#### Illinois Department of Natural Resources CONSERVATION PLAN

(Application for an Incidental Take Authorization)
Per 520 ILCS 10/5.5 and 17 Ill. Adm. Code 1080

#### 150-day minimum required for public review, biological and legal analysis, and permitting

PROJECT APPLICANT: The Forest Preserve District of Kane County (District) 1996 S. Kirk Rd, Suite 320, Geneva, IL 60134

PROJECT NAME: Pingree Grove Wetland Bird Habitat Enhancement.

COUNTY: Kane

AREA OF IMPACT (acreage): This project will temporarily impact up to 6.5 acres of marsh through shallow excavation not to exceed 3 feet in depth.

The incidental taking of endangered and threatened species shall be authorized by the Illinois Department of Natural Resources (IDNR) <u>only</u> if an applicant submits a Conservation Plan to the IDNR Incidental Take Coordinator that meets the following criteria:

- 1. A description of the impact likely to result from the proposed taking of the species that would be covered by the authorization, including but not limited to -
  - A) identification of the <u>area to be affected by the proposed action</u>, include a legal description and a detailed description including street address, map(s), and <u>GIS shapefile</u>. Include an indication of ownership or control of affected property. Attach photos of the project area.

The project site is Pingree Grove Forest Preserve, which is owned by the District. The project site is located at 14N187 US Route 20 in Rutland and Plato Township, Kane County, Illinois {Sections 32 and 33, T42N, R7E and Section 3, T41N, R7E} (Figure 1). The area of the preserve is 437 acres (Figure 2). Wetland enhancements would occur within a 110.2-acre marsh complex located at Pingree Grove Forest Preserve. The marsh complex has a surface connection to Tyler Creek, which is a tributary to the Fox River. Spoil excavated from wetland scrapes will be deposited within adjacent uplands at Pingree Grove Forest Preserve.

B) biological data on the affected species including life history needs and habitat characteristics. Attach all biological survey reports.

The state-endangered Blanding's Turtle is known to occur within the project site. District staff has regularly monitored the population using live-trapping, mark-recapture and telemetry since 2009. The District provides reports summarizing our annual monitoring efforts to the IDNR Endangered Species Program Manager and Endangered Species Recovery Specialist for Northern Illinois.

#### Blanding's Turtle (Emydoidea blandingii)

The Blanding's Turtle (*Emydoidea blandingii*) is a long-lived, semi-aquatic turtle in decline throughout much of its range. It was designated as endangered in Illinois in 2009 (ILL. ADM. CODE, CH. I, SEC. 1010), where its range is largely restricted to the northern third of the state.

Blanding's Turtles can reach ages in excess of 70 years when survival is high. They exhibit delayed sexual maturity (14-20 years) with females taking slightly longer to reach sexual maturity.

As a semi-aquatic turtle, both wetlands and uplands are crucial components of Blanding's Turtle habitat. Generally, the core of Blanding's Turtle habitat is a permanent wetland, with smaller and often more temporary wetlands being used for foraging and temporary refugia. The upland component of their habitat is vital for nesting areas and movement corridors. Nesting typically occurs from late May through June. Males and females are known to make long-distance movements through aquatic and terrestrial habitats to forage, mate, nest and select overwintering sites.

Blanding's Turtles are omnivores and have been documented to consume a wide range of food items including: crayfish and other crustaceans, insects, fish, amphibians and plant material.

C) **description of project activities** that will result in taking of an endangered or threatened species, including practices to be used, a <u>timeline</u> of proposed activities, and any permitting reviews, such as a USFWS biological opinion or USACE wetland review. Please consider all potential impacts such as noise, vibration, light, predator/prey alterations, habitat alterations, increased traffic, etc.

