

Proposal

RFP #21-015 Tinley Creek Streambank Stabilization



ORLAND
PARK

Village of Orland Park

March 29, 2021

CONSULTING
ENGINEERS



BLA, Inc.



March 29, 2021

John Mehalek – Village Clerk
Village of Orland Park
Office of the Village Clerk
14700 S. Ravinia Avenue, 2nd Floor
Orland Park, Illinois 60462

Re: Proposal for RFP #21-015 Tinley Creek Streambank Stabilization

Mr. Mehalek:

BLA appreciates the opportunity to submit our proposal and qualifications to provide engineering services for the Village's Tinley Creek Streambank Stabilization project. BLA has the considerable experience and expertise necessary to service the Village since we have worked on similar projects and have the local staff available.

Our proposed team has a wealth of knowledge with stream restoration, led by our proposed **Project Manager Jeff Guerrero, P.E.** who brings more than a decade's worth of stream stabilization experience to the Village. Jeff understands garnering public support is essential for this type of project as the improvements are located directly in backyards of homes.

BLA acknowledges receipt of Addenda 1, 2 and 3.

Our firm would perform this work out of our Itasca office. Our mailing address and contact information is presented below:

Corporate Office
333 Pierce Road, Suite 200
Itasca, Illinois 60143
Phone: 630-438-6400

Daniel B. Bruckelmeyer, P.E.
President & Chief Executive Officer
dbruckelmeyer@bla-inc.com
630-438-6400

We sincerely appreciate the opportunity to submit our Proposal to the Village and look forward to answering any questions you may have to further clarify our submittal.

Sincerely,
BLA, Inc.

A handwritten signature in black ink, appearing to read 'Daniel B. Bruckelmeyer', with a long horizontal line extending to the right.

Daniel B. Bruckelmeyer, P.E.
President & Chief Executive Officer

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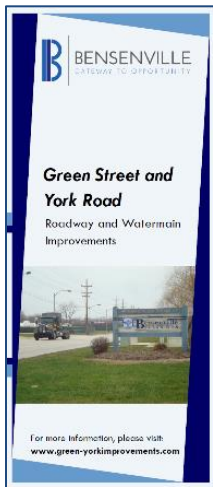
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Project Approach

BLA is excited about the opportunity to work with the Village of Orland Park to stabilize portions of Tinley Creek. We believe we can provide technical knowhow and prior similar experience that is unmatched by our competitors. **Jeff Guerrero, P.E.** will manage our design team; he brings more than 10 years of focused stream restoration and bank stabilization experience. Jeff has 13 years of experience providing stormwater management and design services to municipal and private clients. His experience includes design, modeling and permitting of in-stream and streambank protection as well as construction oversight during installation of these features. This combined field and design experience has allowed Jeff to see soft and armored protection approaches in action which helps tailor the design to specific site conditions.



Additional key staff includes *Kevin Kenniff, P.E., CFM*, who will provide overall project quality assurance and technical guidance; *Ed Lebbos, CFM, CWS, DECI*, responsible for wetland delineation and related permitting; and *Joel Ihde, P.E., S.E.*, who will provide any necessary structural engineering design for sheetpiling or retaining walls.



One of the things that sets BLA apart from others is our attention to *public communication*. We believe upfront, open communication builds the trust of local businesses and stakeholders on a project. We have found that letting people know what to expect and providing honest answers to their concerns goes a long way towards building a successful project with fewer complaints. The Village's plan to provide property-specific exhibits as part of this project will certainly smooth the path forward.

If the Village desires, BLA can take this a step further in a project brochure that would include a general overview of the project, anticipated schedule and completion date. The brochure could also include an overview of the construction access approach to assure property owners and HOAs the project will aim to limit disturbance and restore impacted areas. Most importantly, it would include our contact information so any concerns could be addressed by our staff. *Ashley Newton*, our dedicated Public Information Representative, would develop the brochure for the Village's approval. Jeff would *personally* hand deliver a brochure and speak with each property owner directly affected.

Key Elements

Updated Design Basis

Because the Baker plan was developed in 2014, it is likely based on outdated rainfall data. It will be necessary to update rainfall data to the most current, Bulletin 75, and use the revised runoff as a design basis. This update will be necessary for both permitting and design purposes.

Our recent experience permitting through FEMA and IDNR-OWR has shown they are requiring use of updated rainfall in submitted models and calculations. Therefore, the Tinley Creek HEC-RAS model will be updated based on the revised hydrology calculations. This will likely result in an increase to base flood elevations for existing conditions; however, much of the design includes increased cross-sectional area or widened channels, which should help offset the base flood elevations under proposed conditions. The existing culverts and bridges throughout the reach will also be verified for adequate hydraulic capacity during the updated design event flows.

The more frequent storm events such as 1-year and 2-year will be compared against the grading and any cross vane and J-hook feature elevations previously set in the Baker plan. If necessary, these features will be revised to ensure they behave as desired and are not flanked during the design storm. Design features for the portion of Tinley Creek that is being considered for the first time under this project will similarly be designed to withstand the more frequent events.

Public Outreach

BLA understands the previous project did not have the necessary public support to move forward with construction. It will be important to continue the Village's outreach efforts early in the project by allowing impacted property owners and HOAs to voice concerns and provide feedback that can be incorporated into the design approach.

As Project Manager and Lead Design Engineer, Jeff Guerrero, P.E. and Public Information Representative, Ashley Newton, will initiate conversations with each affected property owner. The goal would be to combine initial one-on-one discussions with onsite data collection efforts – meet face-to-face, look at each property owner's streambank and review construction access constraints. We have seen this collaborative approach help pave the way for positive communication throughout a project. Ashley will keep a detailed log of every conversation held along with any necessary follow-up and ensure each resident's concerns are heard and presented to the Village.

A public meeting will be scheduled to share/discuss the proposed improvements. It is recommended this meeting occurs at the 30% design stage to ensure any necessary shifts in design can be incorporated. This will be followed up with individual discussions with impacted property owners/HOAs. These discussions will occur at the 60% design stage and include property-specific exhibits identifying anticipated temporary and/or permanent easements.

Stream Feature Design

BLA will provide an initial in-depth review of the prior Baker plan and any design basis documentation to understand how various features were designed. Assumptions and calculations will be updated as necessary based on the revised stream flows discussed above. The plan will also be reviewed to ensure there are appropriate protective measures at three general levels of stream function: *low-elevation flows*, *bankfull flow* and *flood flows*.

The lower elevation flows as well as bankfull flows will impact the bank toe – which is the foundation of the upper bank protective measures. Shear stress calculations will inform required toe protection locations and whether a rocked or softer approach is warranted. Bankfull flows will be identified by field investigations and comparison with gage data on Tinley Creek. The existing gage is further down in the watershed, but adjustments to contributing area and land use can be accounted for in correlating downstream gage data to this upstream site. The nearly 70 years of daily streamflow and peak annual flow data will be analyzed to understand current bankfull flows and anticipated bankfull elevations under proposed conditions. This data point will be necessary for setting appropriate elevations of cross vanes, J-hooks and similar features that aim to focus the channel-forming flow in the desired direction while establishing a stable grade control. Finally, grading near the top of bank as well as any sheetpiling or retaining walls will need to be set to appropriate protective elevations determined by new flow data.

Consideration of sediment transport will also be important in channel design and placement of stream features. Using the previously mentioned stream gage record data combined with field-collected sediment grain size information, BLA will confirm the proposed widened cross sections will not cause too much aggradation that may lead to channel braiding. Intentional scour pools can be created with designed J-hooks and vane structures to help promote sufficient sediment movement through the channel.

Utility Conflicts

As with most construction projects, utilities play a major role in the progress of work. Ultimately, it is not a question of if there will be conflicts, it is how you manage the conflicts that will determine the fate of the project's success. At BLA, we take pride in being the best in the industry at utility coordination. In many cases, we establish and prioritize which utility conflicts are most critical so crews can focus their equipment and manpower to complete these conflict locations first to minimize potential construction delays. This project will require coordination with homeowners for common backyard items such as retaining walls, walkways down to the water and sheds.



Storm sewer outfalls and fiberoptic cable are also expected and will be identified prior to bidding. BLA will document the locations and elevations vertically and horizontally on the plans to ensure these conflicts are in plain sight at bidding.

Non-Special Waste

Management of non-special waste is a priority for many construction projects generating any amount of soil. BLA and Huff & Huff, Inc. are very familiar with the IEPA requirements regarding handling, storage and disposal of contaminated soil. We have worked with owners and contractors on several projects to come up with soil management plans that reduce the amount of material being hauled off. During this design phase, our team plans to conduct a PESA to identify any potentially contaminated soils to establish contact quantities for removal and disposal. Disposal of contaminated soils are frequently a source of budget overruns; conducting a PESA to identify where these areas may *potentially* be, will be a value added to the project and establish a realistic construction budget estimate.



