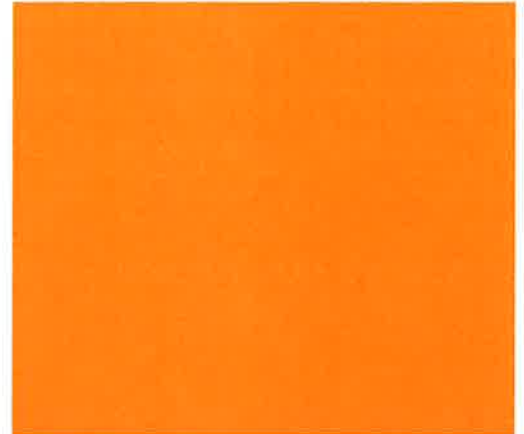




October 30, 2018

JACKSON POND OVERFLOW CONSTRUCTION ENGINEERING SERVICES



SUBMITTED TO:
JEREMIE LUKOWICZ
ASSIST. VILLAGE ENGINEER
VILLAGE OF VILLA PARK
PUBLIC WORKS DEPARTMENT
11 WEST HOME AVENUE
VILLA PARK, IL 60181

SUBMITTED BY:
KEVIN WILSON, PE
CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. HIGGINS ROAD, SUITE 600
ROSEMONT, IL 60018
kwilson@cbbel.com



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

October 30, 2018

Village of Villa Park
Public Works Department
11 West Home Avenue
Villa Park, Illinois 60181

Attention: Mr. Jeremie Lukowicz, PE – Assistant Village Engineer

Subject: Proposal for Professional Engineering Services
Jackson Pond Overflow Project - Phase III Services

Dear Mr. Lukowicz:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to provide this proposal for professional engineering services related to the Jackson Pond Overflow Project in the Village of Villa Park (Village). Included in this proposal is our Understanding of Assignment, Scope of Services, and Estimated Fee.

UNDERSTANDING OF THE ASSIGNMENT

CBBEL understands that this project includes earthwork to expand the southern portion of the existing basin at Jackson Middle School and to construct a stormwater overflow storage basin north of Highridge Road, a swale and new baseball field on the Village property just north of Highridge Road and east of the Islamic Foundation of Villa Park. The work also includes associated underground storm sewer installation within Highridge Road and Ardmore Avenue that discharges to Sugar Creek, fine grading for the entire disturbed area, and other related and incidental work necessary to complete the improvements as shown on the plans.

Resident/Business/School Notification and Access

John Heinz will serve as our public outreach liaison. The Islamic Foundation, Willowbrook High School and Jackson Middle School are adjacent to the project and CBBEL will work with the contractor to provide safe access to these facilities. CBBEL will discuss the project with the Parks Department to minimize the impact construction will have on the recreational facilities. CBBEL will keep the public aware of the construction activities, as required. This will include, but not be limited to, notification of construction starting, detours and/or road closures, and access limitations. The Resident Engineer (RE) will also be available throughout the construction project to address any questions or concerns

area residents and/or businesses may have. Our policy is to respond to all questions or concerns within one business day.

Funding and Documentation

CBBEL understands that the project has Local and CDBG-DR Funding. Our Construction Engineering staff follows IDOT's guidelines for documentation and material inspection for all of our projects. This allows the RE to provide necessary information regarding cost or schedule to the Village throughout construction. Following IDOT's guidelines also facilitates a timely project close-out. CBBEL has completed employee interviews and funding documentation for multiple CDBG projects; our Senior Construction Staff will coordinate this work with the CBBEL RE to ensure compliance with DuPage County so that the Village receives full funding.

SCOPE OF SERVICES

Based on our experience with similar projects, our anticipated scope of services is detailed below:

Task 1 – Pre-Construction:

1. Review the contractor's schedule for compliance with any milestones and/or restrictions found in the contract documents. CBBEL will review the schedule for constructability to ensure that the work is being completed in a logical sequence.
2. Prepare all project files prior to the start of construction. This shall include reviewing all applicable construction inspectors' checklists found in IDOT's Construction Manual to anticipate any issues that may arise during construction.
3. Review the plans and specifications and identify any potential issues or conflicts that can be resolved prior to construction. This will assist in avoiding unnecessary delays and change orders.
4. Facilitate the Pre-Construction Meeting.
5. CCDD testing will be completed by the design engineer or Village.

Task 2 – Shop Drawing Review

CBBEL's staff will assist the RE in reviewing shop drawings for the pedestrian bridge, baseball field and lighting, and other elements as required.

1. Check and approve, or reject and request resubmittal of, any submittals made by the contractor for compliance with the contract documents.
2. Shop Drawings and Contractor Submittals:
 - a. Record data received, maintain a file of drawings and submissions, and check construction for compliance with them.
 - b. Review Contractor's submittals for compliance with 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.

Task 3 – Construction Observation

CONSTRUCTION OBSERVATION

1. Observe the progress and quality of the executed work. Determine if the work is proceeding in accordance with the Contract Documents. CBBEL shall keep the Village informed of the progress of the work, guard the Village against defects and deficiencies in the work, and advise the Village of all observed deficiencies of the work and disapprove or reject all work failing to conform to the Contract Documents.
2. Provide extensive on-site observations of the work in progress and field checks of materials and equipment through an RE and Inspector (if necessary), who shall:
 - Serve as the Village's liaison with the contractor working principally through the contractor's field superintendent.
 - Be present whenever the contractor is performing work on-site, associated with the project.
 - Cooperate with the contractor in dealing with the various local agencies and utility companies having jurisdiction over the Project.
 - Record names, addresses and telephone numbers of all contractors, subcontractors, and major material suppliers.
 - Attend all construction conferences. Arrange weekly progress meetings and other job conferences if required. Maintain and circulate copies of records of the meetings.
 - Review contractor's progress on a weekly basis and update the progress schedule. Compare actual progress to the contractor's approved schedule. If the project falls 14 calendar days behind schedule, work with the contractor to determine the appropriate course of action to get back on schedule. The contractor is required to submit a revised schedule for approval prior to further payments being made.
 - Maintain orderly files of correspondence, reports of job meetings, shop drawings and other submissions, RFI responses, original contract documents including all addenda, change orders and additional drawings issued after the award of the contract.
 - Prepare any contract changes needed as construction proceeds. Once the contractor submits a proposal, assist the Village in their review and provide a recommendation.
3. Determine if the project has been completed in accordance with the contract documents and if the contractor has fulfilled all obligations.
4. Except upon written instruction of the Village, the RE or Inspector shall not authorize any deviation from the Contract Documents.
5. Alert the Contractor's field superintendent when materials or equipment are being installed before approval of shop drawings or samples, where such are required, and advise the Village when it is necessary to disapprove work as failing to conform to the Contract Documents.
6. Discuss the truck routes with the Contractor and monitor that the identified routes are being used.
7. All CBBEL personnel and their sub-consultants will comply with the Village's current safety guidelines.

CONSTRUCTION DOCUMENTATION

1. Keep an inspector's daily report book and project diary in the Village's format, recording hours on the job site, weather conditions, general and specific observations, daily activities, quantities placed, inspections, decisions, and list of visiting officials, as outlined in IDOT's Construction Manual. Additionally, prepare photo documentation of construction to be submitted in both hard and digital formatting.
2. Prepare payment requisitions and change orders. Review applications for payment with the Contractor for compliance with established submission procedure and forward them with recommendations to the Village.
3. Schedule any material testing at the frequency required by IDOT's QC/QA provisions. Also obtain and document all material inspection received from the Contractor as outlined in the Project Procedures Guide of IDOT's Construction Manual.
4. Prepare a monthly written update to the Village summarizing the Project status, costs and schedule.
5. Review and coordinate response to any RFI from the Contractor in a timely manner and maintain a separate file for each request.
6. Perform and document employee interviews as required for CDBG Funding.

Task 4 – Survey

1. Verify initial geometric controls.
2. If the contractor is responsible for construction staking, perform periodic measurements to assure the contractor's construction staking and construction layout is accurate per plans.
3. Complete before and after cross sections of the pond to determine earth excavation quantities.
4. Survey existing and final conditions for as-builts.

Task 5 – Erosion Control Inspection

As required by the provisions of the NPDES Permit Number ILR10, CBBEL's RE will inspect all erosion control measures installed during construction to insure they are in accordance with the Storm Water Pollution Prevention Plan (SWPPP). Proposed Resident Engineer, Ms. Rebekkah Carney will perform this inspection weekly and generate a report detailing any deficiencies that need to be addressed. This report will be given to the Contractor, as well as the Village. CBBEL's erosion specialist, Casey Perry, CPMSM, will assist the RE with the proper application of SESC practices and Best Management Practices (BMP's) to control the off-site discharge of sediments and pollutants.

Task 6 – Traffic Control Inspection

Perform barricade checks as outlined in Section 700: Work Zone Traffic Control of IDOT's Construction Manual. At a minimum, CBBEL shall perform the following:

- One detailed daytime inspection per week and two detailed nighttime inspections per month. These inspections shall be recorded on a format in accordance with Village policy or Form BC 726, Traffic Control Inspection Report.

- In addition, the RE will drive through the jobsite daily and document the drive through in the project diary.
- If traffic control is placed during a proposed winter shutdown, two drive-throughs per week will be performed.

If major deficiencies are observed, the RE will notify the contractor immediately and insure that the contractor takes the appropriate actions as outlined in the contract documents.

Task 7 – CDBG Documentation

CBBEL will complete the appropriate paperwork for the CDBG funding, this includes employee interviews, complete pay requests and change orders and final interviews.

1. Review of contractor paperwork for completeness and accuracy.
2. Process weekly and monthly progress reports.
3. Coordinate with Contractor for CDBG compliance.

Task 8 – Post-Construction

1. Prior to final inspection, submit to the Contractor a list of observed items requiring correction and verify that each correction has been made.
2. Conduct final inspection with the Village and prepare a final punch list of items to be corrected.
3. Verify that all items on the final punch list have been corrected and make recommendations to the Village concerning acceptance.
4. Prepare final pay estimate and change order(s) for the Village's approval.
5. Verify all necessary material inspection has been received and documented.
6. Submit the job box to the Village with all pertinent project information.
7. CBBEL will maintain a set of working drawings showing changes in the work during construction. CBBEL will also complete a Topographic As-Built Survey of the detention area in AutoCAD to be delivered via pdf format.

Task 9 – Material QA Testing

1. Material Solutions Laboratory will provide QA testing outlined in the IDOT Project Procedures Guide.
2. The following items are not included:
 - i. QA plant testing
 - ii. Soil analysis
 - iii. Additional testing required for Change Order or Contingency Allowance items.

ESTIMATED FEE

The costs of the services provided are as follows and will not be exceeded without prior approval:

Task	Description	Cost
Task 1	Pre-Construction	\$ 2,115
Task 2	Shop Drawing Review	\$ 6,005
Task 3	Construction Observation/Documentation	\$ 88,360
Task 4	Survey	\$ 9,495
Task 5	Erosion Control Inspection	\$ 1,695
Task 6	Traffic Control Inspection	\$ 1,130
Task 7	CDBG Documentation	\$ 10,025
Task 8	Post Construction	\$ 9,385
Task 9	QA Material Testing (MSL)	\$ 14,881
	Direct Cost (Vehicle Usage - 85 Working Days)	\$ 5,525
	Total:	\$148,616

We will bill you at the hourly rates specified on the attached Schedule of Charges and establish our contract in accordance with the previously agreed upon General Terms and Conditions. Direct costs for blueprints, photocopying, mailing, mileage, overnight delivery, permit fees, data collection fees, messenger services and report compilation are included in the fee estimate. These General Terms and Conditions are expressly incorporated in and are an integral part of this contract for professional services. It should be emphasized that any additional requested meetings or additional services are not included in the preceding fee estimate and will be billed at the attached hourly rates.

Please sign and return one copy of this agreement as an indication of acceptance and notice to proceed. Please feel free to contact us at any time.

Sincerely,



Christopher B. Burke, PhD, PE, D.WRE, Dist.M.ASCE
President

Encl. Schedule of Charges, 2018
General Terms and Conditions (July 20, 2016)

THIS PROPOSAL, SCHEDULE OF CHARGES AND GENERAL TERMS AND CONDITIONS ACCEPTED FOR THE VILLAGE OF VILLA PARK:

BY: Albert Butthous
TITLE: PRESIDENT
DATE: 12-14-18

PROJECT TEAM



ORGANIZATIONAL CHART

JACKSON POND OVERFLOW PROJECT



PROJECT MANAGER
KEVIN WILSON PE

RESIDENT ENGINEER
REBEKKAH CARNEY

STRUCTURAL
CHRISTOPHER FAUST, PE

INSPECTOR
ANDREW BOURKE, EI

ELECTRICAL ENGINEER
GERALD HENNELLY

LANDSCAPE ARCHITECT
DOUGLAS GOTHAM, LLA, ASLA

PUBLIC OUTREACH
JOHN HEINZ

SURVEY
JOHN MURPHY, PE, PLS

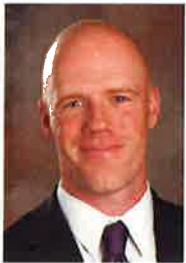
EROSION CONTROL
CASEY PERRY, CPMSM

QA MATERIAL TESTING
Material Solutions Laboratory (MSL)

PROJECT TEAM

CBBEL is a multi-disciplined firm that is dedicated to providing our clients with the personal attention required of constructing projects of this scope. We are committed to providing the Village of Villa Park with a quality product, which meets the Village's schedule and budget constraints, when the project is complete.