#### **Project Activities**

- 1) Equipment access for wetland enhancement project. Machinery will require access to the wetland scrape locations. Access will be gained by traveling through designated access pathways in uplands adjacent to the wetland.
- 2) Up to 6.5 acres of wetland scrapes will be created across 5 wetland scrape locations within a 110.2 acre marsh complex. The wetland scrapes will be created using amphibious or long-reach excavators. The maximum depth of the excavations will be 3 feet.
- 3) The creation of a small rock riffle will require depositing stone on a 0.01 acre area to stabilize an inflow from under Route 20.
- 4) Spoil excavated from the wetland scrapes will be transported to designated spoil respread areas in upland locations within Pingree Grove Forest Preserve. Material will be removed from the marsh with low ground pressure amphibious equipment in small quantities to limit the potential for impacts to turtles. It will be transported to the proposed disposal areas with this equipment where it will be placed as described on the plans and herein. This will include regular inspection of work areas for turtles and handling in a way to maximize the ability to identify any turtles

within the area prior to equipment being employed. All spoil areas will be restored with the native vegetation shown on the plans as soon as final placement of spoils occurs.

#### Project Timeline (2022-2023)

October-April: no project activity.

<u>May-July</u>: pre-project live trapping surveys. Individuals that meet minimum size requirements will be fitted with radio transmitters.

<u>August</u>: monitor proposed scrape locations for the presence of Blanding's Turtles with transmitters. Install exclusion fencing, silt fencing and preparation of access pathways. Scrape creation and spoil respreading would begin if all necessary permits and clearances have been received.

<u>September:</u> wetland scrape creation and spoil respreading.

#### Project Timeline (2023-2026\*)

May-July: post-project live trapping.

May-October: continued tracking of with radio transmitters.

November-December: prepare and submit annual report to ITA coordinator

\*2024-2027 if wetland scrape construction extends into 2023.

#### **Additional Permit Reviews**

Jeff Mengler of Hey & Associates has submitted an application to the U.S. Army Corps of Engineers, Chicago District on behalf of the District. The request has been assigned a number (LRC-2022-00241) and project manager, Anastasia Brown.

The District began consulting with the U.S. Fish and Wildlife Service regarding endangered and threatened species. The project was assigned a project code (2022-0023857). The District received a list of federally threatened and endangered species that may occur in our proposed project location and may be affected by or proposed project. The District is working with the U.S. Fish and Wildlife Service to determine any conservation measures that will be necessary for this project.

D) Explanation of the anticipated adverse effects on listed species; how will the applicant's proposed actions impact each of the species' life cycle stages.

#### **Equipment Access**

Individual Blanding's Turtles could be adversely impacted if they are struck by equipment while moving through, or resting in upland habitat. Equipment access could potentially degrade turtle nesting habitat if excessive soil compaction occurs.

#### **Wetland Scrape Creation**

Individual Blanding's Turtles could be adversely impacted if they are struck by the excavator bucket in the process of removing spoil from the wetland scrape locations. Turtles could potentially be struck by equipment at the wetland scrape access points on the periphery of the wetland. If scrape creation was conducted during the inactive season Blanding's Turtles could potentially be disturbed during brumation.

#### **Spoil Transport and Respreading**

Although unlikely, it is possible that individual turtles could be inadvertently transported from the wetland to spoil respread locations in soil within the project site. If a turtle is transported to a spoil respread location and remains in the area when spoil is being respread by machinery, the turtle could be injured or killed.

- 2) Measures the applicant will take to <u>minimize and mitigate</u> that impact <u>and</u> the <u>funding</u> that will be available to undertake those measures, including, but not limited to -
  - A) plans to <u>minimize the area affected</u> by the proposed action, the estimated <u>number of individuals</u> of each endangered or threatened species that will be taken, and the <u>amount of habitat</u> affected (please provide an estimate of area by habitat type for each species).

The primary objective of this project is to enhance wetland habitat at Pingree Grove Forest Preserve, therefore minimizing the area affected would not be desirable for this project. The project did consider the habitat quality and data from previous Blanding's Turtle research to select locations that are primarily cattail monocultures and have had historically low usage by Blanding's Turtles at the site.

