and flooding problems within a 50 acre basin tributary to a ravine which drains into Lake Michigan. Reported problems include structural flooding, yard flooding and street flooding. During moderate and severe events, street flooding ponded up to four-feet-deep. Most of the problems were related to undersized storm sewers and inadequate overflow routes. ERA's work included survey of rim and invert elevations, topographic survey of depressional areas and overflow routes, delineation of drainage basins and sub-basins, flow modeling for various storm events using XPSWMM and GIS, alternative analysis modeling and preparation of a summary design report including cost estimates, exhibits and recommendations. Phase II improvements included the design of 5000 ft of new relief storm sewers, ravine stabilization and better definition of overflow routes. The storm sewer design included jacking 200 ft of 36 inch storm sewer under the Union Pacific Railroad. Improvements also included ravine stabilization to accomodate increase in flows and velocities.

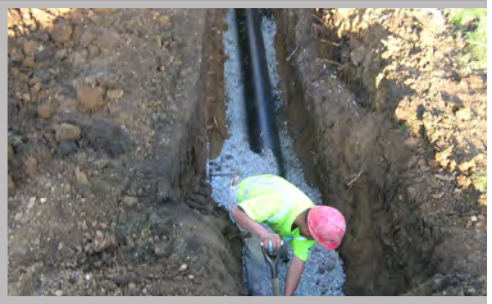
ERA Project Team

Marty J. Michalisko, PE, CFM | Principal / Project Manager
Rodney A. Beadle, PE, CFM | Project Director
Stephen R. Wegner, PE | Senior Project Engineer
Brian J. Dusak, PE | Project Engineer

ENGINEERING
RESOURCE ASSOCIATES

York Township Water Main Improvements Phase I, II and III

DuPage County Department of Public Works, IL



Project Highlights:

- Designed over 10,000 feet of 6" and 8" diameter water main to replace an existing system
- 940 LF of directional boring HDPE
- 470 LF of directional drilling DIP
- 40 LF of steel casing pipe jacked under creek
- Incorporated design changes for the use of HDPE and DIP water main to account for Poisson Forces and eliminate pullout
- Extensive coordination with DuPage County, York Township, Village of Lombard, York Center Elementary School and general contractor
- ERA prepared a combined stormwater permit for all projects
- Project was funded by a special assessment and a low interest IEPA loan

Project Reference:

Nicholas Kottmeyer, PE
Superintendent of Public Works
DuPage County
421 N. County Farm Road
Wheaton, IL 60187
Phone: (630) 407-6818
Email: nkottmeyer@dupageco.org

Construction Cost: $2.2 Million
Consulting Fee: $129,257
Completed: 2012

Project Summary

ERA provided Phase I, II, and III engineering services for the replacement of over 10,000 feet of an existing 6" and 8" water main system that served a residential neighborhood. ERA was also responsible for the coordination of additional portions of this project which included a transmission main and a 1.5 million gallon water tower. ERA delineated wetlands in the project areas and obtained a storm water permit for all three projects. The projects were funded by a special assessment and an IEPA low interest loan.

The York Township water main serves 78 residences and an elementary school located within the subdivision. The use of horizontal directional drilling of various water main materials were utilized to avoid wetlands and eliminate open cutting adjacent to the school. ERA addressed DuPage County staff concerns during design by presenting a welded connection between the DIP and the HDPE.

ERA Project Team

Brian J. Dusak, PE | Project Manager
Rodney A. Beadle, PE, CFM | Project Director
Stephen R. Wegner, PE | Senior Project Engineer
Erin R. Pande, PWS, CFM | Environmental Specialist
Dennis J. Clements | Resident Engineer
Andrew M. Johnson | Resident Engineer

ENGINEERING
RESOURCE ASSOCIATES

Brook Drive and Centre Circle Roadway Reconstruction Project

Village of Downers Grove, IL

Project Summary

ERA served the Village with Phase I and II engineering services for the reconstruction of over 5,800 lineal feet of HMA roadway located in an industrial/commercial district that includes the main entrance to the Finley Square Mall. The project also includes the installation of new storm sewers and the construction of approximately 4,000 square feet of new sidewalk to meet PROWAG requirements. The project includes extensive coordination with business owners to ensure access and continued delivery of materials.

ERA Project Team

Brian J. Dusak, PE | Project Manager
Rodney A. Beadle, PE, CFM | Project Director
Stephen R. Wegner, PE | Senior Project Engineer
Jeff Reckamp | Project Engineer
Marty J. Michalisko, PE, CFM| Principal / Water Resource Engineer

Project Highlights:

- Resurfaced approximately 3,800 ft of roadway at various locations
- Extensive coordination was required for the improvements due to the restricted right-of-way along some of the streets

Project Reference:

Scott Vasko, PE
Staff Engineer
Village of Downers Grove
(630) 434-6804
(630) 434-5495 (Fax)
svasko@downers.us

Construction Cost: $3.5 Million

Consulting Fee: $127,000

Completion Dates: 2014

ENGINEERING
RESOURCE ASSOCIATES

Harbor Basin Improvements

Village of Glencoe, IL

Project Highlights:

- ERA performed Phase I, II and III Engineering services for flood relief and solutions for chronic flooding
- ERA completed stormwater analysis using XPSWMM and GIS
- 4,000 ft of new storm sewers
- Jacked 250 ft of 42 inch storm sewer under the Union Pacific Railroad
- ERA worked closely with the Village and contractors on how to best construct the sewer system down 80 foot bluff.
- ERA worked closely with the Army Corps in designing environmental friendly energy dissipation prior to discharging to Lake Michigan.

Project Reference:

David Mau, PE
Director of Public Works
675 Village Court
Glencoe, IL 60022
(847) 835-4111
davidm@villageofglencoe.org

Engineer's Estimate: $1.85 Mill
Construction Cost: $1.75 Mill
Consulting Fee: $176,000
Start/Completion:
Spring 2013 / Fall 2013

Project Summary

ERA performed Phase I, II and III services for this important flood relief and roadway improvement project. The project alleviated chronic flooding problems that disrupted access to South School and residential structures in the area. The 30 acre watershed was drained by an 18" diameter sewer that discharged into an undersized sewer on Greenbay Road. ERA's work included topographic survey, storm water analysis using XPSWMM and GIS, design of new storm sewers, design of roadway restoration, the structural design of a reinforced concrete energy dissipater at the bottom of an 80 ft high bluff prior to releasing the water to Lake Michigan, preparation of final PS&E, bidding assistance, and construction management services.