Scope of Services

Task 1 – Meetings

- Under this task, BLA will lead the project kickoff and coordination meetings with MWRDGC and property owners. We recommend an early coordination meeting with MWRDGC and the Village to understand all requirements and design guidelines that need to be followed for the prior work and new portion of Tinley Creek.
- BLA will coordinate monthly to bi-monthly meetings with the Village, depending on the current project phase.
- BLA will lead on-site meetings with impacted homeowners/HOAs, as requested by the Village, at the 60% stage, during which easement requirements and project features will be discussed. Property-specific exhibits will be created for each impacted property. An allowance for five on-site meetings has been included.
- BLA will present design at one public meeting to be hosted by the Village.
- BLA will initiate discussions with USACOE, IDNR, MWRDGC and other necessary agencies and attend a preapplication meeting as needed prior to updating and/or creating permit applications.
- If requested, BLA will present the project to the Village Board of Trustees.

Task 2 – Data Collection

- BLA will perform a detailed review of the previously completed design documents prepared by Baker. We will identify features that may not be directly addressing or minimizing erosion and seek to reduce the construction scope to that which is necessary for project success.
- BLA will coordinate survey efforts with Marchese & Sons, Inc. to update existing topography and collect new data. Because of the continued erosion since the last survey, it is expected new topography will be necessary.
- BLA will coordinate PESA desktop investigation with Huff & Huff to ensure potential waste considerations are factored into construction and cost estimates.
- BLA will walk the entire Tinley Creek corridor document existing conditions, including photo-documentation. Identified wetlands, trees to remain, utilities, private property features and other pertinent items will be documented and flagged as necessary for the surveyor.
- Stream design data such as grain size estimation, channel planform and section dimensions, areas of toe scour and sloughing banks and apparently stable areas will be identified and used through the design process.

Task 3 – Design Development

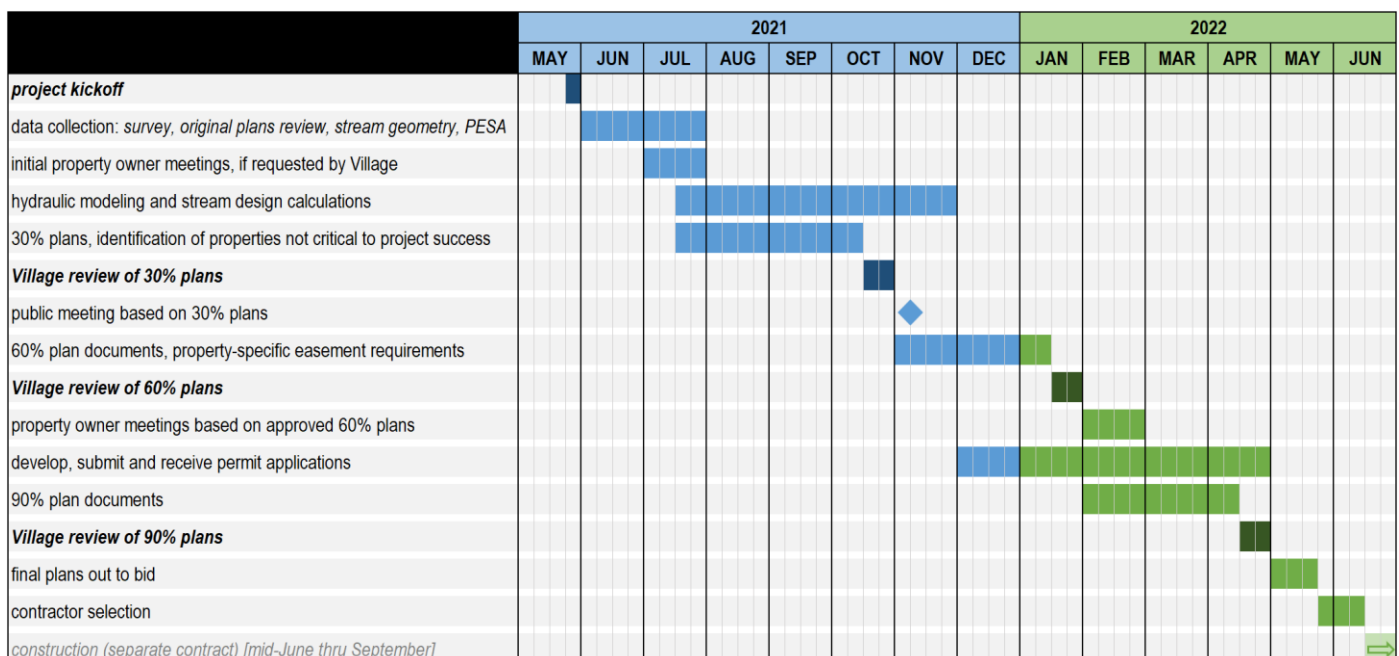
- BLA will update the existing hydrologic and hydraulic model for Tinley Creek, within the project limits, and use this as a basis for comparing proposed conditions water surface elevations as well as design for specific stream elements.
- Channel stability calculations will be performed to verify and/or edit the prior plan and inform design for the new portion of the Creek.

- Sizing, spacing and layout of J-hooks, cross vanes, toe protection and other features will be confirmed and/or established.
- BLA will develop and submit 30%, 60% and 90% design documents to the Village and MWRDGC for review.
 - *BLA will identify properties that are not critical to project success at the 30% submittal.*
 - *Estimated construction costs will be developed as part of the 60% and 90% design documents. Costs will be broken out between MWRDC scope elements and elements solely the Village's responsibility. If the cost estimate exceeds the \$6 million budget, we will work with the Village and MWRDGC to incorporate Value Engineering approaches to remain within budget.*
 - *The 60% design documents will form the basis for property-specific exhibits and discussions. Temporary and permanent easement limits will be provided with the 60% design documents for Village review.*
 - *As part of the 60% design, BLA will update, prepare and submit necessary permit applications to USACOE, IDNR and County as applicable.*
 - *As part of the 90% design documents, BLA will develop an estimate of annual O&M costs for ongoing upkeep after construction. This will be based on a 20-year O&M period.*
 - *Technical specifications will be included with 60% design documents and refined at the 90% design document stage.*

Task 4 – Construction Bidding Support

- BLA will develop a construction schedule to aid the Village in preparing for project implementation.
- BLA will use the approved final plans, specifications and quantities to develop a complete PS&E document for the Village's use to solicit bids from qualified contractors.
- BLA will provide guidance and information as the Village develops criteria for construction contractor qualifications and ultimate selection.
- BLA will develop a proposed scope of services for the Village's use for construction engineering and/or construction observation services during project implementation. BLA understands the Village may use this scope to solicit qualified consultants for this future work.
- BLA will assist the Village in reviewing bids from contractors.

Schedule



Experience

Buckbee Creek and Rock River Outfall Restoration

City of Rockford

Client Reference: Tim Hinkens..... 779-348-7176; timothy.hinkens@rockfordil.gov

Rockford selected BLA to prepare design alternatives to address the bank erosion and scour at the Buckbee Creek Rock River Outfall. The concrete channel had eroded and undermined leaving a large scour hole and creating bank erosion at the Rock River Water Reclamation District treatment plant. The area was highly eroded and had numerous slope failures. The creek and project area were in mapped floodplain. BLA performed hydraulic modeling and developed multiple alternatives to stabilize the channel bottom, reconstruct the streambanks and protect the channel from future scour/erosion. Preliminary and final engineering included design of sheet piling to prevent future undermining of the concrete channel; design and selection of erosion control protection including hard armor revetment mats; hydraulic modeling of the channel to determine flood flows and velocities; development of multiple alternatives with estimates of probable cost; coordination with City staff; and ultimate selection of a preferred alternative. A combination of rock-filled mats, riprap and sheet piling was used to stabilize the granular soils of the outfall. BLA prepared construction drawings for the implementation of the preferred alternative and quantities, cost estimates and bid assistance.