CBBEL will provide the following professionals as the project team, whose resumes can be found within this section. Our proposed Resident Engineer is currently completing a large diameter Relief Sewer Project in Libertyville and is not committed to another project as of September 2018; he can begin full time duties immediately. Our Resident Engineer is experienced in sewer construction, excavation, and electrical items that are anticipated to be completed during the **Jackson Pond Overflow Project**. We do anticipate additional engineering efforts by CBBEL staff to support our Resident Engineer, which includes work related to CDBG documentation, site inspection, structural, electrical, and landscaping submittals; and site survey to determine earthwork totals. The project team is available for the duration of the project.



KEVIN WILSON, PE | PROJECT MANAGER

With over 16 years of experience in construction engineering, Mr. Wilson has worked on numerous rehabilitation projects including sewer and water main improvements. He is proficient in documentation for various types of funding including LAPP, ARA, MFT, ERP, IEPA loan funding, and CDBG grants. Kevin is also the Assistant Department Head of the Construction Department. Kevin has previous experience in Villa Park residing as the Resident Engineer on the Twin Lakes Subdivision Sidewalk Improvements project.

REBEKKAH CARNEY | RESIDENT ENGINEER

Rebekkah Carney is a Civil Engineer with 7 years of experience in Construction Engineering. Rebekkah will serve as the Resident Engineer. Rebekkah's resident engineering duties including on-site construction observation, documentation of quantities, coordinates and/or verifies materials testing and inspection, review of contractor pay requests, coordinates preparation of as-built drawings and finalization of contracts. Some of Rebekkah's recent work experience includes the First Division Sewer Separation Project and Roadway Resurfacing in Riverside.



ANDREW BOURKE, EI | INSPECTOR

Andrew Bourke is a Civil Engineer with 3 years of experience in Construction Engineering. He will serve as a part-time Inspector for the project as the construction schedule necessitates. Some of his recent projects include a reconstruction project on Sheridan Road in Evanston, a resurfacing project in the Village of Hawthorn Woods and parking lot improvement project at the Fire Department in the Village of Clarendon Hills.

JOHN HEINZ | PUBLIC OUTREACH

Mr. Heinz joined CBBEL after 32 years of municipal employment. He has hands on experience in nearly every aspect of Public Works Operations and Municipal Engineering, including Director of Public Works for the Village of Libertyville from 2007 to 2015. 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 in Project Management and Business Development.



CHRISTOPHER FAUST, PE | STRUCTURAL

Mr. Faust is a Project Engineer with experience focused in both structural and construction engineering. Mr. Faust focused on the structural aspects of the I-90 Roadway and Bridge Reconstruction project and worked closely with Kevin Lill in the process. Christopher will be available to review shop drawings for the pedestrian bridge on the Jackson Pond Overflow Project.



GERALD HENNELLY | ELECTRICAL ENGINEER

Mr. Hennelly is a Senior Project Manager experienced in a wide range of engineering disciplines including electrical, mechanical and civil engineering design. Gerry's roadway lighting/electrical field and design experience provides him with the ability to assist our Phase III staff with the expertise required for shop drawing review, answering RFI's, and assisting in the field as necessary.



DOUGLAS GOTHAM, LLA, ASLA | LANDSCAPE ARCHITECT

Mr. Gotham is a Senior Landscape Architect experienced in the design of Public Landscape Architecture. Doug will be available to assist Rebekkah Carney (Resident Engineer) with the ball field shop drawing review.



CASEY PERRY, CPMSM | EROSION CONTROL

Mr. Perry will assist Rebekkah Carney (Resident Engineer) on NPDES compliance and conduct audits of NPDES record keeping and construction site compliance with water quality standards. Casey's expertise provides clients with cost effective soil erosion control and sediment control recommendations, coordinate remedial actions, and act as liaison between clients, contractors, and regulators.



JOHN MURPHY, PE, PLS | SURVEY

John is a Professional Engineer and Land Surveyor accountable for managing office and field survey personnel. His responsibilities include establishment and maintenance of survey procedures; budgets and contract preparation; logistical planning and research; and supervision of staff and calculations of survey data.

MATERIAL SOLUTIONS LABORATORY - QA MATERIALS

In addition to CBBEL staff, we will be using MATERIAL SOLUTIONS LABORATORY (MSL) for any QA Material Testing that may be needed in accordance with the project specifications and IDOT's Project Procedures Guide. CBBEL works with MSL often, so scheduling and communication of testing and results is easily achieved.

MSL is a company committed in providing clients with excellent service and engineering expertise in the construction industry. MSL is an Illinois Department of Transportation (IDOT) Disadvantage Business Enterprise (DBE) certified Professional Civil Engineering Firm pre-qualified in Quality Assurance and Quality Control providing complete Field and Laboratory Materials Testing for a variety of construction requirements as well as engineering consulting services.

MSL is a versatile company, certified to provide engineering services to the Construction Industry. Their specialties include but are not limited to Environmental Engineering, Geotechnical Engineering, Construction Observation, and Materials Testing. Their highly skilled certified field technicians are signatory to the International Union of Operating Engineers, Local 150.

Civil Engineer experienced in construction engineering. Responsibilities include construction observation, project reports, documentation of quantities, review of contractor pay estimates, coordination of materials testing and inspection, site surveys and interaction with the contractor and client. Observed activities include roadway, water main, sanitary sewer, storm sewer, streambank stabilization, and retaining wall construction. Civil design experience consists of resurfacing and reconstruction projects which have included water main, storm sewer, sanitary sewer, and combined sewer design.

YEARS EXPERIENCE: 16
YEARS WITH CBBEL: 16

EDUCATION

Bachelor of Science, 2002
Civil Engineering
University of Illinois at
Urbana-Champaign

CONSTRUCTION

FAU Route 2853 (Chicago Avenue/Sheridan Road), Evanston: Resident Engineer for construction of Chicago Avenue through downtown Evanston and Sheridan Road through the Northwestern University Campus to the Wilmette Village limit. Net length of improvements was 1.87 miles; Chicago Avenue included HMA resurfacing, Sheridan Road included 3 to 4 lanes of PCC reconstruction with new protected bike lanes. New items related to protected bike lane included bicycle traffic signals and radar detection. Additional work included new traffic signals, ADA improvements, water main replacement, and landscaping. Project was on an accelerated schedule in order to accommodate Northwestern University school calendar and was funded with Federal, ITEP, and Local funds.

PROFESSIONAL REGISTRATION

Professional Engineer, IL,
062.059552, 2006

CERTIFICATIONS

Documentation of Contract
Quantities, IDOT, 17-12354

Material Management of
Job Sites, IDOT

PROFESSIONAL DEVELOPMENT

IDOT QC/QA Courses:

Mixture Aggregate Technician
Course

Bituminous Concrete Level 1
Technician Course

Bituminous Concrete Level 2
Technician Course

Portland Cement Concrete
Level 1

Troxler Nuclear Gauge Safety
Training Class

STTP-S11 Hot Mix Asphalt
Field Inspection

STTP-S33 Soils Field Testing
and Inspection

TT – ADA/PROWAG

Twin Lakes Subdivision Sidewalk Improvements, Villa Park: Resident Engineer for construction of a new sidewalk in a subdivision with an existing rural ditch typical section. Sidewalk construction included approx. 74,000 SF of new PCC Sidewalk with ADA accessible crossings. Additional improvements included installation of pipe culverts, driveway replacements, and ditch regrading to accommodate new drainage patterns. A retaining wall was installed adjacent to the sidewalk in front of Target due to ROW space restrictions. Project was funded with Federal and Local Funds.

2016 Road Program, Wilmette: Resident Engineer responsible for construction engineering and observation for resurfacing or rehabilitation of 5,050 LF of roadways throughout the Village. Roadway construction included approx. 14,000 SY of HMA partial depth resurfacing, and approx. 1,300 SY of brick pavement reusing existing brick pavers. Additional improvements included reconstruction of sidewalks, curb and gutter, and additional drainage improvements as necessary. Project was funded with MFT and Local Funds.

FAP Route 326 (IL 47), IDOT, Yorkville: Providing Phase III assistance to IDOT Resident Engineer and Inspectors from 2012-2015. Serving as Assistant Resident Engineer responsible for construction documentation and observation; managed CBBEL and subconsultant staff that assisted with documentation and observation. Project included 5.04 km of pavement reconstruction, lane additions, storm sewer, traffic signals, and other work along IL Route 47 from just north of IL Route 71 continuing northerly to just north of US Route 34.

ADA Ramp Program, CDOT: Resident Engineer responsible for construction engineering and observation of replacement of previously constructed ADA ramp locations not meeting CDOT ADA requirements. Far South Area included 12 ramp locations and South Area included 40 locations. CDOT QC/QA requirements for ADA ramp replacements were followed. Engineering responsibilities included submittal review, daily observation, measurement of quantities, pay estimates, coordination of material inspection, and documentation on CDOT's online web system.

Book Road LAPP Resurfacing, Naperville: Resident Engineer responsible for construction engineering and observation for resurfacing of Book Rd from 111th St to 87th St. Roadway construction included 3.07 miles of partial-depth asphalt pavement. Resurfacing required approx. 2,700 tons of Polymer HMA N50 Leveling Binder and 6,300 tons of Polymer HMA N90 Surface Course "F" Mix. Additional roadway improvements included curb and gutter spot repairs, utility structure adjustments, and thermoplastic pavement markings. Sidewalk improvements were completed where necessary, including new sidewalk ramps meeting ADA standards at all roadway crossings within the project limits.

Road and Relief Sewer Project, Wilmette: Project Engineer and Resident Engineer responsible for construction engineering and observation including: verifying that contractor was in conformance with plans and specifications, preparing pay estimates and change orders. Project consisted of partial depth resurfacing of over 1.1 total miles of various residential roadway improvements. Utility construction included 600' of 18" sanitary sewer removal and replacement,



396' of 18" Relief Sewer, 768' of 24" Relief Sewer, 984' of 42" Relief Sewer, 14 Relief Sewer manholes and a 10' diameter junction chamber. Project was funded using MFT and Local Funds.

Conway Park Sidewalk Improvements, Conway Park Owners Association, Lake Forest: Resident Engineer responsible for construction engineering and observation including: verifying that contractor was in conformance with plans and specifications, preparing pay estimates and change orders. Project consisted of constructing a 36,000 SF sidewalk to provide a continuous walking path throughout the Conway Park office park corridor. Additional improvements included removing and replacing curb and gutter, improving handicap accessibility, pavement markings, and landscaping regarding and restoration.

Glenview Road Resurfacing, Wilmette: Resident Engineer responsible for construction engineering and observation including: verifying that contractor was in conformance with plans and specifications, preparing pay estimates and change orders. Project consisted of resurfacing over 0.5 miles asphalt pavement. Additional improvements included curb and gutter spot repairs, sidewalk replacement, and PCC Driveway replacement. Detector loop replacement was coordinated with CCHD. Project was funded using ERP funds.

95th Street LAPP Resurfacing, Naperville: Resident Engineer responsible for construction engineering and observation for resurfacing of 95th St from Plainfield-Naperville Rd to IL Route 59. Roadway construction included approx. 67,100 SY of partial-depth asphalt pavement. Resurfacing required approx. 3,600 tons of Polymer HMA N50 Leveling Binder, and 6,200 tons of Polymer HMA N90 Surface Course "F" Mix. Additional roadway improvements included curb and gutter spot repairs, utility structure adjustments, and thermoplastic pavement markings. Sidewalk improvements were completed where necessary, including new ramps meeting ADA standards.

2010 Road Program, Wilmette: Resident Engineer responsible for construction engineering, layout, and observation for reconstruction and resurfacing of various streets. Roadway construction included approx. 1.03 total miles of various residential roadway improvements. Utility construction included 845 LF of combination sewer removal and replacement, reconnecting existing sewer services, and manhole removal and replacement. Roadway improvements included curb and gutter removal and replacement, driveway removal and replacement, landscaping and pavement markings.

10th Street/Wilmette Avenue ARA Resurfacing, Wilmette: Resident Engineer responsible for construction engineering and observation for resurfacing of 10th St and Wilmette Ave. Roadway construction included approx. 12,000 SY of HMA resurfacing, curb and gutter spot repairs, sidewalk improvements with new ramps meeting ADA standards, and various other roadway improvements.

Arrowhead Subdivision Roadway Improvements, Algonquin: Resident Engineer responsible for construction engineering and observation. Roadway construction included approx. 18,000 SY of full-depth asphalt pavement, curb and gutter construction, and various other roadway improvements. Utility construction included approx. 6,000 LF of storm sewer, 2,500 LF of water main, and additional drainage improvements where necessary.

Huntington Drive North Resurfacing (ARRA), Algonquin: Resident Engineer responsible for construction engineering and observation. Roadway construction included approx. 15,500 SY of partial depth resurfacing, and approx. 1,900 SY of HMA pavement patching. Additional improvements included reconstruction of sidewalks, curb and gutter, and additional drainage improvements as necessary.