The project included the installation of over 4,000 ft of new storm sewer ranging in diameter from 12" to 42" including jacking 250 ft of steel casing pipe to carry the 42" sewer under Green Bay Road and the Union Pacific Railroad. ERA worked closely with the Village to best access the steep bluff to construct the final sewer segment and outfall. Permits from IDNR, IDOT, EPA, UPRR and USACE were required.

ERA Project Team

Marty Michalisko, PE, CFM | Principal / Project Manager (Phase I)
Brian Dusak, PE | Project Manager (Phase II and III)
Jon Green, PE, CFM | President/Project Director
Jennifer Loewenstein, PE, CFM, CPESC | Senior Project Engineer
Erin Pande, PWS, CFM | Ecological Services Director
Charlie Harrison | Resident Engineer
Richard Tanner | CAD / GIS Technician
Andrew Johnson | Survey / Inventory

ENGINEERING
RESOURCE ASSOCIATES

Project Understanding

The Village of Oak Park has budgeted for water, sewer and roadway improvements in 2018/2019 along Clarence Avenue from Roosevelt Road to Harvard Street and Berkshire Street from Grove Avenue to Linden Avenue. Design and construction will be locally funded through the Village's water and sewer funds. Improvements are anticipated to generally include water main and sewer main replacement; curb, sidewalk and driveway patching and/or replacement; sidewalk installation; full depth pavement removal and replacement; parkway restoration; and other restoration work required for water, sewer and pavement work. Design services are tentatively slated to begin in June 2018 with construction services beginning in early October 2018 and ending in summer 2019.

Each project location has already been surveyed. The selected consultant will be responsible for using this survey and other reference materials provided by the Village to develop a set of contract bidding documents for the water, sewer and roadway improvements. The following streets are included as part of the Water and Sewer Main Improvement Project:

Street	From	To	Length (ft)
Clarence Avenue	Roosevelt Road	Harvard Street	1,300
Berkshire Street	Grove Avenue	Linden Avenue	1,075
Total Length:			**2,375**

An application has been submitted for the Berkshire work to MWRD for their Stormwater Management Phase II Flood Control Cost Sharing Program. If awarded the cost sharing grant, the selected consultant will be responsible for administering the design and construction of the project in accordance with MWRD's documentation requirements.

On Clarence Avenue, work will include replacing the existing local water main and combined sewer main, reconnecting sewer and water services at specified locations, replacing storm sewer, selective curb replacement, ADA upgrades to the corners at Harvard, full-depth pavement removal and replacement, sidewalk replacement to address deteriorated sidewalk and trip hazards, and parkway restoration. On Berkshire Street, work will include installing a new 24-30" diameter relief combined sewer main, full curb and gutter removal and replacement, upgrading ADA corners at all locations except Oak Park Avenue, new storm drainage, full-depth pavement removal and replacement, sidewalk replacement to address deteriorated sidewalk and trip hazards, and parkway restoration.

The engineer's estimate shall be coordinated closely with the Village early in the design process. The proposed project scope will need to be compared to the project budget to determine if the recommended 2019 budget should be amended to include additional funds for construction.

ENGINEERING
RESOURCE ASSOCIATES

Work Plan

ERA will provide design and construction engineering services for the Water and Sewer Main Improvement project in accordance with the following anticipated work plan.

PHASE I & II ENGINEERING

1) **Project Meetings and Coordination –** The following meetings are anticipated during Phases I and II of this project:

   a) Kick-Off Meeting - Meet with Village of Oak Park Engineering Division to review project design, details, standards, and develop project understanding. (1 meeting anticipated)
   b) Key Stakeholder Coordination Meetings – Meet with the Village's Parking & Mobility Services Department, businesses, schools, and others as required. (4 meetings anticipated)
   c) Progress Meetings - Meet with Village staff during design period to review Village comments at the 75%, 90% and final submittals and discuss relevant issues for each site. (3 meetings anticipated)
   d) Coordination meeting minutes will be emailed within 1 week of each meeting for review.

2) **Data Acquisition** - This task includes the acquisition of data available from various sources to aid in the inventory and delineation of existing conditions. The following items will be obtained:

   a) Aerial Photography and Topography from Village
   b) Existing survey and reference files provided by the Village
   c) Sewer tapes, inspection reports and manhole photos
   d) Village supplied soil borings and pavement cores for Berkshire Street
   e) GIS data from Village
   f) Aerial base tax maps
   g) Public utility atlases (storm, sanitary, water, electrical, etc.)
   h) Private utility atlases (gas, electric, telephone, cable T.V.)
   i) Cook County topographic mapping and GIS information
   j) Electronic copies of Village standard contract documents, details and specifications

3) **Field Survey Verification –** Topographic survey for the two project locations has already been completed. Survey information will be downloaded directly into our CAD based drafting system. This task will also include a walk-through of each site with the survey and/or preliminary plans provided by the Village to verify existing conditions. Additional survey work required for missing or incorrect data is not included in the scope of work.

4) **Base Plans and Profile Sheets** - Information compiled from the data acquisition and field survey verification tasks will be combined to update/produce base plans at a scale of 1" = 20' of the existing conditions. Base plan and profiles sheets will be prepared using our CAD based system conforming to Village of Oak Park graphic standards. Base plans will be submitted to the Village and private utility companies for review and comments.

5) **Geotechnical Engineering Services -** Our subconsultant, Rubino Engineering, will provide pavement core sampling and geotechnical engineering services for Clarence Avenue. Pavement cores will be taken at a rate of 3 cores per block for a total of 6 pavement cores. A total of 3 soil borings to depths slightly below the proposed sewer main will be taken as well. A geotechnical report will be provided to the Village upon completion of the work.

6) **Complete Streets Compliance Evaluation –** Project sites will be reviewed for compliance with the Village's Complete Streets policy and a Complete Street Checklist will be submitted for each project site at the time of our pre-final plan submittal.