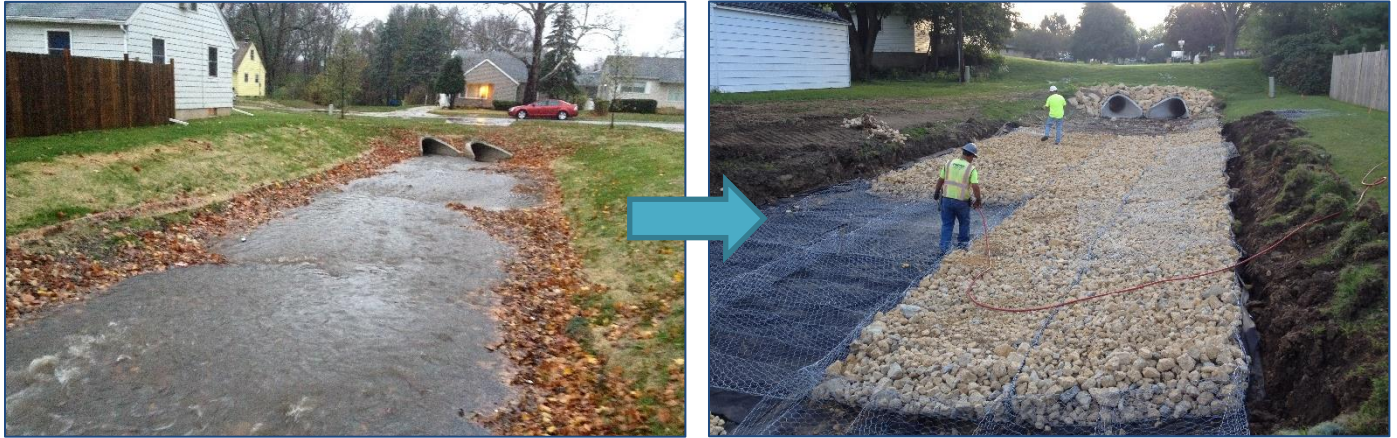
BLA also provided construction engineering services. During the work, a heavy rain event eroded much of the already completed side slopes at the Rock River Outfall and a portion of the existing concrete spillway broke away. Side slopes needed to be regraded while the concrete spillway limits were revised because of the storm damage.

Harmon Park

City of Rockford

Client Reference: Tim Hinkens..... 779-348-7176; timothy.hinkens@rockfordil.gov

Design of energy dissipation and erosion control measures at the upstream tributary headwaters of Buckbee Creek which experience frequent erosion through a residential area within Harmon Park were included in the improvement plans at the request of the City of Rockford. Preliminary and final engineering included design and selection of erosion control protection including hard armor revetment mats; hydraulic modeling of the channel to determine flood flows and velocities; development of multiple alternatives with estimates of probable cost; coordination with City staff; and ultimate selection of a preferred alternative. A combination of rock-filled mats and riprap and sheet piling were used to stabilize the granular soils of the outfall. BLA prepared construction drawings for the implementation of the preferred alternative and quantities, cost estimates and bid assistance.



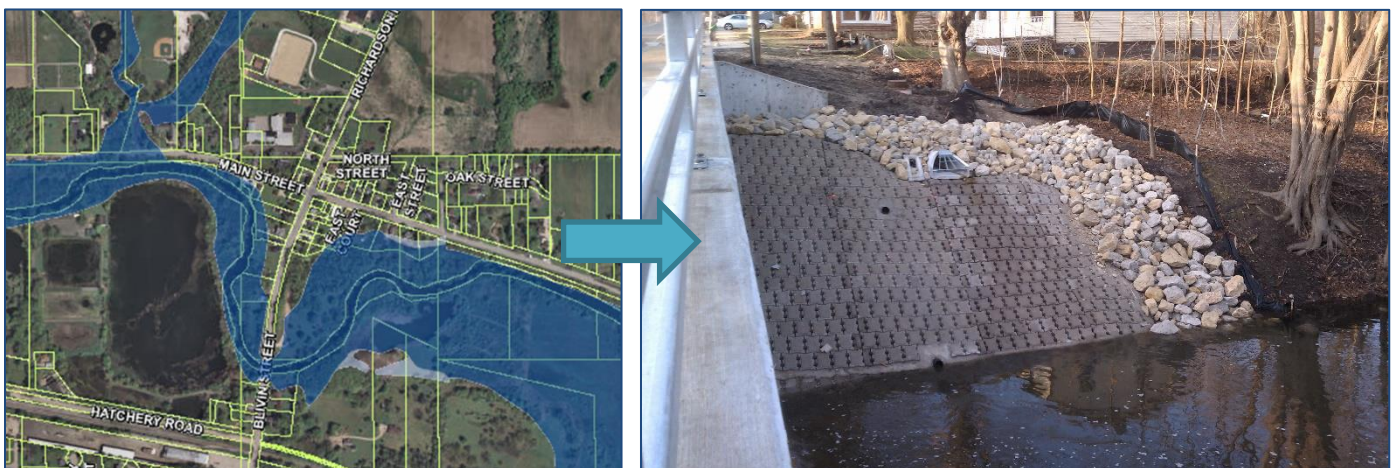
Blivin Street Bridge and Nippersink Creek Restoration

McHenry County DOT

Client Reference: Joe Korpalski..... 815-334-4964; jrkorpalski@mchenrycountyil.gov

BLA prepared a Phase I Project Development Report and Phase II construction documents for the removal/replacement of the bridge carrying Blivin Street over Nippersink Creek as funded by STP-Bridge. The project included structural and hydraulic analysis of the bridge in its existing condition along with the improvement to reduce the encountered scouring effect of the oxbow bend of Nippersink Creek at the bridge location. A TS&L and geotechnical investigation were included in BLA’s scope of work. The bridge itself serves as a rural-to-urban roadway transitional area and details for tying the proposed roadway into existing were developed. Complicating the project was a residential driveway within the bridge approach area and proximity of a park entrance to the bridge. Both issues severely limited profile options, but BLA worked within these limitations to produce a design that was economically feasible.

During the Phase I study, structural cracking was observed and the bridge was closed for safety concerns. This resulted in the need to expedite the project design and construction schedule, moving up the letting date by four months. Early coordination with the USACOE was essential; representatives from MCDOT and BLA met early to establish a timeframe for obtaining a Joint Application permit. High channel velocities resulted in the design of articulated block revetment mat to stabilize the streambank along with a temporary cofferdam system and turbidity curtain as well as a comprehensive dewatering plan to meet the requirements of the USACOE and McHenry County Soil & Water Conservation District. State-Threatened Black Sandshell Mussels were found in the area which required a conservation plan and incidental take authorization agreement. Additional coordination took place with the Village of Spring Grove and the McHenry County Conservation District to reestablish a canoe launch adjacent to the bridge. The Phase I and Phase II designs were approved with the same month and all utility relocation agreements, land acquisition and permitting requirements were met in a very short timeframe. BLA facilitated all environmental coordination, hydraulic analysis and plan and specification production for the entire project.



Brush Hill Dam Restoration

Forest Preserve District of DuPage County

Client Reference: Ed Stevenson..... 630-933-7200; estevenson@dupageforest.org

BLA prepared a Dam Inspection Report in accordance with the requirements of the Forest Preserve District of DuPage County and the IDNR-OWR. The Design Report that accompanied the Dam Inspection Report addressed the issues relating to the rehabilitation and total replacement of the dam. Preliminary investigations of the upstream face of the earth embankment demonstrated failed slope stability and erosion from wave action. Rehabilitation design included routing a walking path up to the dam and over the spillway structure, bioengineering, erosion control and dewatering/cofferdam recommendations.