2009 LAPP Program (Various Streets), Algonquin: Resident Engineer responsible for construction engineering and observation for resurfacing and reconstruction of various streets throughout the Village. Roadway construction included approx. 64,000 SY of partial depth resurfacing, 6,400 SY of full-depth reconstruction, and HMA pavement patching. Additional improvements included reconstruction of driveways, sidewalks, curb and gutter, and detector loop installation. Reconstruction of Bunker Hill Dr was completed at night in order to minimize impact to the traveling public.

Randall Road and Huntington Drive Traffic Signal Modernization, Algonquin: Resident Engineer responsible for construction engineering and observation for installation of timed pedestrian signals and crosswalk improvements at the intersection of Randall Rd and Huntington Dr. Project was located within McHenry County ROW and required coordination between the Village and the County.

2009 MFT Street Program, Algonquin: Resident Engineer responsible for construction engineering and observation for resurfacing of Butterfield Dr and Providence Dr. Roadway construction included HMA pavement patching, and approx. 4,700 SY of hot-in-place heater scarifying of existing pavement before HMA surface course placement.



Civil Engineer trained in the fields of civil, construction and municipal engineering. Experience includes construction observation on project types such as water main replacement, storm sewer construction, curb and gutter replacement, and road resurfacing. Responsibilities include construction observation and inspection.

Software Experience: AutoCAD, MicroStation, MS Word, MS Power Point, MS Excel

First Division Sewer Separation Project, Riverside: Resident Engineer responsible for design/build project providing a separated storm sewer system in the First Division portion of the Village, conveying clear water to its historical outfall, the Des Plaines River, rather than the MWRD wastewater treatment plant. Improvements included separating existing combined sewer and constructing a dedicated storm sewer. The storm sewer provides additional capacity in MWRD interceptor sewer resulting in less sewer surcharge both upstream and downstream of the Des Plaines River. Project provides residents with a reduced risk of flooding and sewer backups as well as reducing the frequency of combined sewer overflows into the river. Project consisted of construction of approx. 9,300' of storm sewers ranging from 12" to 24" diameter and replacing 4 storm water outfalls into the Des Plaines River, temporary pavement patching, curb and gutter replacement, and ADA improvements. Services included design of plans, writing specifications, quantity take off, preparation of bid documents, on-site coordination, construction documentation, shop drawing/mix design review, construction observation, post-construction final inspection, NPDES site-audits and pay estimates.

2017 Road Resurfacing Project, Riverside: Resident Engineer responsible for day-to-day project coordination and point-of-contact. This design/build project included milling and resurfacing, spot curb repairs, identification and improvement of structures, sidewalk improvements at crosswalks to comply with current ADA standards, and roadway restriping. Services included design of plans, compiling and editing specifications, quantity take off, preparation of bid documents, on-site coordination, project documentation, shop drawing/mix design review, and construction observation.

East Burlington Streetscape and Resurfacing Project, Riverside: Resident Engineer responsible for construction observation. With STP funding and additional funding through the ITEP Program, the Village was able to complete a streetscape enhancement project and resurfacing project through the Central Business District concurrently. STP funded work involved resurfacing, drainage structure improvements, curb and gutter replacement, ADA improvements, pavement patching and thermoplastic pavement markings. Additionally, the ITEP funded work included replacement of existing sidewalks with decorative permeable concrete pavers; bump-outs for mid-lock crossings; high visibility preformed thermoplastic paver-type crosswalks; plus, new amenities and enhanced landscaping elements including limestone planter boxes, perennials, trees, shrubs, trash and recycling receptacles, benches and lighted bollards. New up lighting for trees and irrigation was also included. Services included design of plans, compiling and editing specifications, quantity take off, preparation of bid documents, on-site coordination, MISTIC and ICORS documentation for state project, shop drawing/ mix design review, construction observation, post-construction final inspection, weekly reports, final close-out documentation and pay estimates.

East Quincy Street and Longcommon Road Resurfacing Project, Riverside: Resident Engineer responsible for resurfacing of 2.12 miles of roadway. Improvements included milling and resurfacing, spot curb repairs, identification and improvement of 212 structures, sidewalk improvements at 40 crosswalks to comply with current ADA standards, high visibility printed crosswalks and roadway restriping. Services included design of plans, compiling and editing specifications, quantity take off, preparation of bid documents, on-site coordination, MISTIC and ICORS documentation for state project, shop drawing/mix design review, construction observation, post-construction final inspection, weekly reports, final close-out documentation and pay estimates.

Northside Stormwater Management, River Forest: Construction Engineer. This flood mitigation project consisted of installation of approx. 19,000 feet of storm sewer pipe ranging in size from 96-inch to 12-inch diameter for storm sewer separation to alleviate residential flooding. Improvements included cast-in-place outfall structure at the Des Plaines River, water main, storm sewer installation, combined sewer installation, conflict structures, road reconstruction, pavement patching, and roadway resurfacing. Services included pre-construction bid

YEARS EXPERIENCE: 7
YEARS WITH CBBEL: 5

EDUCATION

Bachelor of Science, 2011
Civil Engineering, Michigan
Technological University

CERTIFICATIONS

Documentation of Contract
Quantities, IDOT, 18-13296
ICORS Training Seminar, IDOT

PROFESSIONAL DEVELOPMENT

PCCI/IDOT/ACI Concrete
Field Technician - Grade 1

PROFESSIONAL AFFILIATIONS

American Society of
Civil Engineers



preparation, conferences and recommendations; shop drawing/mix design review; construction observation; post-construction final inspection and pay estimates; and NPDES site audits and final report.

2014 Street Rehabilitation (North and South), Elmwood Park: Construction Engineer. Provided construction observation services for rehabilitation of approx. 10 miles of roadway. Rehabilitation included structure replacements and reconstruction, curb replacement, ADA compliant crosswalks, and HMA resurfacing. Services included pre-construction bid preparation, conferences and recommendations; shop drawing/mix design review; construction observation; post-construction final inspection and pay estimates.

2013 Flood Mitigation, Elmwood Park: Construction Engineer. Provided construction observation services for the first three project phases of the Flood Mitigation Project: 80th Avenue Storm Sewer Stage 1 Project, Storm Water Pump Station, and Storm Sewer and Detention Reservoir. Services included pre-construction bid preparation, conferences and recommendations; support for utility relocation; shop drawing/mix design review; construction observation; post-construction final inspection and pay estimates; and NPDES site audits and final report.

Balmoral Avenue at I-294, Phase III, Rosemont: Engineer Intern. Project included new off-ramp for SB I-294 at Balmoral Ave. This included an all-electronic 2-lane toll plaza with building, 2,500' of ramp lighting, and 3,800' of roadway lighting encompassing 5 signalized intersections and modifications to 4 existing lighting systems.

I-94 (Route 60 to Route 132) Drainage and Utilities, Strand Associates, Inc.: Engineer Intern. Reconstruction of the Tri-State Tollway. CBBEL drainage responsibilities included interpreting drainage subdivides, assessing existing drainage systems and overland flow characteristics, identifying existing drainage problems, and hydraulic modeling. (This includes the mainline NB/SB and several overhead bridges in multiple contracts). Detention volumes and release rates were calculated by watershed. Plan preparation included inlet spacing for mainline roadway, bridge deck scuppers, sizing of storm sewer using Hydraflow software and preparation of drainage design calculations. Drainage calculations included sizing of multiple cross road culverts using HY8 computer application. Cost estimate and quantity calculations were provided for each section of the project.

Tri-State Tollway (IL 60 to IL 137), Illinois Tollway, Bowman, Barrett and Associates, Inc., Lake County: Engineer Intern. This was a multi-year reconstruction project, which added one lane in each direction to the existing 6-lane facility. Improvements consisted of embankment widening, culvert extensions and replacements, PCC pavement reconstruction, HMA shoulders, modification of Route 137 diamond interchange, bridge substructure widening and deck reconstruction, retaining walls, noise walls, sight screen walls, reconstruction of median barrier and median drainage systems, permanent and temporary roadway lighting, permanent and temporary relocations of the Tollway's communications network, signing, pavement marking, maintenance of traffic, erosion control and final landscaping.

Balmoral Avenue at I-294 Phase I, Illinois Tollway, Rosemont: Engineer Intern. Project consisted of Phase I and Phase II Engineering for the exit ramp/underpass to connect SB Mannheim Rd to Balmoral Ave. Phase I services included a CE Project Development Report prepared and processed through IDOT/FHWA; Location Drainage Study and Pump Station Hydraulic Report; Type Size and Location drawings for two bridge structures and two retaining walls. Phase II services included plans, specifications and cost estimates for the following major design components: Two 20' high retaining walls and two single span precast prestressed concrete girder bridges to span Mannheim Rd over the proposed underpass ramp; an exit ramp terminal designed in accordance with IDOT standards and designed to accommodate a future 6-lane section on Mannheim Rd; pump station and detention facility tributary to IDOT storm sewer system. Extensive coordination and approval was required from JAWA and FAA in addition to IDOT, Chicago DOA and FHWA.

Norfolk Naval Shipyard, Department of Defense (Security Clearance Required)*: Nuclear Engineering and Planning Department, Refueling Engineer: Cognizant of all weekly and monthly reports for availabilities; assessed improvements and analyze monitor log reports; participated in Quality of Work Life Improvement Team and Refueling Improvement Team; practiced best known methods in radiation and contamination areas; maintained regulations of refueling facilities through design specifications; wrote procedures for shop workers to fix deficiencies or to sustain maintenance; developed a 15 year plan for future work availabilities; trained on nuclear engineering fundamentals.

**prior experience*



Civil Engineer experienced in construction engineering. Mr. Bourke's responsibilities include construction observation, documentation of quantities, pay estimates, site surveys, and interaction with the contractor and client.

YEARS EXPERIENCE: 3
YEARS WITH CBEL: 1

EDUCATION

Bachelor of Science, 2015
Civil Engineering,
Transportation
University of Illinois at
Urbana-Champaign

PROFESSIONAL REGISTRATION

Engineer Intern, IL,
061.039167, 2016

CERTIFICATIONS

Documentation of Contract
Quantities, IDOT, 16-11745

Fire Department Parking Lot Improvements, Clarendon Hills: Resident Engineer. \$260K local project including full depth concrete pavement reconstruction, HMA parking lot reconstruction, cast-in-place concrete retaining wall construction, storm sewer improvements, and car charging electrical improvements. Liaison between the Fire Department, Contractor, and Village. Responsibilities included project coordination, utility relocation coordination, daily observation, measurement of quantities, construction administration, review of Contractor pay estimates, material coordination and documentation, and completion of mark-ups for the record drawings for the Village.

Scherman Road Resurfacing, Hawthorn Woods: Resident Engineer. \$430K IDOT project of approximately 10,500 feet (1.98 miles) of roadway including partial concrete shoulder removal and replacement, HMA patching, HMA resurfacing, and thermoplastic striping. Responsibilities included coordination of the required work with the Village and its residents, daily observation, measurement of quantities, construction administration using ICORS, material coordination and documentation using MISTIC Entry Database, and completing record drawings.

Sheridan Road Reconstruction, Evanston: Construction Engineer. \$11M project involving the construction of over 3,600' of new PCC pavement alongside Northwestern University campus. Project also featured the construction of a fully protected 1.75 mile bike path, multiple bike medians, and 6 new signaled intersections catered to cyclists. This project was a direct result of Federal, State, and City effort to alleviate potholing and frequent patching as well as secure biker safety along Sheridan Road for local cyclists. Construction services included conferences and recommendations; support for utility relocation; construction observation, and frequent site survey.

I-90 Bridge Reconstruction, Illinois Tollway*: Construction Engineer. Tollway funded bridge reconstruction for the "Move Illinois" program. Worked on the \$17M Barrington Road and the \$35M Higgins Road (IL 72) bridges completing construction observation for all facets of bridge construction, project documentation throughout construction and final closeout, site survey, and pay estimates. This project included sewer improvements, concrete pavement reconstruction, inspection for concrete reconstruction of abutment, pier, deck, and parapet walls, and bridge electrical work.

*prior experience



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.

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.

YEARS EXPERIENCE: 35
YEARS WITH CBBEL: 3

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

Hall of Fame Award, Chicago
Metro Chapter APWA, 2016

Richard A. Welton Stormwater
Manager of the Year,
LCSCMC, 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)



**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.



Project Engineer with experience focused in both structural and construction engineering. Structural design experience includes Project Engineering for Phase I (BCR, TS&L) and Phase II; Structural Types including Highway, Pedestrian Bridges, Retaining Walls, and Box Culverts. Prior responsibilities include construction observation, project reports, documentation of quantities, pay estimates, coordination of material testing and inspection, and site surveys for clients. Tasked with the construction oversight of structures for clients including IDOT, Illinois Tollway, CDOT, and various municipalities. Current responsibilities include the preparation and review of structural plans and design calculations, performing shop drawing reviews, and performing bridge inspections.

Software experience includes: AutoCAD, MicroStation, Microsoft Office Products, LPILE, Enercalc, SAAP 2000, and ETABS.