The project will affect up to 6.5 acres of habitat within the marsh complex. The potential negative impacts to habitat will be short-term (i.e. during construction). The end result will be beneficial to Blanding's Turtles and marsh birds. Using existing data on the density of Blanding's Turtles at the site derived from 12 years of mark-recapture data it is estimated that a maximum of 4-11 individual Blanding's Turtles could be affected or "taken".

Most conservative potential take scenario: Only wild born turtles captured and marked were considered in calculating the estimate. <u>Estimation</u>: 0.627 turtles/acre \* 6.5 acres = 4 turtles. This assumes that all marked turtles have survived and that turtles are uniformly distributed across the marsh.

Least conservative potential take scenario: Considers all wild born turtles marked and all head-starts released at the site. Does not account for annual mortality of the hatchlings and head-starts. This assumes that all head-started turtles have survived and that turtles are uniformly distributed across the marsh. These assumptions are unlikely to be met, therefore this estimate is likely to be inflated. Estimation: 1.94 turtles/acre \* 6.5 acres = 11 turtles.

B) plans for management of the area affected by the proposed action that will enable continued use of the area by endangered or threatened species by maintaining/re-establishing

suitable habitat (for example, native species planting, invasive species control, use of other best management practices, restored hydrology, etc.).

This project is intended to enhance habitat conditions for wetland birds at Pingree Grove Forest Preserve, including 3 state listed species of wetland bird (Least Bittern, American Bittern and Common Gallinule). The wetland scrapes will increase the amount and interspersion of open water habitat within the marsh complex for use by marsh birds. In addition, the shallow areas that were selected for scrapes are currently dominated by dense moncultures of narrowleaf cattail (*Typha angustfolia*). The scrapes will provide deeper locations within the marsh complex where Blanding's Turtles can forage, overwinter, and take refuge in drought years when most of the marsh is likely to be dry.

In 2020 and 2021 the District invested in the chemical control off common reed (*Phragmites australis*) across 52 acres, and reed canary grass (*Phalaris arundinacea*) across 32 acres of the project area to reduce the cover of invasive species. Additionally, the District's Natural Resource Management staff conduct controlled burns within the marsh complex on a 2-3 return interval.

C) description of <u>all measures to be implemented to avoid, minimize, and mitigate</u> the effects of the proposed action on endangered or threatened species.

- Avoidance measures include working outside the species' habitat.
- Minimization measures include timing work when species is less sensitive or reducing the project footprint.
- Mitigation is additional beneficial actions that will be taken for the species such as needed research, conservation easements, propagation, habitat work, or recovery planning.
- It is the <u>applicant's responsibility to propose mitigation measures</u>. IDNR expects
  applicants to provide species conservation benefits 5.5 times larger than their adverse
  impact.

In an effort to prevent impacts caused by equipment access, wetland scrape excavation and spoil respreading, the District and contractors will use a combination of project timing, field surveys, exclusion, inspection, and education.

The following measures will be implemented to avoid, minimize and mitigate any potential effects on the Blanding's Turtle.

#### Avoidance and Minimization

- The project seeks to enhance habitat conditions for wetland birds and the Blanding's Turtle, therefore complete avoidance of their habitat is not desirable.
- The areas that were chosen for enhancement were specifically selected to avoid areas that are known to be regularly utilized by Blanding's Turtles.

- Equipment access pathways and spoil respread locations were selected to avoid degrading known turtle nesting habitat through soil compaction or burial with organic material. The areas selected have degraded vegetation and are not known to be frequented by the turtles.
- The project will avoid and minimize potential impacts to nesting females, nests/eggs and overwintering turtles by limiting construction to July-September.
- The section of equipment access pathway with the highest potential for impacts to Blanding's Turtles will be enclosed with exclusionary silt fencing to prevent turtle access. Silt fencing will be buried to depth of 4 inches to prevent burrowing and shall be inspected weekly or within 24 hours of a rain event.
- Machinery must be inspected by District staff prior to unloading from the trailer at the project location and be found to be clean and free of seeds, soil, and debris.
- Prior to the start of all construction activity, the project area shall be visually surveyed by
  District staff and contractors for the presence of Blanding's Turtles. Construction
  equipment will be parked on-site in an upland location when not in use. The parking area
  shall be inspected for the presence of turtles prior to moving.
- Prior to construction, contractors will be provided with a handout to aid in identifying Blanding's Turtle should they encounter one in the project area. Contractors will be advised that they are not authorized to handle Blanding's Turtles and that work shall be halted if a Blanding's Turtle is encountered in the project area. IDNR will be informed if a Blanding's Turtle is encountered in the project area during construction.

