

RESOLUTION NO. 22-R-52

**A RESOLUTION TO AWARD A CONTRACT FOR PUBLIC WORKS
ADMINISTRATIVE ASSISTANCE**

NOW, THEREFORE, BE IT RESOLVED by the Mayor and the City Council of the City of Rolling Meadows, Illinois, that a proposal to provide Public Works Administrative Services by Christopher B. Burke Engineering, Ltd., located at 9575 W. Higgins Road, Suite 600, Rosemont, IL 60018, dated May 2, 2022, at a cost not to exceed \$50,000, is hereby approved, and that the Interim Public Works Director is hereby authorized to execute the contract for services attached hereto as Exhibit A.

These services are to be charged to the Public Works Administrative Fund (Account 54610: Professional Services), with funding from Salaries (50010)

AYES: O'Brien, Vinezeano, Bisesi, Reyez, Sanoica, McHale, Budmats
NAYS: 0
ABSENT: 0

Passed and approved this 10th day of May, 2022.

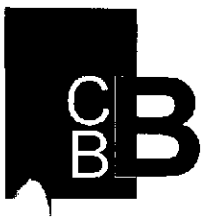


Joe Gallo, Mayor

ATTEST:



Judith Brose, Deputy City Clerk



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 W Higgins Road, Suite 600 Rosemont, Illinois 60018-4920 Tel (847) 823-0500 Fax (847) 823-0520

April 13, 2022

Revised May 2, 2022

City of Rolling Meadows
Public Works Department
3900 Berdnick Street
Rolling Meadows, IL 60008

Attention: Jo Ellen Charlton, Interim Director of Public Works

Subject: Professional Engineering Services, General Assistance at Public Works

Dear Jo Ellen:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to submit this proposal to provide Professional Engineering and Administrative Assistance Services in support of the Rolling Meadows Public Works Department.

UNDERSTANDING OF THE ASSIGNMENT

CBBEL understands that the City is looking to supplement their current in-house Public Works administrative staff by utilizing the services of an outside professional engineering consulting firm.

SCOPE OF SERVICES

CBBEL will provide general assistance as directed by the Public Works Interim Director. The Public Works Department will be looking for assistance on tasks of the following nature (list is not exhaustive).

- Recruiting, interviewing, evaluating and placing multiple staff and/or supervisory positions; Human Resources type assistance.
- Preparing and reviewing Council Action Summary Reports and Committee of the Whole (COW) Summary Memorandums. Council Meetings are conducted every 2nd & 4th Tuesday of the month, COW Meetings are conducted on the 3rd Tuesday of the month. Checking accuracy, writing style, and confirming details with the Public Works Supervisors expected for this task.
- Attendance at the aforementioned City Council and/or COW meetings, in a supportive roll, may be necessary. Meetings are held in person at City Hall at 7:30 pm.
- Reviewing safety protocols and documentation in preparation for IRMA Regulatory Assistance Visit (RAV) inspection, scheduled for later this year.

- Working with staff on various code amendments (Tree Preservation, Coal Tar Ban, Subdivision Regulations).
- Ad hoc tasks coming out of various committee meetings; City Manager Hiring Committee, Economic Development Committee, Environmental Committee, etc.
- Assisting in the transition of a current staff member to a utility supervisor and helping this person document their tasks as well as train their replacement.
- Monitoring and tracking existing outside funding sources/grants, identifying and evaluating potential outside funding sources/grants for capital improvement projects.

For the above tasks, we propose Jim Massarelli, PE as the project lead. Jim has over 35 years of experience; 14 of which were as Director of Engineering for the Village of Arlington Heights. Jim will be supported by John Heinz as the project backup. John has over 37 years of experience; 8 of which were as Director of Public Works for the Village of Libertyville. In the event that neither Jim nor John is available, Ryan Lindeman, PE will provide a backstop to ensure the City's needs are fully met.

ESTIMATE OF FEE

We will bill you on a time and materials basis at the rate of \$120 per hour not to exceed \$50,000. Initially CBBEL proposes to be on-site on Mondays and Tuesdays for 8 hours each day and for a minimum of 4 hours on Fridays (total initial on-site time of 20 hours/week). The days of the week required may be adjusted on an as agreed upon schedule with a mixture of on-site and remote work (when applicable). Hours may be increased or decreased depending upon the required workload and timing. In advance of the exhaustion of this contract, we will meet with the City to discuss revising/extending this contract to meet the Public Works Department's needs moving forward.