I-90 (Jane Adams Memorial Tollway) Contract No. I-14-4206), Illinois Tollway: Oversaw the construction of all structural features along I-90 from Roselle Road to Higgins Road. Project consisted of the completed replacement and widening of a 4-mile stretch of both eastbound and westbound I-90. Improvements include new 10" PCC concrete pavement, subgrade improvements, asphalt shoulders, crash barriers, storm sewer, lighting and electrical, and structural improvements. Structures included a precast PCC I-beam supported dryland bridge, 3 precast concrete double barrel culverts, 9 retaining walls, and 11 noise walls. Bridge replacement included removal of existing single span dryland bridge and culvert and replacement with a 3 span precast PCC I beam bridge and new precast double barrel culvert and wing walls with cat in pile caps supported by both steel HP and shell piles. Retaining wall construction consisted of precast concrete panels supported by both concrete drilled shaft foundations and driven steel H-pile columns. Included in the wall construction were reinforced cast in place concrete moments slabs. Services included daily construction observation and verification that the contractor was in conformance with plans and specifications, quantity measurements, and coordination of material testing.

79th Street Vertical Clearance Improvements, CDOT: Resident Engineer responsible for observing and documenting construction progress. Services included daily construction observations and verification that the contractor is in conformance with the plans and specifications for the project, quantity measurements and pay estimates, business notification and addressing of resident and business concerns and coordination of material testing. This CDOT funded vertical clearance improvements project included the reconstruction of 600' of existing PCC pavement and barrier wall through an existing viaduct, the installation of new continuously reinforced concrete pavement, new watermain, replacement of curb and gutter, driveway, and sidewalk; replacement or installation of drainage structures and storm sewer laterals, hand railing installation, viaduct lighting improvements, and other related work.

I-90 (Kennedy Expressway) at Cumberland Avenue, IDOT: Assisted in construction engineering and managed material review and documentation for the removal and replacement of the structure carrying Cumberland Avenue over I-90, roadway reconstruction and widening, and resurfacing. The structure is being widened and lengthened, therefore, complete removal of the sub-structure and superstructure is required. The bridge will be built under traffic in two stages and the entire project completed in three stages. The bridge improvements include: 138' x 274' Bridge Deck with HP 12 X 53 Steel Piles, Soldier and Batter piles 35-60' long at the north and south abutments, 105' deep drilled shafts within the CTA ROW requiring coordination with the CTA for construction clearances and flagging, and soil retention systems for the drilled shaft installation adjacent to the CTA tracks. In addition to the bridge improvements, the project includes the widening and re-alignment of the ramp from I-90 EB to southbound Cumberland including removal and replacement of the retaining wall, modernization of six IDOT and CDOT traffic signals and installation of two new traffic signals including video detection, roadway lighting along Cumberland Avenue and Higgins Road, including underpass lighting along I-90 attached to the structure, roadway and ramp reconstruction at Cumberland and I-90, as well as resurfacing of Cumberland and Higgins, pipe jacking under I-90 from the southeast infield to the CTA tracks, and overhead and bridge mounted signs, project signage, and pavement markings.

2013 Watermain & Street Improvements, Cary: This MFT funded partial reconstruction project included the installation of new watermain, water services, and fire hydrants, replacement of curb and gutter, driveway, and sidewalk; replacement or repair of defective drainage structures and storm sewer laterals, HMA surface removal, reconstruction and

YEARS EXPERIENCE: 13
YEARS WITH CBBEL: 11

EDUCATION

Master of Science, 2014
Civil Engineering, Structural
University of Illinois at Chicago

Bachelor of Science, 2004
Civil Engineering
Purdue University

PROFESSIONAL REGISTRATION

Professional Engineer, IL,
062.062149, 2009

CERTIFICATIONS

IDOT Approved Team Leader,
Bridge Inspection, ID: 00969;
National Bridge Inspection
Standards (NBIS) Qualified

Documentation of Contract
Quantities, IDOT, 14-0157

Material Management of
Job Sites, IDOT

Certified Public Infrastructure
Inspector, APWA



resurfacing with HMA binder and surface; installation of thermoplastic pavement markings, restoration of parkways with topsoil and sod, and other related work. Performed the duties of full time resident engineer to observe and document the construction progress. The services included daily construction observations and verification that the contractor is in conformance with the plans and specifications, project surveying and layout, quantity measurements and pay estimates, residential notification and addressing of resident concerns and coordination of material testing.

2011-2013 Street Improvements, Westchester: These annual locally funded projects included the replacement of curb and gutter, driveway, and sidewalk; replacement or repair of defective drainage structures and storm sewer laterals, replacement of deteriorated sections of sewer, HMA surface removal, reconstruction and resurfacing with HMA binder, leveling binder, and HMA surface; installation of thermoplastic pavement markings, restoration of parkways with topsoil and sod, and other related work. Performed the duties of full time resident engineer to observe and document the construction progress. The services included daily construction observations and verification that the contractor is in conformance with the plans and specifications, project surveying and layout, quantity measurements and pay estimates, residential notification and addressing of resident concerns and coordination of material testing.

Spring Creek Subdivision Improvements (Section III),

Algonquin: The project included the spot replacement of curb and gutter, driveways, and sidewalks; adjustment and repair of drainage structures, lining of sanitary structures, HMA surface removal, reconstruction and resurfacing with HMA binder, leveling binder, and HMA surface; installation of thermoplastic pavement markings, restoration of parkways with topsoil and seed, and other related work. Performed the duties of part time resident engineer to observe and document the construction progress. The services included daily construction observations and verification that the contractor is in conformance with the plans and specifications, project surveying and layout, quantity measurements and pay estimates, residential notification and addressing of resident concerns and coordination of material testing.

Larson Lane MFT Improvements, Roselle: Completed construction engineering and observation for MFT funded partial reconstruction project for Larson Lane in Roselle. The project included the partial addition of curb and gutter, removal and replacement of driveways, and sidewalks; installation of drainage structures, HMA surface removal, reconstruction and resurfacing with HMA binder, leveling binder, and HMA surface; restoration of parkways with topsoil and seed, and other related work. Performed the duties of part time resident engineer to observe and document the construction progress. The services included daily construction observations and verification that the contractor is in conformance with the plans and specifications, project surveying and layout, quantity measurements and pay estimates, residential notification and addressing of resident concerns and coordination of material testing.

Pingree Road Segment 2 Reconstruction, Crystal Lake:

Assisted in construction observation services for the reconstruction of Pingree Road. The existing 3 lane urban roadway was increased to a five lane urban section including the installation of curb and gutter with storm sewer improvements. The roadway included the placement of new aggregate base, binder and surface courses, thermoplastic pavement markings and signage. Included in the project was the installation of a new cast in place retaining wall, sidewalk, and the installation of a new signalized intersection at the intersection of Pingree Road with Congress Parkway.

NB I-294 Exit Ramp at Balmoral, Rosemont: This project involves construction of a NB I-294 exit ramp at Balmoral, reconstruction of the SB entrance ramp and widening of the Balmoral Bridge over I-294. In addition, Balmoral Avenue was widened and resurfaced, new lighting installed and new traffic signals. The project included performance based retaining walls, which required design review and coordination with the Tollway and utilities. The contract required coordination with the Illinois Tollway including Authorizations to Proceed, shop drawing review, mainline lane closures and toll plaza electrical equipment installation. As an Assistant Resident Engineer, daily duties included construction observations, coordination of materials inspection, and documentation of quantities. Other duties included contract administration, and preparation of change orders and pay estimates.

Foster Avenue Improvements, Roselle: Completed construction engineering and observation for the partial reconstruction and resurfacing of Foster Avenue and various streets in Roselle. Proposed improvements consisted of the installation of PVC water main with new residential services and fire hydrants, HMA resurfacing, PCC edge band, sidewalk, and driveway installation, culvert removal and replacement, ditch grading, and landscaping. In addition, various drainage and landscaping improvements of Gorski Park on Foster Avenue were added to the project. Performed the duties of full time resident engineer to observe and document the construction progress. Documentation included daily construction observations, preparation of pay estimates and change orders, coordination of on-site material testing and on site liaison between the contractor, village, and residents.

2009 MFT Maintenance Program, Palos Hills: Completed construction engineering and observation for MFT funded resurfacing project for various streets in Palos Hills. The construction consisted of existing asphalt removal, asphalt patching, drainage improvements, curb removal and replacement, and resurfacing. Duties on the job consisted of daily construction observation, daily and weekly reports, quantity estimates, and coordination with contractors and residents.



Senior Project Manager experienced in a wide range of engineering disciplines including electrical, mechanical and civil engineering design. Experience also includes construction observation and resident engineering assignments and final review of completed projects. Further responsibilities include design and coordination of various types of mechanical and electrical projects, including potable water storage facilities, stormwater pumping stations, wastewater lift stations, street lighting installations recreation and sports lighting installations, recreational park designs, dry utility relocation projects and general public works and building improvement projects. Duties include the preparation of design plans, calculations and specifications, and field observation and contractor shop drawing review of construction projects. Performs electrical and mechanical site plan review for several municipalities as well as preparation of CAD design drawings for Mechanical and Electrical Engineering design projects.

LIGHTING

Street Lighting Master Plan, Evanston: Electrical Engineer. Project included using GIS data to determine existing conditions of light fixtures and power centers within City limits. From GIS data, study areas were determined within each of the cities wards encompassing intersections, residential neighborhoods, uncontrolled street crossings and school zones where a field survey and light meter readings were done to determine existing lighting conditions. Existing lighting conditions were presented at a public meeting and to a steering committee including various City staff, aldermen, commissions, residents and task forces to aid in developing various pilot programs to improve existing conditions including retrofits and new luminaires.

I-90 Roadway Reconstruction - Higgins Rd. to Roselle Rd., ISTHA: Coordination of electrical and mechanical construction. Duties included shop drawing review, construction observation, design of construction revisions, ComEd coordination and final inspection.

IL Rte. 83 @ 63rd St. Lighting Improvements, IDOT/Village of Willowbrook: Project included design of intersection roadway lighting for two intersections, photometric design, electrical design, utility coordination and assistance during construction.

Sheridan Rd. Lighting Improvements, Evanston: Design of new roadway lighting configuration for new bike lanes and pedestrian walkways for the Northwestern University campus.

Fountain Square Downtown Lighting Redevelopment, Evanston: Project included photometric design of the roadway lighting for 3 major roadways in the downtown area. Design also included reconfiguration of lighting circuits, voltage drop calculations and electrical design, along with construction observation.

Devon Ave. & 95th St. Streetscape Lighting Design, CDOT: Project included electrical and photometric design for new ornamental lighting systems along with the coordination of the removal and replacement of OEMC infrastructure.

Greenbrook/Tanglewood Homeowners Association Street Lighting Improvements, Hanover Park: Provided photometric design, electrical design, and construction observation for replacement of 200 incandescent light fixtures and replacing them with new LED type lighting units.

Kreutzer Road Lighting, Huntley: Provided roadway lighting design for the extension of Kreutzer Road from IL Route 47 to Main Street. Project included connection from two lighting controllers to power proposed lighting.

Harper College North Parking Campus Expansion and Lighting Improvements, Palatine: Design of new parking lot lighting systems and powering them through dedicated "smart panel" technology. Project also included IT infrastructure and cabling improvements which encompassed new security video camera system.

Lincolnshire Downtown Development: Project included site lighting design for a new retail development and access road lighting improvements. Design incorporated new irrigation system, coordination of new site utilities including ComEd, AT&T, Nicor, Comcast, and Village water and sewer service lines and bridge lighting.

YEARS EXPERIENCE: 33
YEARS WITH CBBEL: 22

EDUCATION

Associate of Science, 1987
Electronic/Computer
Technology Control
Data Institute

CERTIFICATIONS

ICORS Training Seminar, IDOT

PROFESSIONAL DEVELOPMENT

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

ComEd New Business Services,
2009

Steel Tank Institute (STI)/SPFA
Steel Water Tank Design and
Construction Seminar, 2009

Writing at Work, Advanced
Technical Writing, 2008

Highway Lighting Seminar,
ACEC Illinois & IDOT, 2006,
2014

National Electrical Code
Review, 2005

PROFESSIONAL AFFILIATIONS

International Code Council

Irish Engineers & Contractors



Highlands of Algonquin Roadway Lighting Design: Design of LED type ornamental lighting system for mixed use residential subdivision and golf course community. Design included two independently controlled lighting systems for two different areas within the subdivision.

Riverside Square Ornamental Lighting System and Streetscape Electrical Design, Algonquin: Design included extending the Village's existing lighting system to illuminate roadways within the new mixed use condominium development at the intersection of IL Route 31 and Algonquin Rd. Design also included electrical elements to allow for future expansion of the new portion of lighting system.

Downtown Redevelopment Roadway Lighting, Flossmoor: Design of LED ornamental lighting system to replace the Village's 50 year old system. System was designed to incorporate future streetscape improvements proposed by the Village.

I-294 at IL Route 137, Lake County: Design of 5,500 LF of new continuous freeway lighting system in each direction for widening of I-294 north and south of IL Route 137 and intersection lighting design for 4 signalized exit and entrance ramps. Project utilized approx. 75 lighting units with 400W HPS roadway luminaires mounted on 50'-0" mounting height aluminum poles on 15' truss mast arms along with 150W HPS Wall Pak Type Lighting Units for Underpass Lighting. The Main Line lighting is controlled by a centrally located Radio Controlled Lighting controller and Intersection transition Lighting is controlled out of the traffic signal controller Transfer Cabinets. Project also included design and installation of 1,500 LF of duct bank for the installation of fiber optic network cable for Illinois Tollway Communications, Surveillance and Lighting Control.