7) **Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of contract documents in accordance with the Village of Oak Park and MWRD standards. Plans shall be prepared at 1:20 scale and profiles at 1:10 or 1:5 scale. It is anticipated that the plan set will include the following sheets.

i) Title, Location Plan and Index of Sheets	1 sheet
ii) Summary of Quantities	1 sheet
iii) Plan Notes, Pipe Specification & Legend	1 sheet
iv) Typical Sections	2 sheets
v) Drainage and Utility Plan & Profile Sheets	6 sheets
vi) Roadway Plan & Profile Sheets	6 sheets
vii) Pavement Marking Details	2 sheets
viii) Pavement Details	4 sheets
ix) Curb Ramp Details	2 sheets
x) Water & Sewer Details	4 sheets
xi) Traffic Control & Protection Details	6 sheets
Total	**34 sheets**

Specifications will be prepared in the format required for IDOT projects using Microsoft Office. Village standard contract documents will be provided. The specifications will reference IDOT Standard Specifications and the Village's standards. Bid documents and unit price bid item quantities will be included. Contract documents will include bid forms, notice to bidders, contract forms, bonding and insurance requirements and state and federal compliance requirements. PS&E will be submitted for review and approval at the 90% and final bid documents stages of completion. CAD design files and PDFs of the contract documents will also be provided to the Village.

This task also includes the preparation of a preliminary and final engineer's opinion of probable construction cost for the proposed improvements. They will be prepared using our extensive database of recent unit prices on similar projects in the area.

8) **Permitting –** ERA will prepare and submit permit applications for the following regulatory authorities. It is anticipated that permit fees will be paid for by the Village separately and outside of this contract.

a) IEPA – Water Mains

b) IDOT – Bureau of Traffic
c) MWRD Permits –It is anticipated that the proposed work will require a MWRD sewer permit for the sewer installation.

9) Bidding Assistance – ERA will provide bidding assistance services as follows.

a) Provide reproducible PS&E for distribution
b) Issue addenda if required
c) Respond to bidder questions
d) Attend bid opening
e) Prepare bid tabulations
f) Review contractor references and provide recommendation for construction contract award

PHASE III ENGINEERING

1) Meetings and Coordination - The following meetings and items are anticipated during the construction phase of this project:

a) Schedule, attend and lead a pre-construction meeting
b) Conduct regular weekly project meetings to review contractor progress, discuss project issues, coordinate with other contractors and review upcoming operations.
c) Coordinate projects with the residents and businesses.
d) Coordinate loss of parking impact with Village of Oak Park Parking Services Department and prepare parking passes for distribution.
e) Draft and prepare construction notification letters with Village supplied parking passes and stuff envelopes supplied by the Village for mailing by the Village of Oak Park.
f) Attend bi-weekly progress meetings with the Village.
g) Distribute meeting summaries to attendees and other interested parties.
h) Coordinate with testing consultant and contractor to ensure material testing conforms to contract requirements.
i) Present updates, both written and oral for Village staff, Village Board or other constituents.
j) Provide contact person and phone number to respond to resident inquiries and complaints
k) Provide 24 hour emergency contact information
l) Coordinate construction with various utilities, MWRD, and IDOT

2) Shop Drawings and Contractor Submittals

a) Record data received, maintain a file of shop drawings and catalog cut and material supply submissions and check administrative compliance with contract requirements.
b) Review shop drawings and other submittals from the project contractor for conformance with the requirements of the contract documents. Notify the Village of any deviations or substitutions. With the notification, provide the Village with a recommendation for acceptance or denial, and request direction from the Village regarding the deviation or substitution.
c) Review contractors list of proposed suppliers and subcontractors, IDOT certification and approved dump

sites.

d) Ensure that the contractor's materials conform to the requirements outlined in the contract documents.

3) Scheduling

a) Monitor contractor's progress, adherence to project schedule and communicate with Village staff.
b) Review schedule with contractor on a daily basis and require contractor to update schedule on a weekly basis as necessary.
c) Track and record working days as they are expended. It is anticipated that the contractor will work between the dates of October 1, 2018 and June 2019 to achieve substantial completion. Final construction completion is anticipated to be August 2019.

4) Construction Layout

a) The project contractor will be required to provide construction layout services.
b) ERA will confirm contractor layout coincides with plan call outs.

5) Construction Observation

a) Provide one part-time resident engineer and one full-time field engineer/inspector for the anticipated construction period between October 1, 2018 and June 2019. It is anticipated that the contractor will work full-time during the months of October through November 2018 and May through June 2019 (4 months total). It is anticipated that part-time observation by our field engineer/inspector will also be provided during the months of July and August 2019 to see the project through to final completion. For construction observation, we are anticipating an average of 2 hours per working day for our part-time Resident Engineer and 9 hours per working day for our full-time Resident Inspector.
b) Oversee proof rolling of subgrade prior to pavement construction to determine areas of unsuitable soil replacement.
c) Serve as the Village's liaison with the contractor primarily through the contractor's superintendent, public/private utilities and various jurisdictional agencies.
d) Review weekly progress, prepare a weekly summary to be approved by the Village and distributed to the interested parties.
e) Daily review and inspection of traffic and erosion control items including completion of a weekly barricade check report.
f) Maintain a database of names, addresses and telephone numbers of subcontractors, contractors, suppliers, and utility companies and other entities involved with the project.
g) Alert the Contractor's field superintendent when un-approved materials or equipment are being used and advise the Village of such occurrences.

6) Documentation – ERA will document construction activities in accordance with IDOT documentation procedures.

a) Track and measure contract pay item quantities using Inspector's Daily Reports.
b) Keep and maintain a daily diary summarizing contractor operations, coordination activities, weather,

project issues, etc.

c) Maintain a database of names, addresses and telephone numbers of subcontractors, contractors, suppliers, and utility companies and other entities involved with the project.
d) Collect and file material tickets.
e) Prepare weekly reports.
f) Fill out water service tap cards.
g) Submit project documentation to ERA office for use in reviewing contractor pay request.
h) Track contractor time and materials expended on extra work items.

7) Pay Request and Change Order Review

a) Review applications for payment and compare to documentation records on a monthly basis.
b) Forward recommendations for payment to Village staff.
c) Review change order documentation and justifications.
d) Forward change order recommendations to Village staff.

8) Project Close-Out

a) Prepare a list of items for correction by the contractor
b) Review testing results and incorporate into punch list
c) Work with Village staff to incorporate items into the punch list
d) Work with contractor to complete all punch list items in a timely, responsive manner
e) Prepare final payment with agreed upon quantity with the contractor
f) Conduct final inspection with Village representatives
g) Provide as-built drawings in CAD and PDF formats
h) Close all permits
i) Submit job box to the Village of Oak Park

Project Schedule

It is our understanding that the Village of Oak Park is anticipating the selection and approval of a preferred consultant by May 21, 2018. Design engineering is scheduled to begin on June 4, 2018 and be completed by August 10, 2018. Construction is scheduled to begin on October 1, 2018 and be substantially completed by June 2019. Final construction completion and project close-out is anticipated by August 2019. ERA has the staff and resources available to fully staff the project for the duration of design and construction to meet this deadline. If the project schedule or scope of services changes, we have additional staff and resources available to accommodate the project. Our experience on similar assignments and ability to shift staff and resources will contribute to the ultimate success of this project.