Dead Dog Creek Restoration

Lake County Stormwater Management Commission

Client Reference: Kurt Woolford..... 847-377-7720; kwoolford@lakecountyl.gov

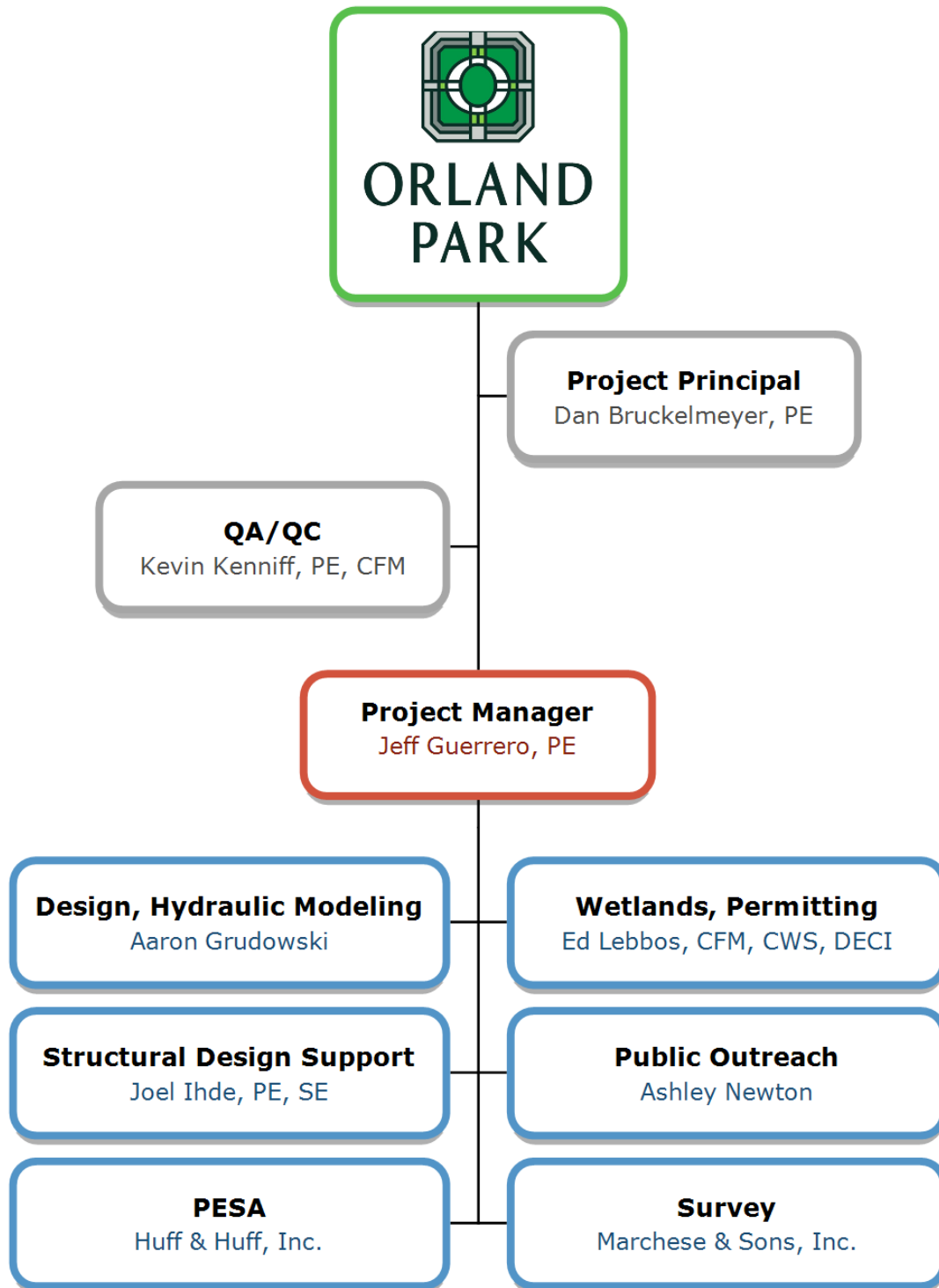
BLA provided preliminary design services for the Dead Dog Creek stream restoration project; this project was part of the Great Lakes Water Initiative. The property is owned by the Village of Winthrop Harbor Park District in conjunction with LCSMC. LCSMC and BLA developed a streambank stabilization project because of the extreme erosion along the meandering creek – including some extreme erosion near homes along the creek. This erosion caused a considerable amount of sediment to occur at the downstream end of the creek. Improvements included armament, the introduction of riffles and permanent rock check dams. Work included a stream cross section survey, hydraulic modeling, alternative development and identification of several countermeasures for the meandering stream.



Work included a stream cross section survey, hydraulic modeling, alternative development and identification of several countermeasures for the meandering stream.

Team/Qualifications

All staff in the Organization Chart is available to serve the Village of Orland Park. The personnel shown will be assigned to the project based on the requirements and need for their engineering expertise.



JEFF M. GUERRERO, P.E.

Project Manager

Education

Calvin College – B.S. Civil and Environmental Engineering, 2008

Professional Registration

Professional Engineer

State of Illinois: 062-066786, 2014

State of Indiana: PE11800285, 2018

State of Michigan: 6201059685, 2012

Professional Societies

IRTBA Erosion Control Committee, 2019

ISPE Outreach Committee, Under 35, 2016

Specialized Software

AutoCAD Civil 3D

ESRI ArcGIS

HEC-HMS

HEC-RAS

HELP Model

HydroCAD

XP-SWMMM

WaterCAD

Experience Summary

With 13 years' experience in stormwater engineering, Jeff has focused the last 10 years on stream restoration and bank stabilization design and construction projects. Work includes design, management and construction oversight for hard and soft bank protection, dam removals, fish passage and bluff stabilization along large rivers, small streams and Great Lake shorelines.

Professional Experience

Project Manager for Bull Creek Restoration; Lake County SMC, Beach Park – Managed design and permitting for 1,900 feet of Bull Creek through a residential neighborhood immediately upstream of the protected Illinois Beach State Park. Design included toe stone and coir log protection, engineered rock riffle design and placement and native vegetation bank plantings. Project work included establishment of conservation easement through residential property, hydraulic modeling and floodplain permitting through this actively eroding channel and ensuring residents have continued access out of cul-de-sac throughout construction.

Project Manager for Ravine Stabilization and Restoration; City of Lake Forest – Managed design to stabilize slopes and restore the flow channel for 1,800 feet of ravine at the Lake Forest Cemetery. The ravine is split by a 35-foot-deep culvert under a cemetery road, effectively creating two unique ravine systems. The upper 500 feet was characterized by 2-8% slopes along a natural channel experiencing headcuts and incision while the lower 1,300 feet had a historic concrete flow channel undermined such that flow was typically not visible. The stabilization approach for the upstream ravine was to install a low flow storm sewer near the existing channel thalweg and fill the incised channel to restore historic access to floodplain during higher flows. The lower ravine stabilization included breaking up the remnant concrete flow channel and amending with additional rock to reduce energy before discharging at Lake Michigan's shoreline. The design of both ravines included restorative measures along the side slopes such as invasive species management and tree thinning to promote growth of lower vegetation with root structures to limit bank erosion.

Project Engineer for Elk Creek Stream Stabilization – For western Pennsylvania Conservancy owned land, this design included 500+ feet of bank stabilization along an extreme outside bend of a prized trout fishing stream just upstream of Lake Erie. The chosen method of stabilization was a stacked and pinned cut rock wall. Detailed hydrology and hydraulic models were developed to set rock elevations at 5- and 10-year flow elevations. The design included 20-foot long bendway weirs made from single-stone-high cut rock pinned to the bedrock channel bottom. The bendway weirs were designed to maintain a channel thalweg near the center of the stream and provide fishing access. Considerable groundwater flow from the outer bank made for a unique challenge that was handled with perforated pipe running behind the rock wall.

Project Manager for North Branch Clinton River Realignment; DTE Energy, MI – Managed complete design and construction for realignment of the river channel that had undermined an active 36-inch diameter high pressure natural gas transmission pipeline and was encroaching on an existing electric transmission line tower. This stretch of river was an S-bend with the downstream end bounded by a low head dam that regularly caught large trees and created log jams that would exacerbate the encroachment on existing infrastructure. A comprehensive field data collection period kicked off the project and included pebble counts, mussel and threatened/endangered species surveys, flow monitoring and a vegetation survey to understand existing invasive species and upland trees. The design aimed to maintain a high-quality natural channel that focused on ecological uplift as mitigation for a necessary reduction in stream length. Armored and natural structures were also designed along the S-bend to

ensure long-term stability of the reach. Structures included stream barbs, a J-hook, a crossvane at the location of the dam that was removed and rootwads to promote sedimentation within a braided portion of the channel. A remnant of the original channel was regraded to create an oxbow pond that receives water during higher flows. Hydraulic modeling and permitting through Michigan Department of Environmental Quality, including a LOMR were significant portions of this project that ultimately allowed DTE to avoid shutting down or re-boring the natural gas transmission pipe.

Project Manager and Engineer for Multiple New York State Parks, Recreation and Historic Preservation Projects – Design of protective rock reef and habitat enhancement structures within Niagara River and along the shoreline. Calculations included determination of wave heights, overtopping, transmission through structures and scour. Hydraulic modeling of near-island flows was used to develop velocity and scour estimates. At a separate park along Lake Ontario’s shoreline, work included design of a 600-foot revetment to protect an existing campground on a 20-foot-high bluff. The revetment was designed to tie into an existing one built in the 1970s. Wave runup calculations were developed based on offshore buoy data. Project funding allowed for a preapplication meeting and draft permit documents alongside prefinal construction plans. Final permitting and plans would be completed with construction funds.

Project Engineer for Turkey Creek and Brickyard Bayou Bioengineering Techniques; Coastal Mississippi – Responsible for assisting The Nature Conservancy (TNC) by developing scalable bioengineering techniques for treating streambank erosion along two streams in the coastal Mississippi region. High priority eroding areas along with applicable treatment options based on site conditions were identified. Treatments included log revetments, vegetated geogrids, live staking and brush mattress among others. Identification of appropriate stream velocities and conditions along with unit pricing for each treatment method was provided. Additional information provided would allow TNC to determine whether community assistance could support construction or if contractor labor would be required.

Project Engineer for Katherine Street Peninsula, Buffalo River; Buffalo, NY – Responsible for development of a hydrologic/hydraulic modeling of the Buffalo River to appropriately size in-channel, shoreline, streambank and upland features meant to stabilize a river bend and create additional habitat. The model was also used to analyze flood-level flows in this FEMA-mapped navigation channel.

Project Engineer for Brent Run Landfill Environmental Assessment; MI – Responsible for site survey, hydrologic/hydraulic modeling and preparation of Michigan Department of Environmental Quality permit application. This project began by assessing the natural resources associated with approximately 300 acres of land for potential expansion of the existing landfill. Wetlands and stream resources were delineated and assessed. One mile of Brent Run Creek was realigned after extensive assessments of stream morphology and hydraulics. In addition, numerous local, state and federal meetings were held to move this project forward in a manner that not only minimized wetland impacts, but also improved existing stream resources.