Main Street Lighting Phase 1, Lombard: Resident Construction Engineer for the Village's largest lighting project which included installation of 110 ornamental lighting units and approx. 4 miles of conduit and wire.

North Avenue Frontage Road Ornamental Lighting, Lombard: Project consisted of coordination of lighting design with concurrent IDOT (IL 64) North Ave Reconstruction Project from IL 53 to Addison Rd Proposed Roadway Lighting System.

Uptown Redevelopment Roadway Lighting, Park Ridge: Design consisted of a complete reworking of the City's Uptown District from open areas to mixed use residential and commercial development which including converting existing roadways into pedestrian friendly environment. Lighting design included ornamental roadway type poles and luminaires mixed with pedestrian scale luminaires and poles and combination traffic signal and lighting poles for 3 IDOT roadways and 4 City maintained roadways serviced by 4 lighting controllers.

Roy Avenue Lighting, Northlake: Design and construction of residential street lighting system for 1.2 miles of roadway. Project included design of 2 independent lighting controllers with 25 metal halide lighting standards. Design parameters included coordination with ComEd for removal of existing ComEd pole lighting units.

Balmoral Road Extension Street Lighting Phases I, II & III, Rosemont: Design of multiple lighting systems incorporating the use of over 140 lighting units. Projects close proximity to O'Hare Airport restricted overall mounting height to 17'-0". Project consisted of temporary lighting on Mannheim Rd for construction operations, bridge lighting mounted to parapet walls underpass lighting and upgrades to existing Village, City of Chicago, and IDOT lighting systems.

75th Street Extension Street Lighting, Willowbrook: Designed to incorporate 2 separate construction phases. Coordination of 2 phases was accomplished by providing one centrally located lighting controller with capacity of including the Phase II lighting at a later time.

Randall Road and Highland Avenue Intersection and Transition Lighting, KDOT: Design of roadway lighting system using 40 aluminum poles and cobra head luminaires, combination traffic signal and lighting mast arm combination.

Bridge Lighting Design and Construction for Historic Route 66 (IL 53) of Kankakee River, Wilmington: Design and construction of ornamental lighting system for existing bridge. Bridge lighting will follow existing downtown streetscape design.

PARKS AND RECREATION

Posphalla Park, Northlake: Design, shop drawing review and construction observation of a municipally maintained recreational facility complete with sprinkle fountain, exercise equipment, state park, and life size human checkerboard.

Memorial Park Fountain, Northlake: Assisted in design of ornamental fountain with a lighted 15' water feature and flood lighting for landscaping items.

Millennium Park, Northlake: Design and shop drawing review of full spectrum municipal recreational facility including park playground equipment, site lighting, site building, fountain feature and irrigation system.

Town Center, Carol Stream: Assisted in design of Award Winning Fountain Park and Concession Building. Site improvements included fountain electrical and mechanical design, site lighting, walkway lighting, two aerators, a pavilion, and a concession/washroom facility.

The Legends Golf Course, Bensenville: Design included architectural site lighting and sports lighting for golf course and driving range along with all related power and control.

John Mills Parks, Elmwood Park: Design of ornamental walkway lighting system including poles and lighting controller, throughout a multi-use neighborhood park.



Senior Landscape Architect experienced in the design of Public Landscape Architecture. Worked on over 200 park and recreation projects throughout the Midwest. Served as a public meeting facilitator, cost estimator, grant writer, project designer and project manager. Several projects have received Outstanding Facility Awards from the Illinois Park and Recreation Association.

Software Experience: AutoCAD, Sketchup, Photoshop, Illustrator, InDesign, Word, Excel, Power Point

Centennial Park, Elmwood Park: Landscape Architect: Developed park concepts and construction documents and assisted with grant applications for this community park. The park features a adult outdoor fitness equipment that utilizes synthetic safety surface, custom architectural monuments, raised bed vegetable garden, and a gazebo.

Village Park, Gurnee Park District: Landscape Architect. Developed park concepts and construction documents for a new neighborhood park. The park features a major playground feature and utilizes synthetic turf as its safety surface.

Engle Memorial, Lindenhurst Park District: Landscape Architect. Developed park concepts and construction documents and assisted with grant applications for various aspects of this community park. The park features a day care playground feature that utilizes synthetic turf as its safety surface, a custom band shell, BMX facility, hockey facility, and a major skate park.

Main Street Master Plan, Cary: Landscape Architect. Created alternate conceptual designs for the renovation of the downtown portion of Cary's Main Street. Prepared various 3D illustrations so that the Village Staff could evaluate the appearance prior to construction.

Third Street Streetscape, Bloomingdale: Landscape Architect. Prepared various illustrations so that the Village Board could evaluate the projects appearance prior to construction. Prepared design and construction documents for decorative pavement, raised planters, and seat walls. Prepared a complete landscape plan.

Flag Avenue, Elmwood Park: Landscape Architect. Created alternate conceptual designs for the renovation of the main access route into the Village's downtown area. Prepared various 3D illustrations so that the Village Board could evaluate the appearance prior to construction. Prepared design and construction documents for decorative pavement and decorative light columns.

Donald E. Stephens Fountain, Rosemont: Designed and detailed a decorative fountain and site amenities for the Donald E. Stephens Park. Prepared various 3D illustrations so that the Village board could evaluate the appearance prior to construction.

Various Landscape Plans: Prepared various landscape plans for new facilities to meet community requirements in the following communities: Bartlett, Bolingbrook, Channahon, Chicago, Glenview, LaGrange, Lombard, Lyons, Orland Park, Rosemont, and Sycamore.

Downtown Streetscape, Huntley: Landscape Architect. Prepared design and construction documents. CBBEL produced various illustrations so that trustees and citizens could evaluate the projects appearance. We developed full construction documents for the construction of decorative pavement, raised planters, wayfinding signs and landscape.

East Burlington Streetscape, Riverside: Landscape Architect. Produced design and construction documents. CBBEL prepared 3D images and a variety of concepts so that the Board and citizens could evaluate their different appearances. Made public presentations of the approved concept. We developed full construction documents for the construction of a raised masonry planters, permeable pavement and associated landscape.

Pocket Park, Lincolnshire: Landscape Architect. Based upon a conceptual design prepared by Village staff, CBBEL produced design and construction documents for the various aspects of the pocket park. Features included a curved arbor, decorative paving, walkway bollards, drinking fountain, benches, and associated landscaping.

Fairview Lift Station Landscape Screening, Lombard: Landscape Architect. Prepared decorative landscape screening for lift station from adjoining homes and park. Prepared 3D illustrations to help community understand what the appearance of the facility would be when completed.

YEARS EXPERIENCE: 39
YEARS WITH CBBEL: 14

EDUCATION

Bachelor of Science, 1979
Landscape Architecture
University of Wisconsin at
Madison

Additional Studies, 2001
Creating Wetland Parks:
Environmental Management
and Eco-Tourism
Harvard School of Design

Additional Studies, 2001
Water Reuse in Site Design
Harvard School of Design

PROFESSIONAL REGISTRATION

Landscape Architect, IL,
157000575, 1992

PROFESSIONAL AFFILIATIONS

American Society of
Landscape Architects

IL Chapter-American Society of
Landscape Architects

AWARDS

The Haven, Lindenhurst Park
District, IPRA Outstanding
Facility Award, 2003

Hunt Club Park, Gurnee Park
District, IPRA Outstanding
Aquatic Facility Award, 2000
IPRA Outstanding Aquatic
Facility Award,
National Winner, 2003

Hall Beach, Batavia Park
District, IPRA Outstanding
Aquatic Facility Award, 1993



CN Landscape Screening, Dyer, IN: Landscape Architect. Working with the Town Manager and residents of the area we prepared a design and bid documents for the screening of the CNRR tracks. The design consisted of a mile of mixed species evergreens.

Assisted Living Facility, Westmont: Landscape Architect. Prepared landscape plan for Village approval, 3D illustrations for adjoining residents review and construction documents for the installation of the landscape, the hardscape and raised bed vegetable gardens.

Schaumburg Convention Center: Landscape Architect. Produced design and construction documents for restoration and addition to the convention center landscape.

IL Route 53/Madison Street, Lombard: Landscape Architect. Produced design and construction documents for new parkway landscape.

IL Route 83/Peterson Road, Lake County: Landscape Architect. Produced design concepts, visual illustrations, construction documents and cost estimates for new median landscaping and rain gardens.

Gateway Element and Streetscape, Elmwood Park: Landscape Architect. Produced design and construction documents. CBBEL produced 3D images of variety of solutions so that the Board and citizens could evaluate their different appearances. We developed full construction documents for the construction of a masonry sign, internally illuminated sign and associated fountain. Also developed construction details and landscape plans for a 3 block stretch of Harlem Ave.

Permeable Pavement Parking Lot, NIU: Landscape Architect, Project Manager. Produced design and construction documents for a permeable pavement parking lot for the school of Nursing at NIU. CBBEL produced cross sections and illustrations for the University to review and approve. We assisted the University in obtaining bids for the work, reviewed the bids and made a recommendation. Project also included switching out all the old lights with new LED fixtures.

Round Lake Beach Lagoon: Prepared conceptual plans and illustrations for the site improvements. Assisted the Lake County Public Works Department in making presentations before the community. Prepared construction plans and details for the bid documents for the lagoons renovation.

Washington Park, Downers Grove: Designed the landscape and prepared the construction documents for the development of the park site. Items included softball field, fencing, playground, specialty elements.

Riverside 'Green' Parking Lot: Landscape Architect. Developed presentation concepts, landscape plan, rain garden design, and permeable paving details. CBBEL produced a series of different layouts. Once the Village selected a preferred layout, we developed 3D illustrations and color renderings for presentations to the various committees. Upon committee approval, we developed a landscape design for an ornamental landscape, a rain garden and permeable pavement details.

Firefighters Memorial, Algonquin: Landscape Architect. Produced design and construction documents for construction of a fire fighters memorial at Riverfront Park.

Gateway Element, Huntley: Landscape Architect. Produced design and construction documents for a gateway element. CBBEL produced 3D images of variety of solutions so that the Board and citizens could evaluate their different appearances. We developed full construction documents for the construction of a masonry sign with an LED display board.

Elmwood Park Flood Mitigation and Detention Reservoir: Prepared 3D images of proposed project. Assisted the client in making presentation to the community. Prepared a landscape plan to provide an ornamental screen for the facility.

Terrace View Pond, Lombard: Landscape Architect. Produced landscape restoration concepts for the alterations occurring to the pond shoreline in design alternatives. CBBEL produced a study of the use of Terrace View Ponds for additional stormwater storage. We looked at 6 alternative and developed associated impacts and costs.

Trinity Christian College Athletic Complex, Palos Heights: The design of new premier athletic field complex for the College's baseball, soccer and woman's softball teams. Project included the development of several layout options, permitting requirements, analysis of site grading.

Old Main Street Corner Plaza, Roselle: This began as a study for options for the renovation of a prominent space within the downtown area. We analyzed the physical character of the site, met with Village Staff and officials and learned of their desires and concerns. We then developed a document that illustrated possible development options with supporting cost estimates and reference information. We presented these options to the Village Board of Trustees who selected the elements, appearance, and defined the budget. We then developed 3D illustrations that represented their selections. Project consisted of focal point/community identifier, a water feature, seating, ornamental lighting, and a large porous paving plaza.

Civic Center Plaza, Glendale Heights: CBBEL prepared construction documents for the renovation of the south entry of the Village Hall. Reviewed the concept plan and then prepared 3D illustrations of what the proposed project would look like. Once they approved the plan we prepared full construction documents including; site civil, structural, electrical, plumbing, lighting, landscaping, and site furnishings.

Shoreline Stabilization, Fairfax Village Homeowners Association, Rolling Meadows: Landscape Architect, Designer and Project Manager. Met with the Homeowners Association and established their goals and objectives; developed options and presented them to the Committee and Association; and produced construction and bid documents. Fairfax Village's detention pond was experiencing erosion along its shoreline. We identified the most severe points of erosion and the designed treatments that addressed this issue along with treating the entire perimeter of the facility. We used a combination of emergent plantings, limestone ledge rock and ornamental landscaping.



Senior Environmental Resources Specialist focused on providing NPDES services for private developers, municipalities, utility companies, and departments of transportation. Has completed over 3,000 NPDES site compliance visits across 30 states. Provides clients with cost effective soil erosion control and sediment control recommendations, coordinates remedial actions, and acts as a liaison between clients, contractors, and regulators. Assists local municipalities in enforcing their MS4 Storm Water Management Plans by conducting audits of NPDES record keeping and construction site compliance with water quality standards. Has prepared more than 200 SWPPPs that meet NPDES requirements, develops Soil Erosion and Sediment Control Plans, and obtains ILR10 NPDES Permits. Has offered guidance to IDOT's Bureau of Materials and Physical Research on future BMP selection and standards.