Required Forms

ERA has included the following required forms:

- ERA Certificate of Insurance
- Village of Oak Park Required Forms

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 08/08/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Traci Stoecker
Holmes Murphy and Associates - Peoria 311 S.W. Water Street Suite 211 Peoria, IL 61602-4108	PHONE (A/C, No, Ext): 800-527-9049 FAX (A/C, No): E-MAIL ADDRESS:

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
Engineering Resource Associates, Inc. 3S701 West Street, Suite 150 Warrenville, IL 60555	INSURER A : SENTINEL INS CO LTD	11000
	INSURER B : HARTFORD ACCIDENT & IND CO	22357
	INSURER C : XL SPECIALTY INS CO	37885
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER: 50557376** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC OTHER:			83SBWZQ6429	08/15/17	08/15/18	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 1,000,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			83UEGNM2684	08/15/17	08/15/18	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $ 10,000			83SBWZQ6429	08/15/17	08/15/18	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		83WEGLV8434	08/15/17	08/15/18	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
C	Professional Liability Claims Made			DPR9916796	08/15/17	08/15/18	Each Claim Aggregate	2,000,000 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

Engineering Resource Associates, Inc.

Attn: Kelly Pfarrer
3S701 West Ave., Suite 150

Warrenville, IL 60555
USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Oak Park

RESPONDENT CERTIFICATION

PROPOSAL SIGNATURE: _____

State of Illinois)

County of DuPage)

Brian Dusak ,

TYPE NAME OF SIGNEE

being first duly sworn on oath deposes and says that the Respondent on the above proposal is organized as indicated below and that all statements herein made on behalf of such Respondent and that this deponent is authorized to make them, and also deposes and says that he has examined and carefully prepared their bid proposal from the Contract Exhibits and Specifications and has checked the same in detail before submitting this proposal or bid; that the statements contained herein are true and correct.

Signature of Respondent authorizes the Village of Oak Park to verify references of business and credit at its option.

Signature of Respondent shall also be acknowledged before a Notary Public or other person authorized by law to execute such acknowledgments.

Dated 5-7-18

Engineering Resource Associates, Inc.
Organization Name

(Seal - If Corporation)

By _____
Authorized Signature

3s701 West Ave, ste150, Warrenville, IL 60555
Address

630-393-3060
Telephone

Subscribed and sworn to before me this 7 day of May, 2018.

_____
Notary Public

In the state of Illlinois.

My Commission Expires: April 14, 2021

OFFICIAL SEAL
SUSAN D. HELWIG
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 04/14/2021

(Fill Out Applicable Paragraph Below)

(a) Corporation

The Respondent is a corporation, which operates under the legal name of
Engineering Resource Associates, Inc
and is organized and existing under the laws of the State of
Illinois.

The full names of its Officers are:

President Jon Green
~~Secretary~~ Vice-President: John Mayer
~~Treasurer~~ Principals: Jacob Wolf, Marty Michalisko and Brian Dusak

The corporation does have a corporate seal. (In the event that this bid is executed by a person other than the President, attach hereto a certified copy of that section of Corporate By-Laws or other authorization by the Corporation which permits the person to execute the offer for the corporation.)

(b) Partnership

Name, signature, and addresses of all Partner

_____
_____
_____
_____

The partnership does business under the legal name of _____ which name is registered with the office of _____ in the county of _____ in the state of _____.

(c) Sole Proprietor

The Respondent is a Sole Proprietor whose full name is _____.
If the Respondent is operating under a trade name said trade name is _____ which name is registered with the office of _____ in the county of _____ in the state of _____.

Signed _____
Sole Proprietor

Oak Park

Attachment I. **RESPONDENT CERTIFICATION**

Engineering Resource Associates, Inc., as part of its bid on a contract for
(name of Respondent)

Professional Engineering Services for Design and Construction Engineering for the 18-1 Water and Sewer Main Improvement Project to the Village of Oak Park, hereby certifies that said Respondent is not barred from bidding on the aforementioned contract as a result of a violation to either Section 33E-3 or 33E-4 of Article 33E of Chapter 38 of the Illinois Revised Statutes or Section 2-6-12 of the Oak Park Village Code relating to "Bidding Requirements".

By: Brian Dusak
(Authorized Agent of Respondent)

Subscribed and sworn to
before me this 7 day
of May, 2018

(Notary Public)

OFFICIAL SEAL
SUSAN D. HELWIG
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 04/14/2021

Oak Park

Attachment II. **TAX COMPLIANCE AFFIDAVIT**

Brian Dusak, being first duly sworn, deposes and says:

that he/she is Principal of
(partner, officer, owner, etc.)

Engineering Resource Associates, Inc.
(bidder selected)

The individual or entity making the foregoing proposal or proposal certifies that he/she is not barred from entering into an agreement with the Village of Oak Park because of any delinquency in the payment of any tax administered by the Department of Revenue unless the individual or entity is contesting, in accordance with the procedures established by the appropriate revenue act, liability for the tax or the amount of the tax. The individual or entity making the proposal or proposal understands that making a false statement regarding delinquency in taxes is a Class A Misdemeanor and, in addition, voids the agreement and allows the municipality to recover all amounts paid to the individual or entity under the agreement in civil action.

By: Brian Dusak
Its: Principal

Engineering Resource Associates, Inc.
(name of bidder if the bidder is an individual)
(name of partner if the bidder is a partnership)
(name of officer if the bidder is a corporation)

The above statement must be subscribed and sworn to before a notary public.

Subscribed and sworn to before me this 7 day of May, 2018.

Notary Public's Signature

OFFICIAL SEAL
SUSAN D. HELWIG
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 04/14/2021

- Notary Public Seal -

Minority Business and Women Business Enterprises Requirements

The Village of Oak Park in an effort to reaffirm its policy of non-discrimination, encourages and applauds the efforts of bidders and subConsultants in taking affirmative action and providing Equal Employment Opportunity without regard to race, religion, creed, color, sex, national origin, age, handicap unrelated to ability to perform the job or protected veteran's status.