The contract will incorporate applicable terms of the previously agreed upon General Terms and Conditions with the City contained in the November 27, 2019 City Engineering Contract (approved by City Council on December 3, 2019, executed on February 7, 2020).

Sincerely,



Michael Kerr, PE
President

THIS PROPOSAL ACCEPTED FOR THE CITY OF ROLLING MEADOWS:

BY: _____
 TITLE: _____
 DATE: _____



James Massarelli, PE

Senior Project Manager

YEARS EXPERIENCE: 37

YEARS WITH CBBEL: 4

EDUCATION

Bachelor of Science, 1985
Civil Engineering,
University of Iowa

PROFESSIONAL REGISTRATION

Professional Engineer, IL,
062.046110, 1990

PROFESSIONAL AFFILIATIONS

American Society of
Civil Engineers

American Public Works
Association - Suburban
Branch, Chicago Metro
Chapter, Life Member

Mr. Massarelli joined CBBEL after nearly 30 years of public employment. He has hands on experience in nearly every aspect of Municipal Engineering, including 14 years as Director of Engineering for the Village of Arlington Heights. As Director, he was responsible for a \$8 million Road Construction Budget. He was the Village Board Liaison for the Board of Local Improvements and the Bicycle & Pedestrian Advisory Commission. Duties included attendance at public meetings, budgeting, management of capital improvements and daily interaction with Engineering staff (10 employees with 5 Professional Engineers) with an emphasis on developing a reliable and knowledgeable team through leadership and education. Jim's main responsibilities at CBBEL are managing various design projects and municipal clients within the Civil Engineering Design Department.

Village Engineer Representative, Algonquin (2020-present): Regularly works with the Village in a variety of capacities including administration and design of municipal programs and projects, coordination of development reviews and construction inspections, and attendance at staff meetings. When needed, Village Board and staff reports are prepared.

Village Engineer, Lindenhurst (2019-present): Currently oversees all municipal engineering responsibilities and serves as Village Engineer. Regularly works with the Village in a variety of capacities including administration and design of municipal programs and projects, coordination of development reviews and construction inspections.

West Side Neighborhood Storage Project (Hibbard Park) - Contract 2, Wilmette: Project Manager for design of stormwater improvements consisting of a new relief storm sewer system and underground concrete storage vault. Responsibilities consisted of preparing plans, specifications, and estimates, and attending numerous meetings with Village Staff and Public Works Personnel and attending a public meeting with the affected residents to discuss the improvements. Plans included approximately 6,500 LF of storm sewer installation ranging from 12" to 60" in size (including 19"x30" RCEP), 700' of 8" water main, pavement reconstruction, driveway replacement, and bioretention, as well as 315 LF of 36" diameter storm sewer jacked-in-place in a 48" steel casing to avoid disturbance to several mature trees on park district property. Extensive coordination with our Geotechnical Subconsultant was required due to the high groundwater present in the area of the proposed deep excavation and utility coordination due to the numerous private facilities within the ROW requiring relocation in order to properly construct the proposed storm sewer system. CBBEL was also responsible for designing a new pump station, mass site grading, and an intricate underdrain system.

West Side Neighborhood Storage Project (Phase 1A) - Contract 1A, Wilmette: Project Manager for design of stormwater improvements consisting of a new relief storm sewer system. Responsibilities consisted of preparing plans, specifications, and estimates, and attending numerous meetings with Village Staff and Public Works Personnel and attending a public meeting with the affected residents to discuss the improvements. Plans included approximately 6,000 LF of storm sewer installation ranging from 12" to 48" in size, 900' of 10" water main, pavement rehabilitation, driveway replacement, and bioretention.