Has worked on projects to resolve Notices of Violation from IEPA and USEPA in which clients contracted with CBBEL complete their Compliance Commitment Agreements, consent decrees, national storm water compliance programs, and bring their sites into NPDES compliance.

Developed Nation Storm Water Quality Program for USEPA 5-year Consent Decree for Fortune 500 ranked national homebuilder.

Coordinates environmental compliance for CBBEL Construction Engineering Department to complete construction projects that contain sensitive environmental and storm water management components. Assists in overall project management. Develops onsite storm water management plans, de-watering plans, SESC repairs, SWPPP revisions, QA/QC reviews, and regulatory agency coordination.

Conducts wetland delineations and writes wetland delineation reports. Provides clients with wetland permitting services, including agency coordination between USACE, IDNR, IEPA, and US Fish and Wildlife. Performs maintenance and monitoring tasks in wetland mitigation areas, including prescribed burns. Works with and contributes to a multidiscipline Environmental Department by participating in wildlife tracking and inventory projects, such as aerial deer surveys, mussel surveys, and fish surveys. Computer applications used include: ProLog, Floristic Quality Assessment, and Application Programs for the Chicago Region.

ComEd Grand Prairie Gateway, DuPage, Kane, DeKalb & Ogle Counties: Developed SWPPP and SESC Plan for a 66-mile overhead transmission line, consisting of 400 new monopole towers. Submitted Notice of Intent and obtained ILR10 NPDES permit coverage for site. Designed construction related de-watering criteria to meet IEPA standards for site. Coordinated with IEPA on approval of drilling polymer. Provided day-to-day compliance consulting and completed NPDES and wetland compliance inspections at the site. Met with environmental agencies during compliance inspections as part of USACE and IEPA permitting. Coordinated matting access routes and structure specific SESC measures for drill locations in environmental sensitive areas. Designed and implemented structure specific storm water management, SESC, and restoration plans. Provided QA/QC review of contractors SESC BMP installations. Trained field crews on NPDES storm water, USACE wetland, and T&E fish and mammal species compliance. Provided acceptable locations of concrete washout and de-watering operations on a structure-by-structure basis during the drilling process. Attended weekly construction meetings. Reviewed drain tile surveys and drain tile relocations. Coordinated installation of protective measures at archaeological sites within ROW. Provided support during vegetation clearing and restoration in environmentally sensitive areas.

ComEd Station 16 Waukegan, Lake County: Developed SWPPP and SESC Plan for a 71 acre substation site with contaminated soils and soil remediation. Submitted Notice of Intent and obtained ILR10 NPDES permit coverage for site. Designed construction related de-watering criteria to meet IEPA standards for site. Provided day-to-day compliance consulting and completed NPDES and wetland compliance inspections at site. Met with environmental agencies during compliance inspections as part of USACE, LCSMC, and IEPA permitting. Coordinated matting access routes and structure specific SESC measures for drill locations in environmental sensitive areas. Designed and implemented site specific storm water management, SESC, and restoration plans. Provided QA/QC review of contractors SESC BMP installations. Trained field crews on NPDES storm water, USACE wetland, and T&E species compliance (Blanding's turtle). Attended routine construction meetings. Provided field support during vegetation clearing and restoration in environmentally sensitive areas. Submitted project Notice of Termination and obtained NPDES permit sign-off.

YEARS EXPERIENCE: 14
YEARS WITH CBBEL: 14

EDUCATION

Bachelor of Arts, 2004
Environmental Studies
University of Iowa

CERTIFICATIONS

Designated Erosion Control
Inspector (DECI), Lake County

Certified Professional in
Municipal Stormwater Mgt.,
EnviroCert International, Inc.

USACE Wetland Delineation &
Management Training Program

Canadian National Railway
FRA 214 Workplace Safety

PROFESSIONAL AFFILIATIONS

Illinois Association of
Environmental Professionals

International Erosion
Control Association

Irish Engineers and
Contractors, Secretary



ComEd Station 11 Fisk, Chicago, Cook County: Developed SWPPP and SESC Plan for a substation site with contaminated soils and soil remediation. Submitted Notice of Intent and obtained ILR10 NPDES permit coverage for site. Designed construction related de-watering criteria to meet IEPA standards for site. Provided day-to-day compliance consulting and completed NPDES and wetland compliance inspections at site. Designed and implemented site specific storm water management, SESC, and restoration plans. Provided QA/QC review of contractors SESC BMP installations. Trained field crews on NPDES storm water compliance. Attended routine construction meetings. Field determined locations of Combined Sewer System. Submitted project Notice of Termination and obtained NPDES permit sign-off. Submitted project Notice of Termination and obtained NPDES permit sign-off.

ComEd Security Improvement Program (Various Projects): Developed SWPPP and SESC Plan for security improvement sites including TSS103 Lisle, TSS111 Electric Junction, and ComEd Lombard Substation. Submitted Notices of Intent and obtained ILR10 NPDES permit coverage for sites. Designed construction related de-watering criteria to meet IEPA standards for sites. Provided day-to-day compliance consulting, and completed NPDES and wetland compliance inspections at the sites. Designed and implemented site specific storm water management, SESC, and restoration plans. Provided QA/QC review of contractors SESC BMP and landscape installations. Trained field crews on NPDES storm water compliance. Attended routine construction meetings. Submitted project Notice of Termination and obtained NPDES permit sign-off.

ComEd ILR10 NPDES Compliance Audits (Various Projects): On behalf of ComEd Environmental, reviewed and commented on project SWPPPs, SESC Plans, NOI submittals, IDNR EcoCat submittals, and IHPA submittals for various ComEd projects during the designed and permitting stages. Coordinated with project team to ensure comments were addressed and deliverables were compliant. Reviewed IEPA delegation of authority letters. Completed monthly site audits to assess conditions at construction site that could impact storm water quality and observe if SESC BMPs installed in the field are operating correctly. Determined if site complied with IEPA ILR10 NPDES and USACE Clean Water Act permits. Reviewed field installed SESC BMPs for consistency with IL Urban Manual specifications. Trained field crews on NPDES storm water compliance. Sites include, but are not limited to: Rockford Training Facility, Rockford AMI Storage Building, Libertyville Cold Storage Building, Gooding's Grove Substation Improvements, Round Lake TSS42 Improvements, Prospect Heights TSS117, Fisk Substation, and TSS55 Improvements.

ComEd IEPA ILR10 NPDES Inspection and Reporting (Various Projects): Completed routine and post-storm NPDES site inspection reports. Per Part IV.D.4 of the IEPA ILR10 NPDES permit, site inspections were completed at least once every 7 calendar days and within 24 hours of the end of a rain event, or by the end of the following business or work day, that is that is 0.5 inches or greater. Following inspections, provided a signed ILR10 NPDES report summarizing scope of the site inspection, name and qualifications of personnel making the report, date of the site inspection, major observations relating to implementation of the

SWPPP, corrective actions required, and actions taken in response to previous inspections. Sites include, but are not limited to: TSS167 Plano, ComEd Waukegan ROW Clean-Up, ComEd Dolton ROW Clean-Up, and Lockport TDC 480.

ComEd SESC Inspection and Consulting (Various Projects): Developed SESC Plans for sites with environmentally sensitive components that do not qualify for IEPA ILR10 NPDES permit coverage. Designed construction related de-watering criteria to meet IL Urban Manual and USACE standards for the sites. Provided day-to-day compliance consulting, and completed compliance inspections at the sites. Designed and implemented site specific storm water management, SESC, and restoration plans. Provided QA/QC review of contractors SESC BMP and landscape installations. Trained field crews on NPDES storm water, USACE wetland, and T&E species compliance. Attended routine construction meetings. Oversight of permanent site stabilization, including native plant restoration. Sites include, but are not limited to: HED Habitat Transmission Lines, Arsenal Road Relocation, Dixon NERC L10721, Dixon L1106, ComEd Monee Laydown Yard, and ComEd 143rd/Route 59/DuPage River Lattice Tower Stabilization.

Big Timber Road Over Pingree and Tyler Creeks, Kane County: Provided day-to-day site management, assistance with project phasing, and completed inspections for overall environmental compliance. Met with KDSWCD for coordinating regulator inspections as part of USACE and IEPA permitting. Coordinated T&E fish and freshwater mussel baseline and relocation surveys with IDNR and USFWS. Implemented an onsite storm water management and multi-staged SESC plan with native seed mixes and polymer soil stabilization.

Stearns Road Corridor Environmental Management, Kane County: Provided day-to-day Phase III project management and inspection of post-construction environmental practices. Provided coordination and monitoring of environmental maintenance tasks including vegetation monitoring, mitigation compliance, technical reporting, prescribed burn assistance, agency coordination, and overall project management. Surveyed plant communities and locations of completed maintenance practices with Tremble GPS accuracy and to exhibits in ArcView, ArcInfo, and ArcGIS. Provided project documentation and material inspection, QA/QC review of plans and specifications, and contractor coordination and oversight.

Stearns Road Corridor Construction, Kane County: Provided day-to-day site management and inspections for overall environmental compliance. Met with KDSWCD for weekly regulator inspections as part of corridor Inter-Governmental Agreement. Developed plan to relocate Sugar Ridge Ditch through a temporary diversion channel, into the onsite storm water detention pond to allow a poured in place box culvert to be constructed in dry conditions, thus eliminating any construction water discharges to off-site environmentally sensitive areas. Implemented onsite storm water management and SESC plan involving hard pipe bypasses, temporary cofferdams, and bypass pumping operations. Designed and implemented de-watering operations that were filtered in polyacrylamide treatment swales.



Professional Engineer and Land Surveyor accountable for managing office and field survey personnel. Responsibilities include establishment and maintenance of survey procedures; budgets and contract preparation; logistical planning and research; and supervision of staff and calculations of survey data.

YEARS EXPERIENCE: 33
YEARS WITH CBBEL: 20

PROFESSIONAL LAND SURVEYING

ALTA/ACSM Land Title Surveys

The preparation of "ALTA/ACSM Land Title Survey" that meet the current accuracy standards jointly adopted by ALTA, ACSM and NSPS. For purposes of Title Insurance Companies to insure title to land without exceptions as to the many matters which might be evidenced by public records. Some projects include:

- Major General Emmett J. Bean Center, Lawrence, IN
- Prairie Holdings Corporation, Grayslake
- Hyatt, Lisle
- Hyatt, Deerfield
- Hyatt, Rosemont
- AAOS Building, Rosemont
- Fashion Outlets of Chicago, Rosemont

Plat of Annexation

The preparation of "Plat of Annexation" suitable for a municipality to annex land that is contiguous to their municipality. Some municipalities prepared for include:

- Crestwood
- Elk Grove Village
- Flossmoor
- Franklin Park
- Hawthorn Woods
- Roselle
- Woodridge

Tax Increment Financing (TIF) Districts

The preparation of a written legal description and at times a plat depicting an area of a municipality designated for Tax Increment Financing (TIF) District. Some municipalities prepared for include:

- Forest Park
- Franklin Park
- Glendale Heights
- Highwood
- Melrose Park
- Monee
- Posen
- Richton Park
- River Forest
- Roselle
- Rosemont
- Skokie
- South Chicago Heights
- Shorewood
- Steger

Plat of Vacation

The preparation of a "Plat of Vacation" suitable for a municipality to vacate public streets, alleys or easements. Some municipalities prepared for include:

- Chicago Ridge
- Grayslake
- Hawthorn Woods
- Rosemont

LAND SURVEYING SERVICES

Chicago Water Partners (1999-2017): CBBEL is currently retained by the City of Chicago to provide topographic survey and base drawings production for over 100 miles of water main replacement projects affecting more than 300 City streets. CBBEL is responsible for the completion of base map design plans according to Chicago Department of Water Standards. We also coordinate our MBE and WBE subconsultants for each project to ensure adherence to said standards and timely completion of projects. It is necessary to base all data on IL East State Plane Coordinates NAD'83 to conform to City of Chicago GIS Applications, compute all ROW retracement, review final plans, and submit finished product packages to Chicago Water Partners. This project has also encompassed a generation of base maps for the client's use with the ADA special ramp design and construction projects maintaining CDOT Standards.

EDUCATION

Bachelor of Science, 1987
Civil Engineering
Wentworth Institute of
Technology

PROFESSIONAL REGISTRATION

Professional Land Surveyor, IL,
035003421, 2001
Professional Land Surveyor, IN,
20400062, 2004
Professional Land Surveyor,
MA, 40040, 1997
Professional Land Surveyor, WI,
2548-8, 2000
Professional Engineer, MA,
41050, 1999
Professional Engineer, IL,
062.061506, 2009

PROFESSIONAL AFFILIATIONS

NSPS-ACSM Survey Technician
Certification Program

Illinois Professional Land
Surveyors Association

Indiana Society of Professional
Land Surveyors

Wisconsin Society of Land
Surveyors



I-90, Elgin Tollbooth to US Route 20, Illinois Tollway: Survey Manager for design and roadway reconstruction. The existing roadway will be widened both east and west bound directions. Surveying responsibilities included creation of a signed and sealed "Plat of Highway" for acquisition of ROW and easements along project corridor per Tollway/IDOT Standards. Required document research for the reestablishment of ROW lines, parcel lines and section lines along the project, and coordination of field crews for field survey and recon to obtain existing field evidence of existing boundary lines and ROW; calculation and analysis of data to determine existing boundaries and ROW; and coordination of drafting of the "Plat of Highway" along with the writing of legal descriptions for various easements to be acquired for project. Along with existing conditions survey of the project corridor, including stream surveys and cross sections every 100'.