Reporting Requirements

The following forms must be completed in their entirety, notarized and included as part of the proposal document. Failure to respond truthfully to any question on the list or failure to cooperate fully with further inquiry by the Village of Oak Park will result in disqualification of your proposal.

Oak Park

Attachment III. ORGANIZATION OF BIDDING FIRM

Please fill out the applicable section:

A. Corporation:
The Consultant is a corporation, legally named Engineering Resource Associates, Inc. and is organized and existing in good standing under the laws of the State of Illinois. The full names of its Officers are:

President Jon Green

~~Secretary~~ Vice-President: John Mayer

~~Treasurer~~ Principals: Jacob Wolf, Marty Michalisko, and Brian Dusak

Registered Agent Name and Address: Engineering Resource Associates, Inc.
3s701 West Avenue, Suite 150, Warrenville, IL 60555

The corporation has a corporate seal. (In the event that this Bid is executed by a person other than the President, attach hereto a certified copy of that section of Corporate By-Laws or other authorization by the Corporation that permits the person to execute the offer for the corporation.)

B. Sole Proprietor:
The Consultant is a Sole Proprietor. If the Consultant does business under an Assumed Name, the

Assumed Name is _____, which is registered with the Cook County Clerk. The Consultant is otherwise in compliance with the Assumed Business Name Act, 805 ILCS 405/0.01, et. seq.

C. Partnership:
The Consultant is a Partnership which operates under the name _____

The following are the names, addresses and signatures of all partners:

_____ _____

_____ _____
Signature Signature

(Attach additional sheets if necessary.) If so, check here _____.

If the partnership does business under an assumed name, the assumed name must be registered with the Cook County Clerk and the partnership is otherwise in compliance with the Assumed Business Name Act, 805 ILCS 405/0.01, et. seq.

D. Affiliates: The name and address of any affiliated entity of the business, including a description of the affiliation: _____

_____
Signature of Owner

Attachment IV. Compliance Affidavit

I, Brian Dusak being first duly sworn on oath depose and state as follows:

(Print Name)

1. I am the (title) Principal of the Proposing Firm ("Firm") and am authorized to make the statements contained in this affidavit on behalf of the Firm.
2. The Firm is organized as indicated on Exhibit A to this Affidavit, entitled "Organization of Proposing Firm," which Exhibit is incorporated into this Affidavit as if fully set forth herein.
3. I have examined and carefully prepared this proposal based on the Request for Proposals and verified the facts contained in the proposal in detail before submitting it.
4. I authorize the Village of Oak Park to verify the Firm's business references and credit at its option.
5. Neither the Firm nor its affiliates[1] are barred from proposing on this project as a result of a violation of 720 ILCS 5/33E-3 or 33E-4 relating to bid rigging and bid rotating, or Section 2-6-12 of the Oak Park Village Code related to "Proposing Requirements".
6. The Proposing Firm has the M/W/DBE status indicated below on the form entitled "EEO Report."
7. Neither the Firm nor its affiliates is barred from agreement with the Village of Oak Park because of any delinquency in the payment of any debt or tax owed to the Village except for those taxes which the Firm is contesting, in accordance with the procedures established by the appropriate revenue act, liability for the tax or the amount of the tax. I understand that making a false statement regarding delinquency in taxes is a Class A Misdemeanor and, in addition, voids the agreement and allows the Village of Oak Park to recover all amounts paid to the Firm under the agreement in a civil action.
8. I am familiar with Section 13-3-2 through 13-3-4 of the Oak Park Village Code relating to Fair Employment Practices and understand the contents thereof; and state that the Proposing Firm is an "Equal Opportunity Employer" as defined by Section 2000(E) of Chapter 21, Title 42 of the United States Code Annotated and Federal Executive Orders #11246 and #11375 which are incorporated herein by reference. **Also complete the attached EEO Report or Submit an EEO-1.**
9. I certify that the Consultant is in compliance with the Drug Free Workplace Act, 41 U.S.C.A, 702.

[1] Affiliates means: (i) any subsidiary or parent of the bidding or contracting business entity, (ii) any member of the same unitary business group; (iii) any person with any ownership interest or distributive share of the bidding or contracting business entity in excess of 7.5%; (iv) any entity owned or controlled by an executive employee, his or her spouse or minor children of the bidding or contracting business entity.

Signature: _____ Printed Name Brian Dusak

Name of Business: Engineering Resource Associates, Inc. Your Title: Principal

Business Address: 3s701 West Avenue, ste150, Warrenville, IL 60555

(Number, Street, Suite #) (City, State & Zip)

Telephone: 630-393-3060 Fax: 630-393-2152 Web Address: www.eraconsultants.com

Subscribed to and sworn before me this 7 day of May, 2018.

_____

Notary Public

OFFICIAL SEAL
SUSAN D. HELWIG
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 04/14/2021

M/W/DBE STATUS AND EEO REPORT

1. Consultant Name: Engineering Resource Associates, Inc

2. Check here if your firm is:

   ☐ Minority Business Enterprise (MBE) (A firm that is at least 51% owned, managed and controlled by a Minority.)

   ☐ Women's Business Enterprise (WBE) (A firm that is at least 51% owned, managed and controlled by a Woman.)

   ☐ Owned by a person with a disability (DBE) (A firm that is at least 51% owned by a person with a disability)

   ☒ None of the above

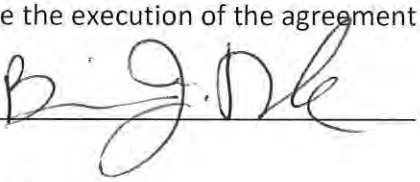
   [Submit copies of any W/W/DBE certifications]

3. What is the size of the firm's current stable work force?

   34 Number of full-time employees

   6 Number of part-time employees

4. Similar information will be requested of all subConsultants working on this agreement. Forms will be furnished to the lowest responsible Consultant with the notice of agreement award, and these forms must be completed and submitted to the Village before the execution of the agreement by the Village.

Signature: 

Date: 5-7-18

Failure to respond truthfully to any questions on this form, failure to complete the form or failure to cooperate fully with further inquiry by the Village of Oak Park will result in disqualification of this Bid. For assistance in completing this form, contact the Department of Public Works at 708-358-5700.