1990-2018 VILLAGE OF ARLINGTON HEIGHTS

DIRECTOR OF ENGINEERING 2005 - 2018

ACTING DIRECTOR OF ENGINEERING 2004 - 2005

Responsible for all managerial and engineering decisions associated with the Engineering Department. Direct all engineering aspects of private and public development. Manage the duties of the Engineering Department staff. Represent the Engineering Department on a number of committees including the Village of Arlington Heights 5-year Capital Improvement Program (CIP). Direct activities associated with road programs 6 million general fund 1.8 million MFT fund. Mentoring of staff, particularly during critical decision making events. Coordination with multiple agencies during design/permitting phase of projects. Extensive coordination with other municipalities.

The Department is made up of the following functional units:

Public Development Construction Inspection and Systems Design: This unit is responsible for the preparation of plans, construction inspection and layout for all publicly funded municipal system projects, including flood control and road improvements; planning and administering the Village's infrastructure improvement program, including inventory, evaluation and construction. Completed in-house federally funded project phase 1, 2 and 3.

Private Development Construction Inspection and Systems

Design: This unit is responsible for reviewing and approving all plans prepared by developers for privately funded municipal system projects and sites to be developed; inspecting the construction of these projects and sites; making bond release inspections; and responding to citizen inquiries on grading problems.

Traffic Engineering: This unit is responsible for the compilation of traffic data for proposed traffic controls; investigating and evaluating requests and needs for traffic safety measures and traffic control devices; reviewing the traffic impact of new development; coordinating the installation of street lighting systems coordinating the Village's involvement with proposals for improvements by the Illinois Department of Transportation and Cook County Department of Transportation and Highways; and performing long and short range transportation planning.

DEPUTY DIRECTOR OF ENGINEERING; 4/1997 - 4/2005

Direct all engineering aspects of private development within the Village of Arlington Heights ranging from initial plan review through review of record drawings. Responsible for carrying out the duties of the Director of Engineering in the Director's absence. Manage the duties of Engineering Inspectors and determine job assignments for each inspector. Evaluate each Inspector's job performance.

CIVIL ENGINEER; 11/1990 - 4/1997

Project Manager and Resident Engineer for complex public improvements projects including design of plans, preparation of specifications and construction supervision of water main, roadway and sewer (storm, sanitary, and combined) projects. Accountable for coordinating with contractors on scheduling to lessen public inconvenience and coordinate inspectors' duties with multiple contractor operations at numerous locations. Responsible for coordination of consultants activities to the Engineering Department including plan review, project scheduling, and invoices.

LINDLEY & SONS, INC., HINSDALE (1985 - 1990)

PROJECT ENGINEER

Responsible for all facets of project development, from preparing proposals to completion of construction. Projects ranged from site design and completion of final engineering plans, including obtaining all required permits (federal, state, and local), to municipal plan review and preparation of MFT plans and documents. Also responsible for coordination of contractors' and owners' scheduling, construction inspection, daily field reports, construction layout, and review of payment requests.



John Heinz

Senior Construction Manager

YEARS EXPERIENCE: 39

YEARS WITH CBBEL: 7

EDUCATION

Bachelor of Science, 1983
Civil Engineering,
University of Illinois at
Urbana-Champaign

PROFESSIONAL AFFILIATIONS

American Public Works
Association - Lake County
Branch, Chicago Metro
Chapter, Life Member

President, Lake Branch, 1990

President, Chicago Metro
Chapter, 1994

AWARDS

National APWA Presidential
Leadership Award, 2019

Hall of Fame Award, Chicago
Metro Chapter APWA, 2016

Richard A. Welton
Stormwater Manager of the
Year, LCSMC, 2015

National Top Ten Public Works
Leader of the Year, 2004

Harry S. Swearingen Award,
National APWA, 1996

Western Golf Association
Chick Evans College
Scholarship (4 years)

Mr. Heinz joined CBBEL after 32 years of public employment. He has hands on experience in nearly every aspect of the Public Works Industry and Municipal Engineering, including 8 years as Director of Public Works for the Village of Libertyville from 2007 to 2015. As Director, he was responsible for a \$6 million Annual Operating Budget and an \$8 million Capital Improvement Budget. He was the Village Board Liaison for Streets, Water and Sewer, Parking and Bicycle Committees. Duties included attendance at all public meetings, budgeting, management of all capital improvements and daily operations with emphasis on developing a loyal, dedicated team through leadership and education. John's main responsibilities at CBBEL are assisting the Construction Department in Project Management and Business Development.