Project Engineer for Hyde Park Fish Passage Feasibility Study; Niagara Falls, NY – Responsible for field data collection and hydraulic modeling of fish passage alternatives around a historic dam on Gill Cree, a tributary to the Niagara River. Design alternatives included a bypass channel around the dam that would provide habitat and passage via riffle and pool features that targeted burst speeds and swimming velocities of local fish species.

Project Engineer for Phase 2 of River Raisin Dam Removals; City of Monroe, MI – Project engineer responsible for design, hydraulic modeling and construction oversight for the second phase of a Great Lakes Restoration Initiative grant-funded project to promote fish passage along the downstream 23 miles of the river before it empties into Lake Erie. Design included removal/modification of four of the eight historic low head dams along the 23-mile stretch. Each dam’s original construction was considered as some dams contained active sanitary sewer crossing the river. The design for the 260-foot-long Dam 4 included cutting a wide V-notch into the dam to lower the overflow elevation and construction of a rock ramp downstream. The next upstream dam, Dam 5, was modified by designing a 280-foot-wide rock ramp that included strategically placed fish resting spots and turtle habitat. This rock ramp also accounted for a significant storm sewer discharge point near the dam by creating a defined flow path through the ramp. The design for the Waterloo Dam at Veteran’s Park made use of available space to create a natural fish passage channel around the dam. This channel included riffle and pool structures and was lined with rock to ensure park land would not be lost to erosive flows. This site also allowed for pedestrian and fishing access via bridge and lower gradient slopes. The final upstream dam, Grape Dam, which some flow circumvented through the adjacent Mill Race channel. The historic and derelict gate structure at the entrance to the Mill Race regularly created log jams and was replaced with a series of stepped rock riffles that target fish species could pass. Burst speeds and jump heights of target species were compared with modeled velocities and profiles to determine viability of fish passage.

Project Manager for Eaton Rapids Dam Removal, MI – Responsible for hydraulic modeling and overall project management. This project with the City of Eaton Rapids designed a fish passage structure in place of an existing dam. The proposed design was a rock arch ramp that ensured velocities and depths were appropriate for expected fish species to spawn. In addition, the City aimed at creating a whitewater feature that the local boat livery could use. HEC-RAS and RIVERMorph models were used to inform design decisions and ensure regulatory requirements were met.

KEVIN E. KENNIFF, P.E., CFM

Drainage Engineer

Education

University of Iowa – B.S. Civil Engineering, 1995

Professional Registration

Professional Engineer

State of Illinois: 062-054009, 2000

State of Indiana: 11200159, 2011

State of Wisconsin: 44249-6, 2015

Certifications

Certified Floodplain Manager: IL-09-00474

Professional Societies

American Society of Civil Engineers (ASCE)

Illinois Association for Floodplain and Stormwater Management (IAFSM)

Wisconsin Association for Floodplain, Stormwater and Coastal Management (WAFSCM)

Specialized Software

HEC-RAS, Agtek, AutoCAD Land Desktop, AutoTURN, FEQ, StormCAD, WaterCAD, XPSWMM

Experience Summary

Experience since 1995 in project management, design and construction. Experience includes residential, commercial and recreational site development; flood relief and floodplain/floodway remapping as well as municipal, IDOT and ISTHA.

Representative Projects

Drainage Engineer for Four Lakes Avenue; Village of Lisle – Responsibilities included the development of hydrologic and hydraulic models to analyze the existing and proposed impacts of the bridge replacement. Hydrologic and hydraulic models included HEC-RAS and FEQ. The models were used to evaluate impacts, analyze compensatory storage requirements and calculate the scour effects and countermeasures. Calculations were used to prepare a Bridge Hydraulic Report for approval by IDOT. Coordination was required with IDOT, IDNR USACOE, DuPage County, adjacent homeowner's association and Lisle.

Project Engineer for Permit Review/Code Compliance Review; Village of Libertyville – Performed reviews of site development submittals for compliance with Libertyville codes and Lake County Watershed Development Ordinance. Reviews included special management areas, development in floodplains, wetlands, wetland buffers, storm sewer, sanitary sewer, watermain, roadway, ADA compliance and coordination with other permitting agencies. Coordination with Village staff and permit applicants was an important aspect of the permit review process.

Drainage Engineer for Hill Avenue over East Branch DuPage River; Village of Lombard – This project called for full replacement of the existing bridge. A HEC-RAS hydraulic analysis was performed to verify the size the bridge opening, evaluate scour and to check the hydraulic clearance. HEC-RAS model was checked with FEQ model. The design and modeling were unique in that an existing dam upstream of the bridge had recently been removed, the right-of-way was limited and the bridge ownership was shared between two villages.

Drainage Engineer for River Road over Prairie Creek; Will County – Project replaced the bridge over Prairie Creek. A HEC-RAS hydraulic analysis was performed to verify the type of replacement that would be required. HEC-RAS model indicated deck replacements would be sufficient. The design and modeling were unique because of the proximity of the bridge to the Kankakee River and effects of backwater. Permits were coordinated with the Will County, USACOE and IDNR.

Drainage Engineer for Blivin Street over Nippersink Creek; McHenry County DOT – Obtained and modified existing hydrologic and hydraulic modeling for the Nippersink Creek at the Blivin Road crossing. Existing modeling was modified to incorporate surveyed cross sections and then used to evaluate multiple bridge opening designs; modify floodplain and floodway boundaries; assess impacts of the floodplain and floodway on surrounding properties; develop scour reports and design scour countermeasures; provide compensatory storage; and design of an articulated concrete block revetment mat system to control erosion and provide stability to an existing oxbow creek configuration.

Drainage Engineer for Thorndale Avenue; DuPage County – Project replaced Thorndale Avenue over Salt Creek. BLA developed hydrologic and hydraulic models for the floodplain and floodway of Salt Creek to size the proposed bridge opening and analyze potential upstream and downstream impacts. Analysis included creation of a new HEC-RAS model to reflect present conditions and modification of the existing FEQ model for Salt Creek. BLA prepared wetland delineations, wetland impact evaluations and ESR documents for the proposed improvements. BLA was responsible for preparing/securing stormwater management and wetland permits.

AARON J. GRUDOWSKI

Drainage Engineer

Education

*Illinois Institute of Technology – B.S.
Civil Engineering, 2019*

*Illinois Institute of Technology –
M.E. Environmental Engineering,
2019*

Professional Societies

*American Society of Civil Engineers
(ASCE)*

*American Railway Engineering and
Maintenance-of-Way Association
(AREMA)*

Specialized Software

*ArcGIS, Autodesk AutoCAD,
GEOPAK, HEC-HMS, HEC-RAS,
MicroStation V8i, QGIS,
ProjectWise, StormCAD, TR-20*

Experience Summary

Design experience involves stormwater modeling and management reports; stormwater pollution prevention plans; roadway geometry; storm sewer; sanitary sewer; hydraulic and hydrologic analysis of streams, creeks and rivers for bridges/culverts; roadside barrier warrants; horizontal and vertical alignment; traffic signals and contract plans. Tasks include permitting process, construction plan preparation, cost estimating, utility design, utility coordination, public meetings, field survey and inspection.

Representative Projects

Design Engineer for Millstream Road; McHenry County DOT – Phase I engineering to replace two small bridges over the Kishwaukee River and the South Branch of the Kishwaukee River. Project limits began just north of Kunde Road at the Kishwaukee River bridge crossing and extended just south of Kunde Road to the crossing over the South Branch Kishwaukee River. Work included a full hydraulic report, creation and study of multiple alternatives, HEC-RAS and HEC-HMS modeling and scour analysis.

Design Engineer for Palatine Road; Village of Palatine – Phase I engineering to replace the existing storm sewer system with a newly designed drainage system based on current regulations and updated rainfall tables. Project limits began at Quentin Road and extended through Smith Street. Work included a full-scale location drainage study, placement of new storm sewers and structures, HEC-RAS and HEC-HMS modeling, outlet analysis, detention analysis and determination for the roadway widening. Because of adjacent residential homes, detention was required to be in oversized storm sewer.

Design Engineer for Russell Road; Lake County DOT – Phase I engineering to replace the existing storm sewer system with a newly designed drainage system based on current regulations and rainfall tables. Project limits extended from North Kilbourne Road to North Kenosha Road. Work included putting together Volume One of the full-scale location drainage study, gathering watershed and flood data and plan preparation.

Design Engineer for Fall Creek Trail over Fall Creek; INDOT – Phase I study for the construction of a new pedestrian bridge over Fall Creek. Project limits extended along Fall Creek from Dr. MLK, Jr. Street to the White River. Work included revision of an existing HEC-RAS model to obtain flow data and scour results. Work also included creation of a map displaying the cross sections throughout the site and an abbreviated hydraulic report based on the results from the HEC-RAS model.