#### Mitigation

• Conservation benefits for Blanding's Turtles will be derived from the performance of the project and will serve as mitigation.

D) plans for <u>monitoring</u> the effects of the proposed actions on endangered or threatened species, such as <u>species and habitat monitoring</u> before and after construction, include a plan for follow-up <u>reporting to IDNR</u>.

The District will take measures to prevent the taking of Blanding's Turtles during construction and does not anticipate a negative impact on the local population. Pre and post project monitoring shall serve to prevent incidental take and measure the extent to which turtles utilize the wetland scrapes.

#### **Pre-project monitoring**

District staff will conduct live-trapping surveys in and near the areas selected for wetland scrapes. The surveys will be conducted May-July, and a traps will be deployed for a minimum of 100 trapnights. Captured Blanding's Turtles will be individually marked and adult turtles will be fitted with VHF transmitters. This would allow staff to monitor the locations selected for scrapes prior

to construction. If the IDNR determines that it would be practicable, District staff could temporarily relocate these individuals before construction begins to avoid potential take.

#### Post-project monitoring

District staff will annually conduct live trapping surveys in the wetland scrape areas for a minimum of 100 trap-nights per year in May-July for 3 years post-construction. Additionally, staff will track individuals with radio-transmitters to determine if the scrapes are being utlized by Blanding's Turtles. Post-project monitoring results shall be provided annually to the IDNR Endangered Species Coordinator and the IDNR Incidental Take Authorization Coordinator.

E) <u>adaptive management practices</u> that will be used to deal with changed or unforeseen circumstances that affect on endangered or threatened species. Consider environmental variables such as flooding, drought, and species dynamics as well as other catastrophes. Management practices should include contingencies and specific triggers. Note: Not foreseeing any changes does not quality as an adaptive management plan.

#### Blanding's Turtle In Project Area

If a Blanding's turtle is observed within an access pathway, wetland scrape or spoil respread location by District staff or the Contractor, work shall be suspended in that area until the turtle can be safely moved by staff with proper permits. IDNR staff shall be informed of any Blanding's observation within an access pathway, wetland scrape or spoil respread location.

#### Flooding/High Water

If field conditions are such that wetland scrape creation is not safely possible or effective (such as high-water levels), operations will be suspended until suitable conditions return.

#### Winter Dormancy

If field conditions or project delays dictate that scrape excavation cannot be completed by October 1, operations will be suspended on September 30 until the next year.

#### **Equipment Failure**

The contractor shall be required to have a spill response plan and sufficient equipment on-site to respond promptly to any equipment failure that results in the discharge of hydraulic fluid, fuel or other petroleum product into the wetland. Spills shall be immediately reported to the necessary authorities and the District.

F) <u>verification that adequate funding exists</u> to support and implement all mitigation activities described in the conservation plan. This may be in the form of bonds, certificates of insurance, escrow accounts, or other financial instruments adequate to carry out all aspects of the Conservation Plan.

The funding for this project will be provided by the District through their annual budget. The District budgeted \$350,000 in fiscal year 21/22 in its Construction and Development fund. These funds can be carried to the next fiscal year if project timing dictates.

3) A description of alternative actions the applicant considered that would reduce take, and the reasons that each of those alternatives was not selected. A "no-action" alternative" shall be included in this description of alternatives. Please, describe the economic, social, and ecological tradeoffs of each action.

The no-action alternative would leave the marsh with dense monocultures of narrowleaf cattail, few areas with an interspersion of open water and native vegetation, and limited areas where water will persist in drought conditions. This would not result in progress toward the goals of enhancing habitat condition for wetland birds and Blanding's Turtles at Pingree Grove Forest Preserve. Ultimately, land managers must strengthen the diversity and climate resiliency of wetlands where they are managing for endangered species to increase the likelihood of population persistence.