EEO REPORT

Please fill out this form completely. Failure to respond truthfully to any questions on this form, or failure to cooperate fully with further inquiry by the Village of Oak Park will result in disqualification of this proposal. An incomplete form will disqualify your proposal. For assistance in completing this form, contact the Purchasing Department at 708-358-5473.

An EEO-1 Report may be submitted in lieu of this report

Consultant Name Engineering Resource Associates, Inc
Total Employees 40

Job Categories	*Total Employees*	*Total Males*	*Total Females*	*Males*				*Females*				*Total Minorities*
				Black	*Hispanic*	*American Indian & Alaskan Native*	*Asian & Pacific Islander*	*Black*	*Hispanic*	*American Indian & Alaskan Native*	*Asian & Pacific Islander*	
Officials & Managers	4	4	0									
Professionals	22	15	7				2					2
Technicians	8	7	1				1					1
Sales Workers												
Office & Clerical	6	0	6									
Semi-Skilled												
Laborers												
Service Workers												
TOTAL	40	26	14				3					3
Management Trainees												
Apprentices												

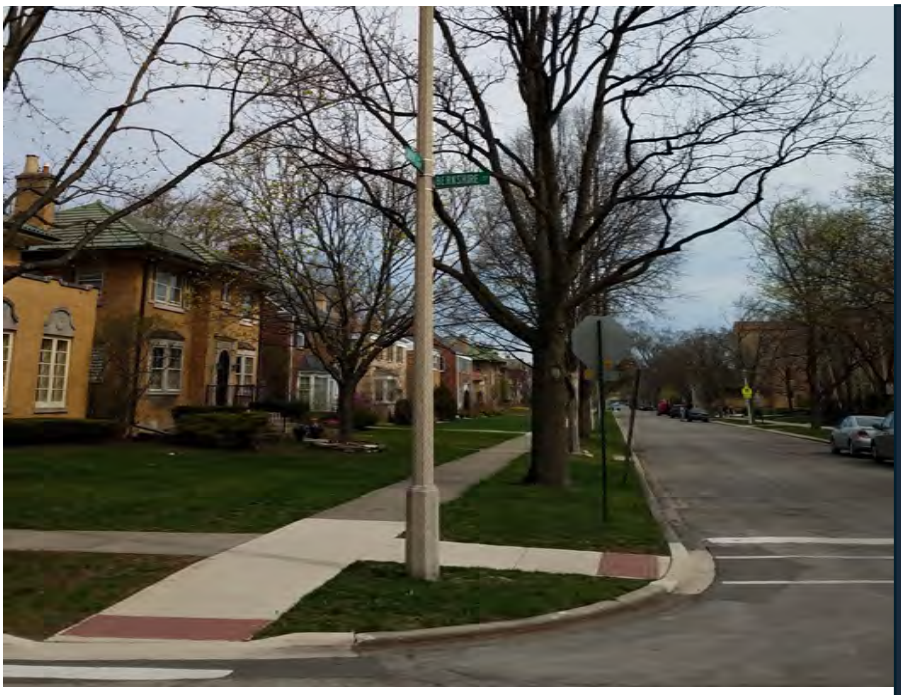
This completed and notarized report must accompany your Proposal. It should be attached to your Affidavit of Compliance. Failure to include it with your Proposal will be disqualify you from consideration.

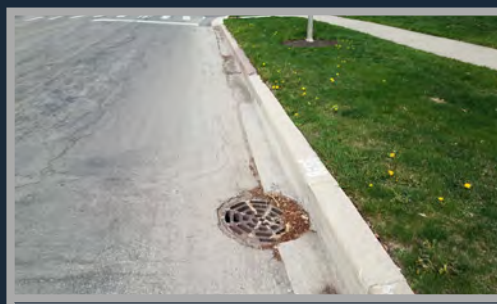
Brian Dusak *(Name of Person Making Affidavit)*, *being first duly sworn, deposes and says that he/she is the* Principal *(Title or Officer)*
of Engineering Resource Associates, Inc *and that the above EEO Report information is true and accurate and is submitted with the intent that it be relied upon. Subscribed and sworn to before me this* 7 *day of* May, *2018.*

(Signature)

5-7-18
(Date)

ENGINEERING
RESOURCE ASSOCIATES





Compensation Schedule for:

Professional Engineering Services for
Design and Construction Engineering for the
18-1 Water and Sewer Main Improvement Project

Prepared for:

Village of Oak Park
Engineering Division of the Public Works Department
201 South Blvd
Oak Park, IL 60302

Due: May 8, 2018 at 10 AM

Table of Contents:

ERA Cost Summary
2018 Hourly Rate Schedule
CECS Phase I and II Engineering
CECS Phase III Engineering

Primary Contact:

Brian Dusak, PE
Project Manager/Principal
3S701 West Avenue, Suite 150
Warrenville, IL 60555
P: 630-393-3060
F: 630-393-2152
BDusak@eraconsultants.com

ENGINEERING
RESOURCE ASSOCIATES

Cost Summary

Hours and Fees

ERA will provide Phase II and III engineering services in accordance with the scope of services included in the request for proposal and the addenda on a cost plus fixed fee, not to exceed basis. The direct overhead multiplier rate for this project will be 1.457 according to the IDOT prequalification. Direct costs, which are included in the not to exceed fee, will be charged at the actual rate incurred with no markup. The following is a summary of proposed hours and fees for this project.

Project	Estimated Hours	Estimated Fee
18-1 Water and Sewer Main Improvement Project		
Phase II – Final Engineering *(includes direct costs, subconsultants fees)*	406	$48,054.03
Phase III – Construction Engineering *(includes direct costs)*	1068	$138,309.08
Totals, not to exceed	**1,474**	**$186,363.11**

A detailed breakdown and summary of average hourly rates is included on the following page.