Design Engineer for US 35 over Craigmile Ditch; INDOT – Phase I engineering to replace the US 35 small structure crossing Craigmile Ditch. The project is 3.5 miles south of SR 110 with stream cross sections extending from 1,000 feet upstream (east) to 1,000 feet downstream (west). Work included a full hydraulic report, creation and study of multiple bridge alternatives, HEC-RAS modeling and scour analysis.

Design Engineer for SR 25 over Willow Creek; INDOT – Phase I engineering for replacing the SR 25 small structure crossing Willow Creek. The project is 3.5 miles south of SR 110 with stream cross sections extending 1,000 feet upstream (east) and 750 feet downstream (west) where it flows into the Tippecanoe River. Work included a full hydraulic report, creation and study of multiple bridge alternatives to provide the best flow under the structure, HEC-RAS and HEC-HMS modeling and scour analysis.

Design Engineer for SR 25 over Herrel Creek; INDOT – Phase I engineering for the replacement of the SR 25 small structure crossing Herrel Creek. The project is 4.95 miles north of SR 14 with stream cross sections extending 700 feet upstream (east) and 15 feet downstream (west) into the Tippecanoe River. Work included a full hydraulic report, creation and study of multiple structure alternatives to provide the best flow under the structure, HEC-RAS and HEC-HMS modeling and scour analysis.

EDMOND LEBBOS, CFM, CWS, DECI

Environmental Engineer

Education

University of Illinois – B.S. Civil Engineering, 1988

Certifications

Certified Floodplain Manager: IL-05-00180

Certified Wetland Specialist

IDOT Certified Erosion and Sediment Control Planning Designer and Inspector

Army Corps of Engineers – Wetland Delineation and Management Training Program

Professional Affiliation

American Public Works Association (APWA); American Society of Civil Engineers (ASCE); Structural Engineering Institute (SEI); Illinois Association for Floodplain and Stormwater Management (IAFSM); Society of Wetland Scientist (SWS); Lake County Technical Advisory Committee (TAC); Lake County Municipal Advisory Committee (MAC)

Awards

1990 – Outstanding Village Employee given by the Lake Zurich Chamber of Commerce

1997 – Local Government Initiative Annual Award given by the Lake County Stormwater Management Commission

1999 – Outstanding Government Employee given by Lake Zurich Area Chamber of Commerce Nomination

2000 – Outstanding Government Employee given by Lake Zurich Chamber of Commerce Nomination

2006 – Outstanding Village Employee given by Lake Zurich Chamber of Commerce Nomination

Experience Summary

More than 30 years of municipal engineering, public and private improvement plans, permitting process review, watershed engineering analysis, floodplain manager, Soil Erosion and Sediment Control Designer and Inspector, construction inspection management, Community Rating System (CRS), wetland investigation, tree survey, watermain, sanitary, public works, general engineering and contract management experience.

Representative Projects

Buffalo Creek Streambank Stabilization; Village of Lake Zurich – Prepared plans for 3,800 feet of streambank stabilization and a grant application through the IEPA (Clean Water Act 319); administered construction according to requirements; reviewed conservancy soil and wetland impact according to WDO and Village provisions; inspected construction and SESC; coordinated with USACOE, IEPA, LCSWCD and NIPC. Construction activities involved removal of invasive species, accessing the project regarding private properties, restoring the streambanks with lunker structures, coconut rolls, A-Jacks, willow brush and creating a native vegetative buffer zone.

Buffalo Creek Streambank Stabilization; Village of Lake Zurich – Prepared plans for 800 feet of streambank stabilization and a grant application through the IEPA (Clean Water Act 319) and Watershed Management Board (WMB); administered construction according to requirements; reviewed conservancy soil and wetland impact according to WDO and Village provisions; inspected construction and SESC; coordinated with USACOE, IEPA, LCSWCD and NIPC.

Flint Creek Streambank Stabilization; Village of Lake Zurich – Prepared plans for 2,500 feet of streambank stabilization and a grant application through the IEPA (Clean Water Act 319); administered construction according to requirements; reviewed conservancy soil and wetland impact according to WDO and Village provisions; inspected construction and SESC; coordinated with USACOE, IEPA, LCSWCD and NIPC. Construction activities involved removal of invasive species, accessing the project regarding private properties, restoring the streambanks with lunker structures, coconut rolls, A-Jacks, willow brush and creating a native vegetative buffer zone.

Flint Creek Streambank Stabilization; Village of Lake Zurich – Prepared plans for 1,500 feet of streambank stabilization and a grant application through the IEPA (Clean Water Act 319); administered construction according to requirements; reviewed conservancy soil and wetland impact according to WDO and Village provisions; inspected construction and SESC; coordinated with USACOE, IEPA, LCSWCD and NIPC. Construction activities involved removal of invasive species, accessing the project regarding private properties, restoring the streambanks with lunker structures, coconut rolls, A-Jacks, willow brush and creating a native vegetative buffer zone.

Lake Zurich Shoreline Stabilization; Village of Lake Zurich – Prepared plans for 900 feet of shoreline stabilization and grant application through the IEPA (Clean Water Act 319); administered construction according to requirements; reviewed conservancy soil and wetland impact according to WDO and Village provisions; inspected construction and SESC; coordinated with USACOE, IEPA, LCSWCD and NIPC.

Charles Miller Road; McHenry County DOT – BLA completed environmental construction observation/maintenance/monitoring/management services related to the five BMP areas on the roadway project. During the required four-year site monitoring period, vegetation sampling is conducted periodically during the growing season at the five BMP areas. Information regarding findings and comments on overall conditions and site development are compiled in an Annual Report submitted to the USACOE.

JOEL J. IHDE, P.E., S.E.

Vice President and Director of Structural Engineering

Education

University of Illinois, M.S. Civil Engineering (Structures), 1989

University of Wisconsin, B.S. Civil Engineering, 1985

University of Wisconsin, B.S. Mining Engineering, 1981

Professional Registration

Professional Engineer:

State of Illinois: 062-046287, 1990

State of Indiana: 10707723, 2007

State of Wisconsin: 39560-6, 2008

Structural Engineer:

State of Illinois: 081-005051, 1992

Certifications

National Bridge Inspection Standard (NBIS) Program Manager: State of Illinois and Wisconsin

Team Member: State of Indiana

Professional Societies

Member – Structural Engineers Association of Illinois; Precast/Prestressed Concrete Institute; American Council of Engineering Companies of Illinois (ACEC/Illinois)

Specialized Training

National Highway Institute: Safety Inspection of In-Service Bridges

Experience Summary

Over 30 years in structural design of bridges and structures. Responsible for preliminary and contract plans, inspections, cost estimates, specifications and design support during construction for a variety of major civil engineering projects. Structural design experience includes complete design for new and rehabilitated highway and railroad structures, foundation selection, substructure design and steel and concrete superstructure design, seismic analysis and fatigue evaluation; experience also includes rail maintenance facilities, deep tunnel projects, underground stormwater storage structures, parking garages, retaining walls, box culverts and tower foundations.

Representative Projects

Structural Engineer for Buckbee Creek Outfall; City of Rockford – BLA was selected by the City of Rockford to prepare design alternatives to address the bank erosion and scour at the Buckbee Creek Rock River Outfall. The concrete channel had eroded and undermined leaving a large scour hole and creating bank erosion at the Rock River Water Reclamation District treatment plant. The area was highly eroded and had numerous slope failures. Preliminary and final engineering included design of sheet piling to prevent future undermining of the concrete channel; design and selection of erosion control protection including hard armor revetment mats; hydraulic modeling of the channel to determine flood flows and velocities; development of multiple alternatives with estimates of probable cost; coordination with City staff; and ultimate selection of a preferred alternative.

Structural Engineer for Harmon Park Stabilization; City of Rockford - A combination of rock-filled mats, riprap and sheet piling was used to stabilize the granular soils of the outfall. BLA prepared construction drawings for the implementation of the preferred alternative and quantities, cost estimates and bid assistance. Design of energy dissipation and erosion control measures at storm sewer outfalls which experience frequent erosion at Harmon Park were included in the improvement plans at the request of the City of Rockford.

Structural Engineer for Big Timber Road; Kane County DOT – Provided design plans for the stabilization of embankment along Big Timber Road between Higgins Road and Powers Road. Stabilization methods included both driven piles and the removal and replacement of unsuitable foundation materials. Also included in the design was the reconstruction of a junction chamber and box culvert extension.

Structural Engineer for River Road over Prairie Creek; Will County Department of Highways – Work included P&P submittal, Bridge Condition Report, Geotechnical Report, Hydraulic Report and TS&L. Work also included Phase II prefinal and final submittals, permitting and utility coordination. This bridge is adjacent to a Department of Conservation Park requiring environmental and 4f work to be included into the scope. River Road is a heavily traveled truck route because of the nearby intermodal facility; this was factored into construction staging and maintenance of traffic design.