The District initially considered installing a water control structure on the outlet for the marsh to gain control of water levels in a more traditional way. Staff reached out the owner of the railroad ROW that forms the North edge of the marsh and they were not amenable to any alterations that resulted in additional water against their ballast.

The District also considered creating a berm along the North border of the marsh to gain control of water levels without placing additional water on the railroad ROW. This alternative was determined to be cost prohibitive and challenging from a regulatory perspective. This alternative would have resulted in a substantially higher level of disturbance to the wetland.

4) Data and information to indicate that the proposed taking will not reduce the likelihood of the survival or recovery of the endangered or threatened species in the wild within the State of Illinois, the biotic community of which the species is a part, or the habitat essential to the species existence in Illinois.

While the potential for take during project construction exists, the disturbances to Blanding's Turtles and their habitat at Pingree Grove marsh will be short-term. The project will ultimately result in conservation benefits to the species and will not reduce the resiliency, redundancy or representation of Blanding's Turtles in Illinois. The project will aid the recovery of the species in Kane County.

5) An implementing agreement, which shall include, but not be limited to (on a separate piece of paper containing signatures):

A) the names and signatures of all participants in the execution of the conservation plan;

Forest Preserve District of Kane County Executive Director

Signature: Min on May Printed Name: Women a. Meyers

Date: 4/8/22

	Forest Preserve District of Kane County Director of Natural Resource Management
	Signature:
	Printed Name: PENSAMIN HAPPORTHUM
	Date: 6 8 22
	Forest Preserve District of Kane County Wildlife Biologist
	Signature: William Brase
	Printed Name: William Graser
	Date: 6 10/22
	B) the <u>obligations and responsibilities</u> of each of the identified participants with schedules and deadlines for completion of activities included in the conservation plan and <u>a schedule for preparation of progress reports</u> to be provided to the IDNR;
	C) certification that each participant in the execution of the conservation plan has the <u>legal</u> <u>authority</u> to carry out their respective obligations and responsibilities under the conservation plan;
	D) <u>assurance of compliance</u> with all other federal, State and local regulations pertinent to the proposed action and to execution of the conservation plan;
	The Forest Preserve District of Kane County will secure all necessary permits and maintain compliance with all permit conditions and regulations.
	E) copies of any final <u>federal authorizations for a taking</u> already issued to the applicant, if any.
	CERTIFICATION: The Forest Preserve District of Kane County (District) hereby certifies that it has the authority and funding to complete the project and to address the issues proposed in this Incidental Take Conservation Plan for the state-listed Blanding's Turtle. The District is in charge of the project and will assure that all applicable state, federal, and local laws will be adhered to during the completion of the project.
^	in a Mey DATE: 4/8/22

December 2016

Natural Resources, Office of Resource Conservation, Division of Natural Heritage, One Natural Resources Way, Springfield, IL, 62702 OR <u>DNR.ITAcoordinator@illinois.gov</u>

PLEASE SUBMIT TO: Incidental Take Authorization Coordinator, Illinois Department of