CHRISTOPHER B. BURKE ENGINEERING, LTD. (CBBEL)

Village of Algonquin Public Works Department In-House Engineering Services (2019-Present): Coordinates all engineering related activities including but not limited to IDOT and County projects, and approximately \$46 million in Capital Improvement projects (roadway, stormwater, water main, sanitary sewer, wastewater treatment, streetscape and park improvements). Oversees all contractual staffing and consultants in this effort. All work is done on-site at the Public Works facility and in the field.

Village of Schaumburg Acting Assistant Director of Engineering and Public Works (2018-2019): Assisted Director with full service department including Public Works operations and Municipal Engineering including all aspects of staff management and project management. All work was done on site at the Public Works facility using a team approach with another retired Director of Public Works.

Village of Roselle Acting Director of Public Works (2016-2019): Effectively was in charge of the Public Works Department including Municipal Engineering, full time in the facility, and attending Board meetings when required.

2007-2015 DIRECTOR OF PUBLIC WORKS: LIBERTYVILLE

- Lead and managed full service public works department, including municipal engineering, streets, stormwater management, sanitary sewers, lift stations, water treatment, storage and distribution, wastewater treatment, parks maintenance, and fleet services.
- Made formal presentations at Village Board, Committee and Plan Commission meetings.
- Provided guidance to developers regarding numerous residential, commercial, and industrial projects proposed within the Village, ensured compatibility and compliance with Village codes and requirements.
- Responsible for organizing the design and construction of capital improvements following a successful \$20 million road bond referendum.
 - Coordination of the road bond projects included underground utility televising to ensure acceptable conditions, water main replacement, sanitary and storm sewer replacement and repair, pavement rehabilitation and reconstruction.
 - Ensured that all field survey, design work and bidding was complete to bid projects out in January/February and commence construction in spring to ensure completion by September/October. Completed 3 consecutive years of this work and prepared the 4th year.

1989-2007 DIRECTOR OF PUBLIC WORKS: BARRINGTON

- Managed full service Public Works Department including Municipal Engineering, Water Production and Treatment, Wastewater Treatment, Forestry, Streets, Drainage, Contract Recycling and Refuse, Planning, Building and Grounds Maintenance and Fleet Services.
- Responsible for Annual Operating Budgets totaling in excess of \$6 million, Capital Budgets of \$3-4 million.
- Integral part of a team which successfully negotiated with 9 different property owners on a downtown redevelopment plan - Garfield Center.
- Led a team that successfully constructed all site improvements related to the Garfield Center redevelopment project. Work included \$1 million storm sewer, demolition/construction of new Jewel/Osco, demolition of various structures, site utilities, parking, landscaping, lighting, within 10 months.
- Served on a team which successfully received in excess of \$1 million dollars in Economic Development funding from IDOT for highway and local road improvements. Led the team that completed the critical elements of this project in 45 days.

- Effectively reduced Public Works staff while assuming additional duties (Planning, Building and Grounds Maintenance).
- Served on a team which successfully negotiated the first Public Works labor contract.
- Implemented multi-year capital improvement infrastructure program.
- Responsible for securing 4 grants totaling \$1.5 million for restoration and stabilization of Flint Creek throughout Village. Grant restoration projects selected for a Local and Regional, Project of the Year 1995. Village received recognition from Citizens for Conservation, a local conservation group, for efforts on the creek - William Miller Award on 2 occasions.
- Promoted and attained developer compliance related to tree preservation/protection in all developments.
- Served as a speaker at seminars, symposiums and workshops related to issues such as erosion control, stormwater management, riparian system management and developer compliance.

1985-1989 VILLAGE ENGINEER, DIRECTOR OF PUBLIC WORKS, BUILDING & ZONING COMMISSIONER: LINDENHURST

- Managed and led full service Public Works Department including Municipal Engineering.
- Received the 3rd IEPA low interest loan issued in the state of Illinois, first year of the program.

1983-1985 ASSISTANT DIRECTOR OF PUBLIC SERVICES: GENEVA

- Managed full service Public Works Department including Municipal Engineering.
- First Engineer on staff in City's history.
- Prepared template for City's industrial pre-treatment program.