PAYROLL RATES

FIRM NAME Engineering Resource A **DATE** 05/08/18
PRIME/SUPPLEMENT
PSB NO. 18-1 Water and Sewer Main Improvement Project - Phase II

ESCALATION FACTOR **0.00%**

CLASSIFICATION	2018 CURRENT RATE	CALCULATED RATE
Professional Engineer VI	$70.00	$70.00
Professional Engineer V	$65.80	$65.80
Professional Engineer IV	$61.00	$61.00
Professional Engineer III	$52.00	$52.00
Professional Engineer II	$40.00	$40.00
Professional Engineer I	$32.00	$32.00
Structural Engineer VI	$70.00	$70.00
Structural Engineer III	$58.00	$58.00
Staff Engineer III	$31.50	$31.50
Staff Engineer II	$30.00	$30.00
Staff Engineer I	$28.00	$28.00
Engineering Technician V	$40.00	$40.00
Engineering Technician IV	$30.00	$30.00
Engineering Intern II	$16.00	$16.00
Engineering Intern I	$12.00	$12.00
Ecological Services Director	$45.00	$45.00
Environmental Specialist I	$25.50	$25.50
Professional Surveyor I	$43.00	$43.00
Surveyor III	$30.00	$30.00
Administrative Staff IV	$30.00	$30.00
Administrative Staff III	$25.00	$25.00
Administrative Staff II	$21.75	$21.75
		$0.00
		$0.00

COST PLUS FIXED FEE
COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039
REV 12/04

FIRM Engineering Resource Associates, Inc. **DATE** 05/08/18

PSB 18-1 Water and Sewer Main Improveme **OVERHEAD RATE** 1.457

PRIME/SUPPLEMENT **COMPLEXITY FACTOR** 0

PHASE II

DBE DROP BOX	ITEM	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	IN-HOUSE DIRECT COSTS (D)	FIXED FEE (E)	Outside Direct Costs (F)	SERVICES BY OTHERS (G)	DBE TOTAL (H)	TOTAL (B-G)	% OF GRAND TOTAL
	Project Meetings & Coord	10	556.00	810.09	250.00	205.72				1,821.81	3.79%
	Data Acquisition	14	554.00	807.18		204.98				1,566.16	3.26%
	Field Survey Verification	12	460.00	670.22		170.20				1,300.42	2.71%
	Base Plans & Profile She	7	325.00	473.53		120.25				918.78	1.91%
	Geotechnical Engineering	6	230.00	335.11		85.10		3,700.00		4,350.21	9.05%
	CSC Evaluation	11	389.00	566.77		143.93				1,099.70	2.29%
	90% PS&E	208	7,990.00	11,641.43		2,956.30				22,587.73	47.00%
	Final PS&E	72	2,697.00	3,929.53		997.89				7,624.42	15.87%
	Permitting	46	1,630.00	2,374.91		603.10				4,608.01	9.59%
	Bidding Assistance	20	770.00	1,121.89		284.90				2,176.79	4.53%
	Subconsultant DL					0.00				0.00	0.00%
	TOTALS	406	15,601.00	22,730.66	250.00	5,772.37	0.00	3,700.00	0.00	**48,054.03**	100.00%

DBE 0.00%

DBE

PREPARED BY THE AGREEMENTS UNIT

Printed 5/8/2018 8:29 AM

AVERAGE HOURLY PROJECT RATES

FIRM Engineering Resource Associates, Inc.
PSB 18-1 Water and Sewer Main Improvement Project - Phase II
PRIME/SUPPLEMENT

DATE 05/08/18

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			Project Meetings & Coordi			Data Acquisition			Field Survey Verification			Base Plans & Profile Shee			Geotechnical Engineering		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	70.00	7	1.72%	1.21	2	20.00%	14.00												
Professional Engineer V	65.80	0																	
Professional Engineer IV	61.00	18	4.43%	2.70				2	14.29%	8.71				1	14.29%	8.71			
Professional Engineer III	52.00	54	13.30%	6.92	8	80.00%	41.60	4	28.57%	14.86	4	33.33%	17.33	2	28.57%	14.86	2	33.33%	17.33
Professional Engineer II	40.00	0																	
Professional Engineer I	32.00	12	2.96%	0.95															
Structural Engineer VI	70.00	0																	
Structural Engineer III	58.00	0																	
Staff Engineer III	31.50	12	2.96%	0.93							8	66.67%	21.00				4	66.67%	21.00
Staff Engineer II	30.00	0																	
Staff Engineer I	28.00	136	33.50%	9.38				8	57.14%	16.00									
Engineering Technician V	40.00	164	40.39%	16.16										4	57.14%	22.86			
Engineering Technician IV	30.00	0																	
Engineering Intern II	16.00	0																	
Engineering Intern I	12.00	0																	
Ecological Services Director	45.00	0																	
Environmental Specialist I	25.50	0																	
Professional Surveyor I	43.00	0																	
Surveyor III	30.00	0																	
Administrative Staff IV	30.00	0																	
Administrative Staff III	25.00	3	0.74%	0.18															
Administrative Staff II	21.75	0																	
		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		406	100%	$38.43	10	100.00%	$55.60	14	100%	$39.57	12	100%	$38.33	7	100%	$46.43	6	100%	$38.33

PREPARED BY THE AGREEMENTS UNIT

AVERAGE HOURLY PROJECT RATES

FIRM Engineering Resource Associates, Inc.
PSB 18-1 Water and Sewer Main Improvement Project - Phase II
PRIME/SUPPLEMENT

DATE 05/08/18

SHEET 2 **OF** 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	CSC Evaluation			90% PS&E			Final PS&E			Permitting			Bidding Assistance					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	70.00				2	0.96%	0.67	1	1.39%	0.97	2	4.35%	3.04						
Professional Engineer V	65.80																		
Professional Engineer IV	61.00	1	9.09%	5.55	8	3.85%	2.35	2	2.78%	1.69	2	4.35%	2.65	2	10.00%	6.10			
Professional Engineer III	52.00	2	18.18%	9.45	16	7.69%	4.00	4	5.56%	2.89	6	13.04%	6.78	6	30.00%	15.60			
Professional Engineer II	40.00																		
Professional Engineer I	32.00										12	26.09%	8.35						
Structural Engineer VI	70.00																		
Structural Engineer III	58.00																		
Staff Engineer III	31.50																		
Staff Engineer II	30.00																		
Staff Engineer I	28.00	8	72.73%	20.36	60	28.85%	8.08	24	33.33%	9.33	24	52.17%	14.61	12	60.00%	16.80			
Engineering Technician V	40.00				120	57.69%	23.08	40	55.56%	22.22									
Engineering Technician IV	30.00																		
Engineering Intern II	16.00																		
Engineering Intern I	12.00																		
Ecological Services Director	45.00																		
Environmental Specialist I	25.50																		
Professional Surveyor I	43.00																		
Surveyor III	30.00																		
Administrative Staff IV	30.00																		
Administrative Staff III	25.00				2	0.96%	0.24	1	1.39%	0.35									
Administrative Staff II	21.75																		
TOTALS		11	100%	$35.36	208	100%	$38.41	72	100%	$37.46	46	100%	$35.43	20	100%	$38.50	0	0%	$0.00