Structural Engineer for Millstream Road Bridges of the Kishwaukee River; McHenry County DOT – BLA performed detail inspection of the two bridges over the Kishwaukee River to determine the deficiencies and prepare a Technical Memorandum outlining the proposed improvement options. After concurrence on the memo, BLA prepared final plans for rehabilitation of the bridges. The design schedule was expedited. The improvements consisted of removal of the existing bituminous overlay and replacement with a reinforced latex modified concrete overlay. Work also included superstructure repairs, substructure repairs and bridge deck joint replacement. The project was completed under a full road closure.

Operating History

BLA is an Illinois corporation established in 1978 as a professional civil engineering consulting firm. Our corporate office is in Itasca (acting primary office) and we have an office in Indiana.

BLA has a full-time staff of 60+ professional, technical and support personnel offering extensive expertise in the fields of civil engineering, structural engineering, construction engineering and environmental services. That expertise is utilized on municipal engineering, site development engineering, roadway/transportation projects, environmental studies, construction, feasibility studies and design reports for federal, state and local government agencies, consulting firms and private industry.

Local Principals/Directors:

Dan Bruckelmeyer, PE – President and CEO
Joel Ihde, PE, SE – Structural Engineering
Ed Lebbos, CFM, CWS, DECI – Environmental
Jennifer Mitchell, PE, PTOE – Preliminary Services
Kerry Field, PE – Construction

Design Department – 11 Licensed Engineers
Construction Department – 7 Licensed Engineers

We have worked on projects for stormwater needs in many municipalities. Our knowledge of waterway projects is enhanced because of our work with many municipalities and IDOT BLRS; we have worked with the respective towns and government agencies to arrive at a solution where everyone is happy. Our municipal review of plans, codes and construction is diverse. Our structural department has the experience to make sound engineering decisions involving structural elements utilized for stabilization measures. We also have exhibited an outstanding facet of working with the public and residents in numerous municipalities about solving drainage and stormwater problems.

We have worked on projects for stormwater needs in many municipalities. Our knowledge of waterway projects is enhanced because of our work with many municipalities and IDOT BLRS; we have worked with the respective towns and government agencies to arrive at a solution where everyone is happy. Our municipal review of plans, codes and construction is diverse. Our structural department has the experience to make sound engineering decisions involving structural elements utilized for stabilization measures. We also have exhibited an outstanding facet of working with the public and residents in numerous municipalities about solving drainage and stormwater problems.

Since its inception, BLA has earned and maintained a consistent reputation of professional competence and integrity. Many clients perform periodic reviews/evaluations of our firm and we have repeatedly had exceptional ratings.

Why Choose BLA?

Our team has a broad range of experience from dealing with many clients where we have performed similar services. We would use this knowledge to enhance the project so the residents are on board.

- *We are flexible and creative in finding ways to meet your needs*
- *We have recent and strong experience with local counties and municipalities*
- *We will serve the staff of the Village of Orland Park and its residents*



BLA Experience

BLA and our team members have worked on many types of projects throughout the area. We recently completed projects ranging from small municipal paving work to multi-lane roadway reconstruction with construction values of more than \$100 million. You will be getting the expert staff and their diverse experience since each municipality has different needs.

BLA is here to serve the Village of Orland Park



Our commitment to attend meetings (staff and neighborhood) is how we normally do business. We have met with clients in local schools with residents to find out their concerns and to work **with them** to solve problems. **We hand deliver all submittals** and that is our company policy. We urge you to call our clients and ask them about our service. We intend to supply the same service to Orland Park.


PROPOSAL SUMMARY SHEET
RFP 21-015
Tinley Creek Streambank Stabilization

Business Name: BLA, Inc.
Street Address: 333 Pierce Road, Suite 200
City, State, Zip: Itasca, Illinois 60143
Contact Name: Dan Bruckelmeyer
Title: President and Chief Executive Officer
Phone: 630-438-6400 Fax: 630-438-6444
E-Mail address: dbruckelmeyer@bla-inc.com

Price Proposal

PROPOSAL TOTAL **\$ 176,662.18**
(On an hourly, not to exceed fee basis)

AUTHORIZATION & SIGNATURE

Name of Authorized Signee: Dan Bruckelmeyer
Signature of Authorized Signee: 
Title: President and Chief Executive Officer Date: March 15, 2021

 **ORLAND PARK**
CERTIFICATE OF COMPLIANCE

The undersigned Dan Bruckelmeyer, as President/CEO
(Enter Name of Person Making Certification) *(Enter Title of Person Making Certification)*

and on behalf of BLA, Inc., certifies that:
(Enter Name of Business Organization)

1) BUSINESS ORGANIZATION:

The Proposer is authorized to do business in Illinois: Yes No []

Federal Employer I.D.#: 36-4263432
(or Social Security # if a sole proprietor or individual)

The form of business organization of the Proposer is (*check one*):

- Sole Proprietor
- Independent Contractor (*Individual*)
- Partnership
- LLC
- Corporation Illinois 12-16-1978
(State of Incorporation) *(Date of Incorporation)*

2) ELIGIBILITY TO ENTER INTO PUBLIC CONTRACTS: Yes No []

The Proposer is eligible to enter into public contracts, and is not barred from contracting with any unit of state or local government as a result of a violation of either Section 33E-3, or 33E-4 of the Illinois Criminal Code, or of any similar offense of "Bid-rigging" or "Bid-rotating" of any state or of the United States.

3) SEXUAL HARRASSMENT POLICY: Yes No []

Please be advised that Public Act 87-1257, effective July 1, 1993, 775 ILCS 5/2-105 (A) has been amended to provide that every party to a public contract must have a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105 (A) (4) and includes, at a minimum, the following information: (I) the illegality of sexual harassment; (II) the definition of sexual harassment under State law; (III) a description of sexual harassment, utilizing examples; (IV) the vendor's internal complaint process including penalties; (V) the legal recourse, investigative and complaint process available through the Department of Human Rights (the "Department") and the Human Rights Commission (the "Commission"); (VI) directions on how to contact the Department and Commission; and (VII) protection against retaliation as provided by Section 6-101 of the Act. (Illinois Human Rights Act). (emphasis added). Pursuant to 775 ILCS 5/1-103 (M) (2002), a "public contract" includes "...every contract to which the State, any of its political subdivisions or any municipal corporation is a party."

4) EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE: Yes No []

During the performance of this Project, Proposer agrees to comply with the "Illinois Human Rights Act", 775 ILCS Title 5 and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750, et seq. The

Proposer shall: (I) not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, or physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; (II) examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization; (III) ensure all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, or physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; (IV) send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Vendor's obligations under the Illinois Human Rights Act and Department's Rules and Regulations for Public Contract; (V) submit reports as required by the Department's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and Department's Rules and Regulations for Public Contracts; (VI) permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and Department's Rules and Regulations for Public Contracts; and (VII) include verbatim or by reference the provisions of this Equal Employment Opportunity Clause in every subcontract it awards under which any portion of this Agreement obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as the other provisions of this Agreement, the Proposer will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Proposer will not utilize any subcontractor declared by the Illinois Human Rights Department to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations. Subcontract" means any agreement, arrangement or understanding, written or otherwise, between the Proposer and any person under which any portion of the Proposer's obligations under one or more public contracts is performed, undertaken or assumed; the term "subcontract", however, shall not include any agreement, arrangement or understanding in which the parties stand in the relationship of an employer and an employee, or between a Proposer or other organization and its customers. In the event of the Proposer's noncompliance with any provision of this Equal Employment Opportunity Clause, the Illinois Human Right Act, or the Rules and Regulations for Public Contracts of the Department of Human Rights the Proposer may be declared non-responsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and this agreement may be canceled or avoided in whole or in part, and such other sanctions or penalties may be imposed or remedies involved as provided by statute or regulation.

5) TAX CERTIFICATION: Yes No

Contractor is current in the payment of any tax administered by the Illinois Department of Revenue, or if it is: (a) it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate Revenue Act; or (b) it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.

6) AUTHORIZATION & SIGNATURE:

I certify that I am authorized to execute this Certificate of Compliance on behalf of the Contractor set forth on the Proposal, that I have personal knowledge of all the information set forth herein and that all statements, representations, that the Proposal is genuine and not collusive, and information provided in or with this Certificate are true and accurate. The undersigned, having become familiar with the Project specified, proposes to provide and furnish all of the labor, materials, necessary tools, expendable equipment and all utility and transportation services necessary to perform and complete in a workmanlike manner all of the work required for the Project.

ACKNOWLEDGED AND AGREED TO:



Signature of Authorized Officer

Dan Bruckelmeyer
Name of Authorized Officer

President/CEO
Title

March 15, 2021
Date

REFERENCES

Provide three (3) references for which your organization has performed similar work.