Ryan Lindeman, PE

Senior Project Manager

YEARS EXPERIENCE: 16

YEARS WITH CBBEL: 16

EDUCATION

Bachelor of Science, 2005
Civil Engineering
Purdue University

PROFESSIONAL REGISTRATION

Professional Engineer, IL,
062.063305, 2011

CERTIFICATIONS

Documentation of Contract
Quantities, IDOT, 20-16298

ICORS Training, IDOT

CMMS Training, IDOT

Material Management of
Job Sites, IDOT

PROFESSIONAL DEVELOPMENT

STTP-S33 Soils Field Testing
and Inspection Course, IDOT

US Green Building Council
International Conference and
Expo, Educational Seminars
presented by IRTBA, CDOT,
and Chicago Center for
Neighborhood Technology,
2010

Ethics in City Government,
Ethics Training for CDA/OMP
Contractors, Vendors and
Employees

Ryan is experienced in the fields of design and construction engineering. Civil Design experience includes roadway pavement design, storm and sanitary sewer system design, water distribution system design, State and Municipal plan set drafting, and preparation of cost estimates, specifications, and contract documents for various public infrastructure improvement projects. Construction Engineering experience includes on-site construction observation, project coordination, scheduling, documentation of quantities, coordination and/or verification of materials testing and inspection, preparation of change orders, review of contractor pay requests, preparation of as-built drawings, and finalization of contracts. Proficient in documentation requirements for various types of funding including FAU, STP, MFT, RBI, ITEP, and CDBG grants.

Computer proficiency includes MicroStation V8i, Geopak, Microsoft Access/Word/Excel, ICORS and CMMS

Annual Street Resurfacing Program (2005 - Present), Rolling Meadows: Engineer for civil design, preparation of contract documents, and construction observation services for street resurfacing with curb and gutter repairs, sidewalk replacement, storm sewer improvements, along various streets averaging over 1 ½ miles per year. Duties include design, specifications, bidding assistance, construction observation, coordination of material inspection, documentation of quantities and contract administration in accordance with IDOT's Construction Manual.

Annual Street Reconstruction Program (2015 - Present), Rolling Meadows: Engineer for civil design, preparation of contract documents, and construction observation services for street reconstruction of various streets averaging approximately 1 mile per year. Rehabilitation methods include both conventional full depth removal and replacement of roadway infrastructure, as well as reclamation and stabilization of existing subgrade. Duties include design, specifications, bidding assistance, construction observation, coordination of material inspection, documentation of quantities and contract administration in accordance with IDOT's Construction Manual.

Arbor Drive Improvements (Phases 1 & 2), Rolling Meadows: Design Engineer and Resident Engineer for roadway and drainage improvements of Arbor Drive. Each phase of the project included full curb and gutter removal and replacement, drainage structure and storm sewer lateral replacement, HMA resurfacing with full depth Class D patching, and incidental parkway restoration. Duties include design, specifications, Cook County Community Development Block Grant (CDBG) coordination, bidding assistance, construction observation, coordination of material inspection, documentation of quantities and contract administration in accordance with IDOT's Construction Manual.

Kirchoff Road Resurfacing [IDOT Contract #61F07], Rolling Meadows: Phase II Design Engineer and Resident Engineer for roadway rehabilitation for the five-lane arterial through Rolling Meadows's downtown area. The project included over 55,000 SY of HMA surface removal down to existing concrete base, 2,400 SY of Class B patching, Salt Creek bridge deck rehabilitation, ADA sidewalk improvements, concrete curb and gutter repairs, raised concrete median replacement and realignment with decorative stamped and integrally colored concrete, over 10,000 tons of HMA resurfacing, and landscaping enhancements. Duties included shop drawing review, observation and coordination of contractor operations and scheduling QA testing, materials inspection documentation, documentation of quantities using ICORS, preparation of change orders, authorizations, and pay estimates using ICORS.