I-294 Balmoral Off Ramp, Illinois Tollway, Rosemont: Survey Manager for design and roadway construction. The new ramp is a northbound only exit ramp leading into Rosemont. Surveying responsibilities included creation of signed and sealed "Plats of Acquisitions" for acquisition of ROW and easements along project corridor per Cook County DOT Standards. Required document research for the reestablishment of ROW lines, parcel lines and section lines along the project, and coordination of field crews for field survey and recon to obtain existing field evidence of existing boundary lines and ROW; calculation and analysis of data to determine existing boundaries and ROW; and coordination of drafting of the "Plat of Highway" along with the writing of legal descriptions for various easements to be acquired for project. Also the field surveying of an Existing Conditions survey of the project corridor.

MWRD Property (163.0 AC), Palos Hills: Survey Manager for determination of the boundaries of MWRD's parcels 6.01, 7.01 and 8.03, and preparation of written legal descriptions of the overall boundaries to be used for executing legal agreements. Provided a Boundary Survey for 163 acres of land lying adjacent to the Calumet-Sag Channel which involved extensive research at the Cook County Recorder's Office and other public agencies to obtain recorded and unrecorded documents of the subject site. Required coordination of field crews for field survey and recon to obtain existing field evidence on the subject site to aid in the determination of the existing boundaries utilizing GPS and conventional survey methods. Calculations along with analysis of research documents and collected field data to determine the existing boundaries of the subject property for the creation of an overall "Plat of Survey".

TRANSPORTATION

I-80 Resurfacing (Harlem Avenue to I-294), IDOT: Survey Manager overseeing drafting and quantity calculations for 6 miles of I-80. The \$16 million project included surveying tasks completed almost entirely at night. All documentation was prepared in accordance with ARRA requirements, the IDOT Construction Manual and the Project Procedures Guide.

Golf Road, Rolling Meadows: Established horizontal and vertical control for Phase I roadway design. Also established existing ROW for purposes of land acquisitions and the preparation of a plat of highway suitable for submittal to IDOT. Project length of approximately 0.75 miles.

INFRASTRUCTURE

GIS, Rolling Meadows: Project Manager for updating and augmenting the City's existing GIS Base Map address and street databases. City's original data was 5 years old and work entailed the addition of recently added subdivisions and commercial property, along with adding and naming of all private streets. Performed an overall QA/QC of existing data to bring it up to date and match existing databases within Public Works, Police and Fire Departments, and Community Development. Also, for the Public Works Department: established a City-wide base map to be used by all levels of government including design of street and address maps; updating and design of digital storm, sanitary and water utility maps for use in City's GIS; coordination of workstation setup and installation with single license of ArcView and Arc Reader; and for Police and Fire Departments: assisted in the design and creation of the City's 911 response street and address databases.

GIS, Glendale Heights: Project Manager for preparation of GIS Base Maps and Utility Atlases. The Village wanted to set up Village-Wide Base Maps for use in coordination of operations involving underground utilities. Utilized the current Village atlases, although outdated, to expedite the start-up. Created a base map in Phase I comprised of information obtained from DuPage County GIS Department. Performed QA/QC to make the data consistent with the existing Village address and street maps. Also "rubber sheeted" the existing atlas information for all utilities onto the base sheets in data compatible with ESRI's ArcView 9.0 software. In Phase II, created a pilot program for atlases for the water, sanitary and storm infrastructure. Utility atlases for two quarter sections were developed based on field observations with the use of GPS and conventional surveying methods. Standard GPS and handheld GPS methodologies were compared based on cost, accuracy, and Village utility. Both methods still required field crews to collect pipe sizes and inverts. Our field crews surveyed the locations of all storm, sanitary and water structures for two of the quarter sections. Separate atlases were completed for each utility. CBEL assisted the Village in setting up computers for use with the software and GIS database.

GIS, Huntley: Project Manager for preparation of GIS Base Maps and Utility Atlases. The Village is in the process of setting up Village-Wide Base Maps for use in coordination of operations involving underground utilities. Utilized the current Village atlases, although outdated, to expedite the start-up. Created base maps comprised of information obtained from the McHenry and Kane County GIS Department. Performed QA/QC to make the data consistent with the existing Village address and street maps. CBEL created atlases for the water, sanitary and storm infrastructure. Utility atlases are being developed based on field observations with the use of GPS and conventional surveying methods. Our field crews surveyed the locations of all storm, sanitary and water structures for two of the quarter sections. Separate atlases were completed for each utility. CBEL assisted the Village in setting up computers for use with the software and GIS database.



**BREAKDOWN OF ESTIMATED FEE /
STANDARD CHARGES /
GENERAL TERMS & CONDITIONS /**



**Jackson Pond Overflow
Construction Engineering Services**

Engineering Fee Estimate

Task	Description	Classification and Hourly Rate								Total Hours	Fee \$
		Engineer V \$197	Engineer IV \$160	Engineer III \$144	Engineer I/II \$113	Landscape Architect \$160	Survey V \$219	Survey III \$162	Survey II \$118		
1	Preconstruction	5			10					15	\$2,115
2	Shop Drawing Review		10	10	5	15				40	\$6,005
3	Construction Observation/Documentation	20	5		740					765	\$88,360
4	Survey						5	30	30	65	\$9,495
5	Erosion Control Inspection				15					15	\$1,695
6	Traffic Control Inspection				10					10	\$1,130
7	CDBG Documentation	5			80					85	\$10,025
8	Post Construction	5			60			10		75	\$9,385
9	Material Testing										\$14,881
	Direct Costs (Vehicle - 85 Working Days)										\$5,525
TOTAL		35	15	10	920	15	5	40	30	1070	\$148,616

Total Not-to-Exceed Fee = \$148,616

Key Personnel
Kevin Wilson, PE
Rebekkah Carney

Classification
ENG V
ENG I/II

Project Role
Project Manager
Resident Engineer

7.43%

* Cost based upon a Fall 2018 start and a 120 Calendar Days including punch list completion date and may be subject to change based upon extended work by the Contractor.

** Construction Observation Estimated at 45 hrs/week.

CHRISTOPHER B. BURKE ENGINEERING, LTD.
STANDARD CHARGES FOR PROFESSIONAL SERVICES
REVISED, SEPTEMBER 2018

<u>Personnel</u>	Charges* (\$/Hr)
Principal	265
Engineer VI	239
Engineer V	197
Engineer IV	160
Engineer III	144
Engineer I/II	113
Survey V	219
Survey IV	185
Survey III	162
Survey II	118
Survey I	93
Engineering Technician V	187
Engineering Technician IV	152
Engineering Technician III	137
Engineering Technician I/II	80
CAD Manager	166
Assistant CAD Manager	144
CAD II	144
CAD I	111
GIS Specialist III	139
GIS Specialist I/II	80
Landscape Architect	160
Environmental Resource Specialist V	206
Environmental Resource Specialist IV	160
Environmental Resource Specialist III	132
Environmental Resource Specialist I/II	108
Environmental Resource Technician	108
Administrative	101
Engineering Intern	61
Information Technician III	122
Information Technician I/II	110

Direct Costs

Outside Copies, Blueprints, Messenger, Delivery Services, Mileage Cost + 12%

*Charges include overhead and profit

Christopher B. Burke Engineering, Ltd. reserves the right to increase these rates and costs by 5% after December 31, 2018.

CHRISTOPHER B. BURKE ENGINEERING, LTD.
GENERAL TERMS AND CONDITIONS
Village of Villa Park

1. Relationship Between Engineer and Client: Christopher B. Burke Engineering, Ltd. (Engineer) shall serve as Client's professional engineer consultant in those phases of the Project to which this Agreement applies. This relationship is that of a buyer and seller of professional services and as such the Engineer is an independent contractor in the performance of this Agreement and it is understood that the parties have not entered into any joint venture or partnership with the other. The Engineer shall not be considered to be the agent of the Client. Nothing contained in this Agreement shall create a contractual relationship with a cause of action in favor of a third party against either the Client or Engineer.

2. Responsibility of the Engineer: Engineer will strive to perform services under this Agreement in accordance with generally accepted and currently recognized engineering practices and principles, and in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, express or implied, and no warranty or guarantee is included or intended in this Agreement, or in any report, opinion, document, or otherwise.

Engineer is responsible for the acts of its employees as it relates to the professional services provided. Notwithstanding anything to the contrary which may be contained in this Agreement or any other material incorporated herein by reference, or in any Agreement between the Client and any other party concerning the Project, the Engineer shall not have control or be in charge of and shall not be responsible for the means, methods, techniques, sequences or procedures of construction, or the safety, safety precautions or programs of the Client, the construction contractor, other contractors or subcontractors performing any of the work or providing any of the services on the Project. Nor shall the Engineer be responsible for the acts or omissions of the Client, or for the failure of the Client, any architect, engineer, consultant, contractor or subcontractor to carry out their respective responsibilities in accordance with the Project documents, this Agreement or any other agreement concerning the Project. Any provision which purports to amend this provision shall be without effect unless it contains a reference that the content of this condition is expressly amended for the purposes described in such amendment and is signed by the Engineer.

3. Changes: Client reserves the right by written change order or amendment to make changes in requirements, amount of work, or engineering time schedule adjustments, and Engineer and Client shall negotiate appropriate adjustments acceptable to both parties to accommodate any changes, if commercially possible.

4. Suspension of Services: Client may, at any time, by written order to Engineer (Suspension of Services Order) require Engineer to stop all, or any part, of the services required by this Agreement. Upon receipt of such an order, Engineer shall immediately comply with its terms and take all reasonable steps to minimize the costs associated with the services affected by such order. Client, however, shall pay all costs incurred by the suspension, including all costs necessary to maintain continuity and for the resumption of the services upon expiration of the Suspension of Services Order. Engineer will not

be obligated to provide the same personnel employed prior to suspension, when the services are resumed, in the event that the period of suspension is greater than thirty (30) days.

5. Termination: This Agreement may be terminated by either party upon thirty (30) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. This Agreement may be terminated by Client, under the same terms, whenever Client shall determine that termination is in its best interests. Cost of termination, including salaries, overhead and fee, incurred by Engineer either before or after the termination date shall be reimbursed by Client.
6. Documents Delivered to Client: Drawings, specifications, reports, and any other Project Documents prepared by Engineer in connection with any or all of the services furnished hereunder shall be delivered to the Client for the use of the Client. Engineer shall have the right to retain originals of all Project Documents and drawings for its files. Furthermore, it is understood and agreed that the Project Documents such as, but not limited to reports, calculations, drawings, and specifications prepared for the Project, whether in hard copy or machine readable form, are instruments of professional service intended for one-time use in the construction of this Project. These Project Documents are and shall remain the property of the Engineer. The Client may retain copies, including copies stored on magnetic tape or disk, for information and reference in connection with the occupancy and use of the Project.

When and if record drawings are to be provided by the Engineer, Client understands that information used in the preparation of record drawings is provided by others and Engineer is not responsible for accuracy, completeness, nor sufficiency of such information. Client also understands that the level of detail illustrated by record drawings will generally be the same as the level of detail illustrated by the design drawing used for project construction. If additional detail is requested by the Client to be included on the record drawings, then the Client understands and agrees that the Engineer will be due additional compensation for additional services.

It is also understood and agreed that because of the possibility that information and data delivered in machine readable form may be altered, whether inadvertently or otherwise, the Engineer reserves the right to retain the original tapes/disks and to remove from copies provided to the Client all identification reflecting the involvement of the Engineer in their preparation. The Engineer also reserves the right to retain hard copy originals of all Project Documentation delivered to the Client in machine readable form, which originals shall be referred to and shall govern in the event of any inconsistency between the two.

The Client understands that the automated conversion of information and data from the system and format used by the Engineer to an alternate system or format cannot be accomplished without the introduction of inexactitudes, anomalies, and errors. In the event Project Documentation provided to the Client in machine readable form is so converted, the Client agrees to assume all risks associated therewith and, to the fullest extent permitted by law, to hold harmless and indemnify the Engineer from and against

all claims, liabilities, losses, damages, and costs, including but not limited to attorney's fees, arising therefrom or in connection therewith.

The Client recognizes that changes or modifications to the Engineer's instruments of professional service introduced by anyone other than the Engineer may result in adverse consequences which the Engineer can neither predict nor control. Therefore, and in consideration of the Engineer's agreement to deliver its instruments of professional service in machine readable form, the Client agrees, to the fullest extent permitted by law, to hold harmless and indemnify the Engineer from and against all claims, liabilities, losses, damages, and costs, including but not limited to attorney's fees, arising out of or in any way connected with the modification, misinterpretation, misuse, or reuse by others of the machine readable information and data provided by the Engineer under this Agreement. The foregoing indemnification applies, without limitation, to any use of the Project Documentation on other projects, for additions to this Project, or for completion of this Project by others, excepting only such use as may be authorized, in writing, by the Engineer.