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PAYROLL RATES

FIRM NAME Engineering Resource A **DATE** 05/08/18
PRIME/SUPPLEMENT
PSB NO. 18-1 Water and Sewer Main Improvement Project - Phase III

ESCALATION FACTOR **0.00%**

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Professional Engineer VI	$70.00	$70.00
Professional Engineer V	$65.80	$65.80
Professional Engineer IV	$61.00	$61.00
Professional Engineer III	$52.00	$52.00
Professional Engineer II	$40.00	$40.00
Professional Engineer I	$32.00	$32.00
Structural Engineer VI	$70.00	$70.00
Structural Engineer III	$58.00	$58.00
Staff Engineer III	$31.50	$31.50
Staff Engineer II	$30.00	$30.00
Staff Engineer I	$28.00	$28.00
Lead Resident Inspector	$43.50	$43.50
Engineering Technician IV	$30.00	$30.00
Engineering Intern II	$16.00	$16.00
Engineering Intern I	$12.00	$12.00
Ecological Services Director	$45.00	$45.00
Environmental Specialist I	$25.50	$25.50
Professional Surveyor I	$43.00	$43.00
Surveyor III	$30.00	$30.00
Administrative Staff IV	$30.00	$30.00
Administrative Staff III	$25.00	$25.00
Administrative Staff II	$21.75	$21.75
		$0.00
		$0.00

COST PLUS FIXED FEE
COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039
REV 12/04

FIRM Engineering Resource Associates, Inc. **DATE** 05/08/18

PSB 18-1 Water and Sewer Main Improveme **OVERHEAD RATE** 1.457

PRIME/SUPPLEMENT **COMPLEXITY FACTOR** 0

PHASE III

DBE DROP BOX	ITEM	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	IN-HOUSE DIRECT COSTS (D)	FIXED FEE (E)	Outside Direct Costs (F)	SERVICES BY OTHERS (G)	DBE TOTAL (H)	TOTAL (B-G)	% OF GRAND TOTAL
	Meetings & Coordination	26	1,252.00	1,824.16		463.24				3,539.40	2.56%
	Shop Drawings & Contrac	10	411.00	598.83		152.07				1,161.90	0.84%
	Scheduling	10	452.00	658.56		167.24				1,277.80	0.92%
	Construction Layout	8	348.00	507.04		128.76				983.80	0.71%
	Construction Observation	946	42,613.00	62,087.14	2,500.00	15,766.81				122,966.95	88.91%
	Documentation	28	1,252.00	1,824.16		463.24				3,539.40	2.56%
	Pay Request & C.O. Revi	12	556.00	810.09		205.72				1,571.81	1.14%
	Project Close-Out	28	1,156.00	1,684.29		427.72				3,268.01	2.36%
	Subconsultant DL					0.00				0.00	0.00%
	TOTALS	1068	48,040.00	69,994.28	2,500.00	17,774.80	0.00	0.00	0.00	**138,309.08**	100.00%

DBE 0.00%

DBE

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AVERAGE HOURLY PROJECT RATES

FIRM Engineering Resource Associates, Inc.
PSB 18-1 Water and Sewer Main Improvement Project - Phase III
PRIME/SUPPLEMENT

DATE 05/08/18

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			Meetings & Coordination			Shop Drawings & Contra			Scheduling			Construction Layout			Construction Observation		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	70.00	2	0.19%	0.13	2	7.69%	5.38												
Professional Engineer V	65.80	0																	
Professional Engineer IV	61.00	0																	
Professional Engineer III	52.00	194	18.16%	9.45	8	30.77%	16.00				2	20.00%	10.40				172	18.18%	9.45
Professional Engineer II	40.00	0																	
Professional Engineer I	32.00	0																	
Structural Engineer VI	70.00	0																	
Structural Engineer III	58.00	0																	
Staff Engineer III	31.50	10	0.94%	0.29				2	20.00%	6.30									
Staff Engineer II	30.00	0																	
Staff Engineer I	28.00	0																	
Lead Resident Inspector	43.50	862	80.71%	35.11	16	61.54%	26.77	8	80.00%	34.80	8	80.00%	34.80	8	100.00%	43.50	774	81.82%	35.59
Engineering Technician IV	30.00	0																	
Engineering Intern II	16.00	0																	
Engineering Intern I	12.00	0																	
Ecological Services Director	45.00	0																	
Environmental Specialist I	25.50	0																	
Professional Surveyor I	43.00	0																	
Surveyor III	30.00	0																	
Administrative Staff IV	30.00	0																	
Administrative Staff III	25.00	0																	
Administrative Staff II	21.75	0																	
		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		1068	100%	$44.98	26	100.00%	$48.15	10	100%	$41.10	10	100%	$45.20	8	100%	$43.50	946	100%	$45.05

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AVERAGE HOURLY PROJECT RATES

FIRM Engineering Resource Associates, Inc.
PSB 18-1 Water and Sewer Main Improvement Project - Phase III
PRIME/SUPPLEMENT

DATE 05/08/18

SHEET 2 **OF** 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Documentation			Pay Request & C.O. Review			Project Close-Out												
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	70.00																		
Professional Engineer V	65.80																		
Professional Engineer IV	61.00																		
Professional Engineer III	52.00	4	14.29%	7.43	4	33.33%	17.33	4	14.29%	7.43									
Professional Engineer II	40.00																		
Professional Engineer I	32.00																		
Structural Engineer VI	70.00																		
Structural Engineer III	58.00																		
Staff Engineer III	31.50							8	28.57%	9.00									
Staff Engineer II	30.00																		
Staff Engineer I	28.00																		
Lead Resident Inspector	43.50	24	85.71%	37.29	8	66.67%	29.00	16	57.14%	24.86									
Engineering Technician IV	30.00																		
Engineering Intern II	16.00																		
Engineering Intern I	12.00																		
Ecological Services Director	45.00																		
Environmental Specialist I	25.50																		
Professional Surveyor I	43.00																		
Surveyor III	30.00																		
Administrative Staff IV	30.00																		
Administrative Staff III	25.00																		
Administrative Staff II	21.75																		
TOTALS		28	100%	$44.71	12	100%	$46.33	28	100%	$41.29	0	0%	$0.00	0	0%	$0.00	0	0%	$0.00

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