Barker Avenue Bridge over Salt Creek Superstructure Replacement [IDOT Contract #61E44], Rolling Meadows: Resident Engineer for rehabilitation of Barker Avenue Bridge over Salt Creek. Project included complete superstructure demolition, precast prestressed box beam replacement, concrete wearing surface with sidewalks, form liner stone relief parapets and wingwalls, hand railings, guardrail installation, and landscape restoration. Duties included shop drawing review, coordination with local agency for full road closures, observation and coordination of contractor operations and scheduling QA testing, materials inspection documentation, documentation of quantities using ICORS, preparation of change orders, authorizations, and pay estimates using ICORS.

Euclid Avenue Multi-Use Path [IDOT Contract #61E78], Rolling Meadows: Resident Engineer for the construction of a new bike path connecting existing Rohlwing Road and Salt Creek bike paths. Construction of the HMA path required earth excavation and embankment, as well as ADA improvements at intersections. Traffic signal modifications included the addition of pedestrian signals with push buttons and count down timers. Duties included shop drawing review, coordination with multiple stakeholders (Rolling Meadows, Arlington Heights, IDOT, and Cook County), observation and coordination of contractor operations and scheduling QA testing, materials inspection documentation, documentation of quantities using ICORS, preparation of change orders, authorizations, and pay estimates using ICORS.

Squibb Avenue Reconstruction and Extension, Rolling Meadows: Resident Engineer for roadway reconstruction and extension. Existing roadway was widened to provide a 3-lane cross section and extended to meet Ring Road. The completed Squibb Avenue connects Apollo Drive and Ring Road, providing the Commercial/Industrial

Businesses in the area safe ingress and egress to IL Rt. 58 (Golf Road). Accommodations for a future adjacent distribution warehouse site development and planned lighting projects were also included in the project's scope. Duties included shop drawing review, coordination with local agency and adjacent property and business owners, observation and coordination of contractor operations, scheduling QA testing, materials inspection documentation, documentation of quantities, preparation of change orders, authorizations, and pay estimates.

Kennedy Pond Spillway, Rolling Meadows: Resident Engineer for the removal and replacement of spillway from Kennedy Pond to Salt Creek. Project consisted of the removal of an existing failing concrete spillway, channel excavation, installation of an articulated block revetment mat, and installation of rip rap armoring along Kennedy Pond shoreline and the Salt Creek channel at the spillway. Adjacent HMA multi-use path was removed and replaced after spillway construction was completed. Duties included shop drawing review, observation and coordination of contractor operations, scheduling QA testing, materials inspection documentation, documentation of quantities, preparation of change orders, authorizations, and pay estimates.

2016 Pavement Conditions Assessment, Rolling Meadows: Inspection of over 63 miles of roadways in the City of Rolling Meadows. Assessment included updating Client's roadway network PCI database, evaluating the changing conditions from the previous assessments (2003 & 2010), and development of ten-year roadway maintenance and reconstruction programs for an annual estimated expenditure of \$2 million.

Salt Creek Bike Path [IDOT Contract #61B87], Rolling Meadows: Resident Engineer for the construction of a bike path along Salt Creek, from Kirchoff Road to the Rolling Meadows Public Library (1,000 LF). Improvements consisted of extensive tree and brush clearing, approximately 2700 CY of earth excavation and grading, construction of a two-tiered, modular block retaining wall (5700 SF), HMA bike path, aggregate shoulders, wood post and rail safety fencing, extensive landscape plantings for sight screening and native greening, and stone rip-rap streambank stabilization along the length of the lower tier modular block retaining wall. Duties included shop drawing review, coordination with local agency and adjacent property and business owners, coordination of contractor operations, scheduling QA testing, materials inspection documentation, documentation of quantities using ICORS, preparation of change orders, authorizations, and pay estimates using ICORS.

2016 Water Main Replacement Project, Huntley: Design Engineer for approx. 900 LF of water main. Responsible for design of proposed improvements, establish quantities and determine cost estimates, coordination with utility companies, permit applications, and preparation of plans and specifications.