Bidder's Name: BLA, Inc.
(Enter Name of Business Organization)

1. ORGANIZATION Village of Palatine
ADDRESS 148 W. Illinois Avenue - Palatine, Illinois 60067
PHONE NUMBER 847-202-6960
CONTACT PERSON Matt Barry [mbarry@palatine.il.us]
YEAR OF PROJECT various projects; client since 1997

2. ORGANIZATION Village of Wilmette
ADDRESS 711 Laramie Avenue - Wilmette, Illinois 60091
PHONE NUMBER 847-853-7627
CONTACT PERSON Brigitte Berger-Raish [bergerb@wilmette.com]
YEAR OF PROJECT various projects; client since 2018

3. ORGANIZATION Village of Bensenville
ADDRESS 717 E. Jefferson Street - Bensenville, Illinois 60106
PHONE NUMBER 630-954-1196
CONTACT PERSON Mehul Patel [mpatel@bensenville.il.us]
YEAR OF PROJECT various projects; client since 2012

 **ORLAND PARK**
INSURANCE REQUIREMENTS

Please submit a policy Specimen Certificate of Insurance showing bidder's current coverage's

WORKERS COMPENSATION & EMPLOYER LIABILITY

Workers' Compensation – Statutory Limits
Employers' Liability
\$1,000,000 – Each Accident \$1,000,000 – Policy Limit
\$1,000,000 – Each Employee
Waiver of Subrogation in favor of the Village of Orland Park

AUTOMOBILE LIABILITY

\$1,000,000 – Combined Single Limit

GENERAL LIABILITY (Occurrence basis)

\$1,000,000 – Each Occurrence \$2,000,000 – General Aggregate Limit
\$1,000,000 – Personal & Advertising Injury
\$2,000,000 – Products/Completed Operations Aggregate
Primary Additional Insured Endorsement & Waiver of Subrogation in favor of the Village of Orland Park

PROFESSIONAL LIABILITY

\$1,000,000 Limit - Claims Made Form, Indicate Retroactive Date & Deductible

EXCESS LIABILITY (Umbrella-Follow Form Policy)


\$2,000,000 – Each Occurrence
\$2,000,000 – Aggregate

EXCESS MUST COVER: General Liability, Automobile Liability, Workers Compensation

Any insurance policies providing the coverages required of the Consultant, excluding Professional Liability, shall be specifically endorsed to identify "The Village of Orland Park, and their respective officers, trustees, directors, officials, employees, agents, representatives and assigns as Additional Insureds on a primary/non-contributory basis with respect to all claims arising out of operations by or on behalf of the named insured." If the named insureds have other applicable insurance coverage, that coverage shall be deemed to be on an excess or contingent basis. The policies shall also contain a Waiver of Subrogation in favor of the Additional Insureds in regards to General Liability and Workers Compensation coverages. The certificate of insurance shall also state this information on its face. Any insurance company providing coverage must hold an A VII rating according to Best's Key Rating Guide. Permitting the contractor, or any subcontractor, to proceed with any work prior to our receipt of the foregoing certificate and endorsement, however, shall not be a waiver of the contractor's obligation to provide all of the above insurance.

Proposer agrees that prior to any commencement of work to furnish evidence of Insurance coverage providing for at minimum the coverages and limits described above directly to the Village of Orland Park, Nicole Merced, Purchasing Coordinator, 14700 S. Ravinia Avenue, Orland Park, IL 60462. Failure to provide this evidence in the time frame specified and prior to beginning of work may result in the termination of the Village's relationship with the contractor.

ACCEPTED & AGREED THIS 15th DAY OF March, 2021



Signature

Dan Bruckelmeyer - President/CEO
Printed Name & Title

Authorized to execute agreements for:

BLA, Inc.

Name of Company

COST ESTIMATE OF CONSULTANT SERVICES

FIRM BLA, Inc.
 SECTION --
 PROJECT NAME Village of Orland Park
Tinley Creek Bank Stabilization

DATE 3/22/2021

Design Activities/Plan Preparation

CLASSIFICATION	LOADED RATE	HOURS	COST
Principal	\$235.00	12	\$2,820.00
Director of Structural Engineering	\$190.00	24	\$4,560.00
Director of Environmental Services	\$135.00	50	\$6,750.00
Senior Project Manager	\$175.00	45	\$7,875.00
Project Manager	\$135.00	212	\$28,620.00
Project Engineer	\$95.00	0	\$0.00
Design Engineer	\$80.00	630	\$50,400.00
Public Outreach Coordinator	\$80.00	4	\$320.00
Direct Costs			\$570.00
BLA Total			977
			\$101,915.00

	Per Meeting Rate	# Meetings	Mtg. Allowance
On-site Homeowner Meetings Allowance	\$ 693.00	5	\$ 3,465.00

Topographic Survey (Marchese & Sons)	\$65,944.08
Environmental (Huff & Huff)	\$5,338.10

Total Fee -Tinley Creek Bank Stabilization	977	\$176,662.18
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BLA Manhours			
PROJECT: Tinley Creek Bank Stabilization			
Task 1 - Meetings			TOTAL MH'S
Kickoff & MWRDGC Coordination (2 meetings, 2 people/Ea @ 2 hrs)			8
Monthly Project Meetings (PM only @ 1 hrs; assume 10 mtgs)			10
Property Owner Discussions (Addendum 1 requests a per mtg cost, with an allowance for 5 total mtgs) <i>-assume 3 hrs/Ea, PM & Public Outreach Coord. Per mtg, plus design vehicle day rate</i>			Allowance
Public Meeting			8
Pre-application meeting with USACE, IDNR, MWRDGC			4
Board of Trustees presentation			4
		Task 1 Subtotal	34
Task 2 - Data Collection			
Review previous plan			20
Coordinate subcontractors			4
Site Visit (grain size, channel dims, photos, wetlands, ID trees)			48
		Task 2 Subtotal	72
Task 3 - Design Development			
Hydraulic/hydrologic modeling, output, figures			80
Channel stability and feature calcs/spacing			60
		Design Subtotal	140
Plan Preparation			
	No. Sheets	MH Per Sheet	TOTAL MH'S
Cover Sheet	1	4	4
General Notes, Index, Standards	2	4	8
Overall Layout Plan	3	2	6
Existing Layout and Demo Plan	11	4	44
Plan and Profile	11	10	110
Alignment and Ties	6	6	36
Cross Sections	17	6	102
Details	11	2	22
Schedule of Quantities	3	4	12
Traffic Control Plan	3	3	9
SESC Plan	11	3	33
Planting Plan	11	5	55
Tree Schedule	3	1	3
Planting Schedule	3	3	9
Retaining Walls Plan and Elevation	10	6	60
Structural Notes	1	3	3
Typical Wall Details	4	4	16
Wall Data Schedules	1	2	2
Reinforcing Bar Schedule	1	2	2
	Plan Preparation Subtotal	113	536
Additional Deliverables			
Identified properties not critical to project (1 submittal), at 30%			8
Estimate of Cost (2 Submittals @ 12 Hours/Ea) <i>-includes O&M costs for the 90% submittal</i>			24
Easement Exhibits (1 Submittal @ 40 properties, 1 Hours/Ea)			40
Special Provisions/Front End Bid Documents			48
Permit Applications			44
		Additional Deliverables Subtotal	164
		Task 3 Subtotal	840
Task 4 - Construction Bidding Support			
Construction Schedule			7
Compiled PS&E bidding package			9
Provide contractor selection criteria			2
Develop scope of services for construction engineering/observation			5
Assist Village reviewing bids			8
		Task 4 Subtotal	31
		Total MH	977

BLA Direct Costs
PROJECT: Tinley Creek Bank Stabilization

		<u>#</u>	<u>Rate</u>	<u>Total</u>
<i>Task 1</i>				
<u>Public Meeting</u>				
Vehicle		1	\$48.00	\$48.00
			SubTotal	\$48.00
<u>Public Meeting</u>	<u>Size</u>	<u>Sheets</u>	<u>Sets</u>	
Impacted property exhibits	11"x17"	40	2	\$0.25
Postage - mail invite to each prop owner		40	1	\$0.55
				SubTotal
				\$42.00
<u>Pre-application Meeting</u>				
Vehicle		1	\$48.00	\$48.00
			SubTotal	\$48.00
<u>Pre-application Meeting</u>	<u>Size</u>	<u>Sheets</u>	<u>Sets</u>	
Exhibits	11"x17"	15	2	\$0.25
				SubTotal
				\$7.50
<u>Board of Trustees Presentation</u>				
Vehicle		1	\$48.00	\$48.00
			SubTotal	\$48.00
			Total Task 1 Direct Cost	\$193.50
<i>Task 2</i>				
<u>Field Visits</u>				
Vehicle		4	\$48.00	\$192.00
			SubTotal	\$192.00
Flagging ribbon, tree tags		1	\$15.00	\$15.00
			SubTotal	\$15.00
			Total Task 2 Direct Cost	\$207.00
<i>Task 3</i>				
<u>Plots</u>				
Check Plot, half size plans (11x17), 3 submittals	11"x17"	113	3	0.25
Submittal Plot, full size plans (11x17), 3 submittals	24"x36"	113	3	0.25
				Total Task 3 Direct Cost
				\$169.50
			Grand Total	\$570.00

CONSULTING
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