7. Reuse of Documents: All Project Documents including but not limited to reports, opinions of probable costs, drawings and specifications furnished by Engineer pursuant to this Agreement are intended for use on the Project only. They cannot be used by Client or others on extensions of the Project or any other project. Any reuse, without specific written verification or adaptation by Engineer, shall be at Client's sole risk, and Client shall indemnify and hold harmless Engineer from all claims, damages, losses, and expenses including attorney's fees arising out of or resulting therefrom.

The Engineer shall have the right to include representations of the design of the Project, including photographs of the exterior and interior, among the Engineer's promotional and professional materials. The Engineer's materials shall not include the Client's confidential and proprietary information if the Client has previously advised the Engineer in writing of the specific information considered by the Client to be confidential and proprietary.

8. Standard of Practice: The Engineer will conduct services under this agreement in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as of the date of this Agreement.
9. Compliance With Laws: The Engineer will exercise usual and customary professional care in his/her efforts to comply with those laws, codes, ordinance and regulations which are in effect as of the date of this Agreement.

With specific respect to prescribed requirements of the Americans with Disabilities Act of 1990 or certified state or local accessibility regulations (ADA), Client understands ADA is a civil rights legislation and that interpretation of ADA is a legal issue and not a design issue and, accordingly, retention of legal counsel (by Client) for purposes of interpretation is advisable.

Further to the law and code compliance, the Client understands that the Engineer will strive to provide designs in accordance with the prevailing Standards of Practice as

previously set forth, but that the Engineer does not warrant that any reviewing agency having jurisdiction will not for its own purposes comment, request changes and/or additions to such designs. In the event such design requests are made by a reviewing agency, but which do not exist in the form of a written regulation, ordinance or other similar document as published by the reviewing agency, then such design changes (at substantial variance from the intended design developed by the Engineer), if effected and incorporated into the project documents by the Engineer, shall be considered as Supplementary Task(s) to the Engineer's Scope of Service and compensated for accordingly.

10. Indemnification: Engineer shall indemnify and hold harmless Client from loss or expense, including reasonable attorney's fees for claims for personal injury (including death) or property damage to the extent caused by the sole negligent act, error or omission of Engineer.

Client shall indemnify and hold harmless Engineer under this Agreement, from loss or expense, including reasonable attorney's fees, for claims for personal injuries (including death) or property damage arising out of the sole negligent act, error omission of Client.

In the event of joint or concurrent negligence of Engineer and Client, each shall bear that portion of the loss or expense that its share of the joint or concurrent negligence bears to the total negligence (including that of third parties), which caused the personal injury or property damage.

11. Opinions of Probable Cost: Since Engineer has no control over the cost of labor, materials or equipment, or over the Contractor(s) method of determining process, or over competitive bidding or market conditions, his/her opinions of probable Project Construction Cost provided for herein are to be made on the basis of his/her experience and qualifications and represent his/her judgement as a design professional familiar with the construction industry, but Engineer cannot and does not guarantee that proposal, bids or the Construction Cost will not vary from opinions of probable construction cost prepared by him/her. If prior to the Bidding or Negotiating Phase, Client wishes greater accuracy as to the Construction Cost, the Client shall employ an independent cost estimator Consultant for the purpose of obtaining a second construction cost opinion independent from Engineer.
12. Governing Law & Dispute Resolutions: This Agreement shall be governed by and construed in accordance with Articles previously set forth by (Item 9 of) this Agreement, together with the laws of the **State of Illinois**.
13. Successors and Assigns: The terms of this Agreement shall be binding upon and inure to the benefit of the parties and their respective successors and assigns: provided, however, that neither party shall assign this Agreement in whole or in part without the prior written approval of the other.

14. Waiver of Contract Breach: The waiver of one party of any breach of this Agreement or the failure of one party to enforce at any time, or for any period of time, any of the provisions hereof, shall be limited to the particular instance, shall not operate or be deemed to waive any future breaches of this Agreement and shall not be construed to be a waiver of any provision, except for the particular instance.
15. Entire Understanding of Agreement: This Agreement represents and incorporates the entire understanding of the parties hereto, and each party acknowledges that there are no warranties, representations, covenants or understandings of any kind, matter or description whatsoever, made by either party to the other except as expressly set forth herein. Client and the Engineer hereby agree that any purchase orders, invoices, confirmations, acknowledgments or other similar documents executed or delivered with respect to the subject matter hereof that conflict with the terms of the Agreement shall be null, void and without effect to the extent they conflict with the terms of this Agreement.
16. Amendment: This Agreement shall not be subject to amendment unless another instrument is duly executed by duly authorized representatives of each of the parties and entitled "Amendment of Agreement".
17. Severability of Invalid Provisions: If any provision of the Agreement shall be held to contravene or to be invalid under the laws of any particular state, county or jurisdiction where used, such contravention shall not invalidate the entire Agreement, but it shall be construed as if not containing the particular provisions held to be invalid in the particular state, country or jurisdiction and the rights or obligations of the parties hereto shall be construed and enforced accordingly.
18. Force Majeure: Neither Client nor Engineer shall be liable for any fault or delay caused by any contingency beyond their control including but not limited to acts of God, wars, strikes, walkouts, fires, natural calamities, or demands or requirements of governmental agencies.
19. Subcontracts: Engineer may subcontract portions of the work, but each subcontractor must be approved by Client in writing.
20. Access and Permits: Client shall arrange for Engineer to enter upon public and private property and obtain all necessary approvals and permits required from all governmental authorities having jurisdiction over the Project. Client shall pay costs (including Engineer's employee salaries, overhead and fee) incident to any effort by Engineer toward assisting Client in such access, permits or approvals, if Engineer perform such services.
21. Designation of Authorized Representative: Each party (to this Agreement) shall designate one or more persons to act with authority in its behalf in respect to appropriate aspects of the Project. The persons designated shall review and respond promptly to all communications received from the other party.
22. Notices: Any notice or designation required to be given to either party hereto shall be in writing, and unless receipt of such notice is expressly required by the terms hereof shall

be deemed to be effectively served when deposited in the mail with sufficient first class postage affixed, and addressed to the party to whom such notice is directed at such party's place of business or such other address as either party shall hereafter furnish to the other party by written notice as herein provided.

23.

24. Client's Responsibilities: The Client agrees to provide full information regarding requirements for and about the Project, including a program which shall set forth the Client's objectives, schedule, constraints, criteria, special equipment, systems and site requirements.

The Client agrees to furnish and pay for all legal, accounting and insurance counseling services as may be necessary at any time for the Project, including auditing services which the Client may require to verify the Contractor's Application for Payment or to ascertain how or for what purpose the Contractor has used the money paid by or on behalf of the Client.

When Contract Documents prepared under the Scope of Services of this contract require insurance(s) to be provided, obtained and/or otherwise maintained by the Contractor, the Client agrees to be wholly responsible for setting forth any and all such insurance requirements. Furthermore, any document provided for Client review by the Engineer under this Contract related to such insurance(s) shall be considered as sample insurance requirements and not the recommendation of the Engineer. Client agrees to have their own risk management department review any and all insurance requirements for adequacy and to determine specific types of insurance(s) required for the project. Client further agrees that decisions concerning types and amounts of insurance are specific to the project and shall be the product of the Client. As such, any and all insurance requirements made part of Contract Documents prepared by the Engineer are not to be considered the Engineer's recommendation, and the Client shall make the final decision regarding insurance requirements.

25. Information Provided by Others: The Engineer shall indicate to the Client the information needed for rendering of the services of this Agreement. The Client shall provide to the Engineer such information as is available to the Client and the Client's consultants and contractors, and the Engineer shall be entitled to rely upon the accuracy and completeness thereof. The Client recognizes that it is impossible for the Engineer to assure the accuracy, completeness and sufficiency of such information, either because it is impossible to verify, or because of errors or omissions which may have occurred in assembling the information the Client is providing. Accordingly, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Engineer and the Engineer's subconsultants harmless from any claim, liability or cost (including reasonable attorneys' fees and cost of defense) for injury or loss arising or allegedly arising from errors, omissions or inaccuracies in documents or other information provided by the Client to the Engineer.

26. Payment: Client shall be invoiced once each month for work performed during the preceding period. Client agrees to pay each invoice within thirty (30) days of its receipt. The client further agrees to pay interest on all amounts invoiced and not paid or objected to for valid cause within said thirty (30) day period at the rate of eighteen (18) percent per annum (or the maximum interest rate permitted under applicable law, whichever is the lesser) until paid. Client further agrees to pay Engineer's cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees, as well as costs attributed to suspension of services accordingly and as follows:

Collection Costs. In the event legal action is necessary to enforce the payment provisions of this Agreement, the Engineer shall be entitled to collect from the Client any judgement or settlement sums due, reasonable attorneys' fees, court costs and expenses incurred by the Engineer in connection therewith and, in addition, the reasonable value of the Engineer's time and expenses spent in connection with such collection action, computed at the Engineer's prevailing fee schedule and expense policies.

Suspension of Services. If the Client fails to make payments when due or otherwise is in breach of this Agreement, the Engineer may suspend performance of services upon five (5) calendar days' notice to the Client. The Engineer shall have no liability whatsoever to the Client for any costs or damages as a result of such suspension caused by any breach of this Agreement by the Client. Client will reimburse Engineer for all associated costs as previously set forth in (Item 4 of) this Agreement.

27. When construction observation tasks are part of the service to be performed by the Engineer under this Agreement, the Client will include the following clause in the construction contract documents and Client agrees not to modify or delete it:

Kotecki Waiver. Contractor (and any subcontractor into whose subcontract this clause is incorporated) agrees to assume the entire liability for all personal injury claims suffered by its own employees, including without limitation claims under the **Illinois** Structural Work Act, asserted by persons allegedly injured on the Project; waives any limitation of liability defense based upon the Worker's Compensation Act, court interpretations of said Act or otherwise; and to the fullest extent permitted by law, agrees to indemnify and hold harmless and defend Owner and Engineer and their agents, employees and consultants (the "Indemnitees") from and against all such loss, expense, damage or injury, including reasonable attorneys' fees, that the Indemnitees may sustain as a result of such claims, except to the extent that **Illinois** law prohibits indemnity for the Indemnitees' own negligence. The Owner and Engineer are designated and recognized as explicit third party beneficiaries of the Kotecki Waiver within the general contract and all subcontracts entered into in furtherance of the general contract.

28. Job Site Safety/Supervision & Construction Observation: The Engineer shall neither have control over or charge of, nor be responsible for, the construction means, methods, techniques, sequences of procedures, or for safety precautions and programs in

connection with the Work since they are solely the Contractor's rights and responsibilities. The Client agrees that the Contractor shall supervise and direct the work efficiently with his/her best skill and attention; and that the Contractor shall be solely responsible for the means, methods, techniques, sequences and procedures of construction and safety at the job site. The Client agrees and warrants that this intent shall be carried out in the Client's contract with the Contractor. The Client further agrees that the Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work; and that the Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to all employees on the subject site and all other persons who may be affected thereby. The Engineer shall have no authority to stop the work of the Contractor or the work of any subcontractor on the project.

When construction observation services are included in the Scope of Services, the Engineer shall visit the site at intervals appropriate to the stage of the Contractor's operation, or as otherwise agreed to by the Client and the Engineer to: 1) become generally familiar with and to keep the Client informed about the progress and quality of the Work; 2) to strive to bring to the Client's attention defects and deficiencies in the Work and; 3) to determine in general if the Work is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Engineer shall not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. If the Client desires more extensive project observation, the Client shall request that such services be provided by the Engineer as Additional and Supplemental Construction Observation Services in accordance with the terms of this Agreement.

The Engineer shall not be responsible for any acts or omissions of the Contractor, subcontractor, any entity performing any portions of the Work, or any agents or employees of any of them. The Engineer does not guarantee the performance of the Contractor and shall not be responsible for the Contractor's failure to perform its Work in accordance with the Contract Documents or any applicable laws, codes, rules or regulations.

When municipal review services are included in the Scope of Services, the Engineer (acting on behalf of the municipality), when acting in good faith in the discharge of its duties, shall not thereby render itself liable personally and is, to the maximum extent permitted by law, relieved from all liability for any damage that may accrue to persons or property by reason of any act or omission in the discharge of its duties. Any suit brought against the Engineer which involve the acts or omissions performed by it in the enforcement of any provisions of the Client's rules, regulation and/or ordinance shall be defended by the Client until final termination of the proceedings. The Engineer shall be entitled to all defenses and municipal immunities that are, or would be, available to the Client.

29.

30. Hazardous Materials/Pollutants: Unless otherwise provided by this Agreement, the Engineer and Engineer's consultants shall have no responsibility for the discovery,

presence, handling, removal or disposal of or exposure of persons to hazardous materials/pollutants in any form at the Project site, including but not limited to mold/mildew, asbestos, asbestos products, polychlorinated biphenyl (PCB) or other toxic/hazardous/pollutant type substances.

Furthermore, Client understands that the presence of mold/mildew and the like are results of prolonged or repeated exposure to moisture and the lack of corrective action. Client also understands that corrective action is a operation, maintenance and repair activity for which the Engineer is not responsible.

June 13, 2005

Revised December 12, 2013

Revised December 20, 2013

Revised July 20, 2016

P:\Proposals\Terms and Conditions\Villa Park GT&C 2005.072016.doc