IL Route 58 Sidewalk and Pedestrian Signal Improvements [IDOT Contract #61B42], Rolling Meadows: Resident Engineer for construction of pedestrian improvements to north parkway on IL Route 58 (Golf Rd) from Lois Drive to Ring Road (0.96 Mi). Improvements consisted of over 18,000 SF of PCC sidewalks, parkway restoration, landscape plantings, and Salt Creek Bridge deck reconfiguration (parapet wall, latex concrete overlay, and guardrail). Project included pedestrian signal improvements at the intersections of IL Route 58 and Ring Road and Gould Drive. Duties included shop drawing review, coordination with local agency and Illinois State Toll Highway Authority (ISTHA), coordination of contractor operations, scheduling QA testing, materials inspection documentation, documentation of quantities using ICORS, preparation of change orders, authorizations, and pay estimates using ICORS.

Salt Creek Streambank Stabilization (Phases II - IV), Rolling Meadows: Resident Engineer for construction of over 4200 LF of creek bank erosion stabilization. Erosion mitigation and bank stabilization measures were achieved through several combined methods including channel excavation, geotextile erosion control fabric, stone riprap class A3 - A5, native perennial plantings, and restorative seeding of regraded banks. Duties included coordination of contractor operations, materials inspection, construction observation, documentation of quantities, and preparation of pay estimates. Project location required significant communication with residents as construction equipment and personnel required access through private property to construct improvements.

Rohlwing Road and Industrial Avenue Resurfacing, Rolling Meadows: Resident Engineer for rehabilitation of approx. 7,200 LF (1.35 mi) of pavement (Industrial Ave from Hicks Rd to Rohlwing Rd and Rohlwing Rd from Industrial Ave to Kirchoff Rd). Project improvements included removing 3¾" existing HMA pavement, full depth Class D Patching, and HMA resurfacing. All sidewalks and bike paths were upgraded to ADA standards. Locations of failed curb and gutter were removed and replaced. 76 storm, water, and sanitary structures were rebuilt, replaced, or reconstructed. Duties included coordination of contractor operations, materials inspection, construction observation, documentation of contract quantities, preparation of change orders and pay estimates, and closeout documentation. Coordination with IDOT, CCDOH, and MWRD were required for successful completion of this project.

Bunker Hill Drive Resurfacing, Algonquin: Resident Engineer for rehabilitation of approx. 4,900 LF (0.93 mi) of pavement (Bunker Hill Dr from Saratoga Cir to Square Barn Rd). Project improvements included full depth HMA pavement removal, aggregate subgrade repairs, binder and surface course HMA pavement, reconstruction of 3 brick paved traffic calming roadway features, relocating fire hydrants, storm sewer improvements, sidewalk installation, and parkway restoration, and thermoplastic pavement markings. Duties included coordination of contractor operations, materials inspection, construction observation, documentation of contract quantities, preparation of change orders and pay estimates, and closeout documentation.

Western Avenue Realignment, Glendale Heights: Resident Engineer for realignment of approx. 950 LF (0.18 mi) of pavement (Western Ave from 3rd St to IL 64/North Ave). Improvements consist of a new curved horizontal alignment of Western Ave, new storm sewer system, new sanitary system, new water main, 1,500 LF of curb and gutter, and 1,775 SY of HMA pavement. All aerial utilities (ComEd and AT&T) adjacent to project were relocated underground. In addition, a 1.3 acre-foot detention basin was constructed to accommodate future storm water storage for development along North Ave. Detention basin is lined with hemi-marsh wetlands and prairie grasses. Duties included coordination of contractor operations, materials inspection, construction observation, documentation of contract quantities, preparation of change orders and pay estimates, and closeout documentation.

IL Route 58 & New Wilke Road Intersection Improvement [IDOT Contract #83735], Rolling Meadows: Resident Engineer for reconstruction and widening of IL Route 58 (Golf Rd) from I-90 overpass to Meijer Dr and New Wilke Rd from Golf Pl to south limit at I-90. Improvements consisted of new vertical profile, 23,400 SY of 10" Jointed PCC Pavement, 4,400 SY of 9" Jointed PCC Pavement, HMA bike path, PCC sidewalks, and retaining walls. Project included traffic signal modernization at both intersections, interconnect, and installation of new storm sewer system. Duties included shop drawing review, coordination with local agency, coordination of contractor operations and scheduling QA testing, materials inspection documentation, documentation of quantities using ICORS, preparation of change orders, authorizations, and pay estimates using ICORS.