Figure 1. Pingree Grove Forest Preserve Location Map

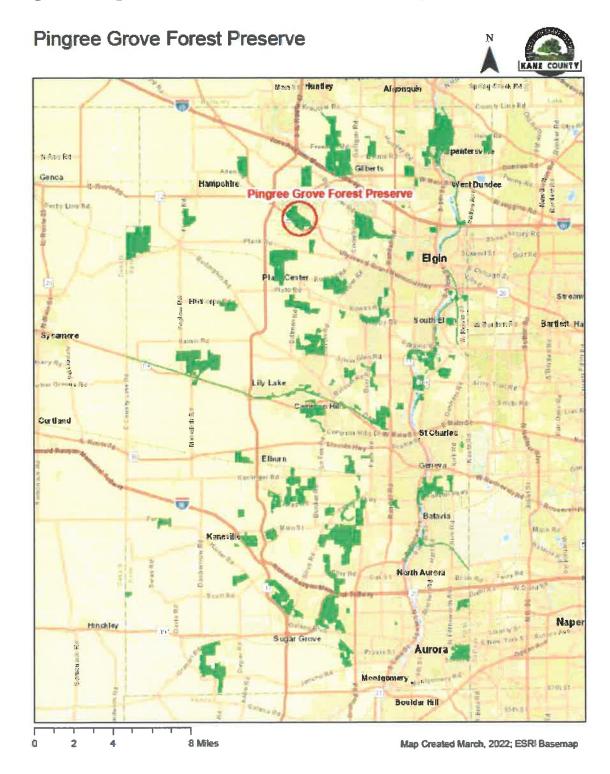
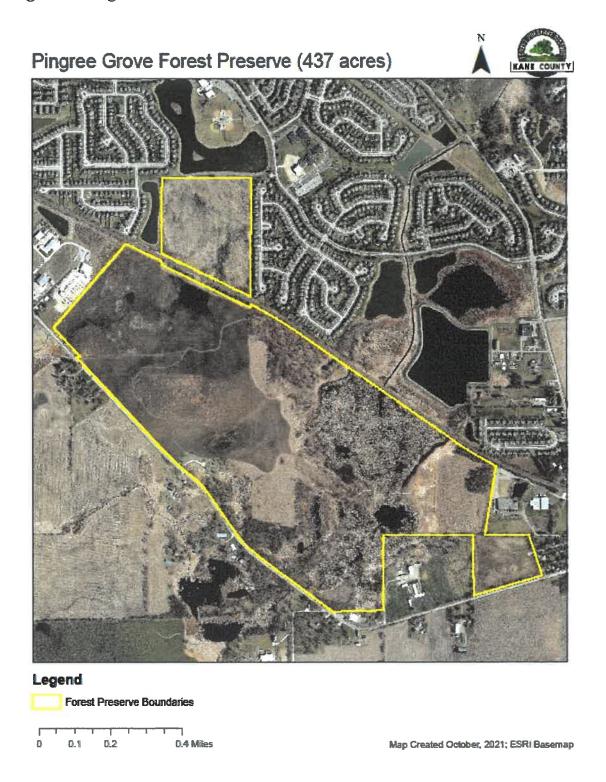


Figure 2. Pingree Grove Forest Preserve



#### APPENDIX A

Pingree Grove Wetland Bird Habitat Enhancement Project Plans

# Pingree Grove Forest Preserve Hydrologic Restoration Project

The information shown on this drawing concerning type betabook of independent of beta organizated to be accurate or all includes. The Confluence is responsible meding his own determinations as to the types and loss of undergranded different amy be necessary to avoid of media of history.

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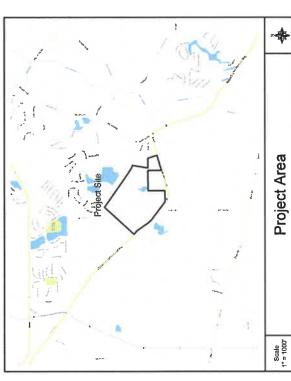
Forest Preserve District of Kane County Ben Haberthur 1996 S. Kirk Rd. Ste. 320 Geneva, IL 60134 Office (630) 208-8661

## Engineer:

Hey and Associates, Inc. 26575 West Commerce Drive, Suite 601 Volo, Illinois 60073
Office (847) 740-0888
Fax (847) 740-2888

# Benchmark:

Benchmark disc set in the top of the northwest end of the northwest concerbe treatwell of a 2-foot by 8-foot concrete culvert under the highway. Elevation = 909.79 (NAVD 1989) As established by Coast and Geodetic Survey 1989.



Sheet Index: (Sheet #/Drawing #/Title)

Base Survey Information provided by

Kane County GIS Hey and Associates, Inc.

This document shall not be considered a valid lac submittal unless it bears an original seal and alguatura

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Forest Preserve District of Kane County

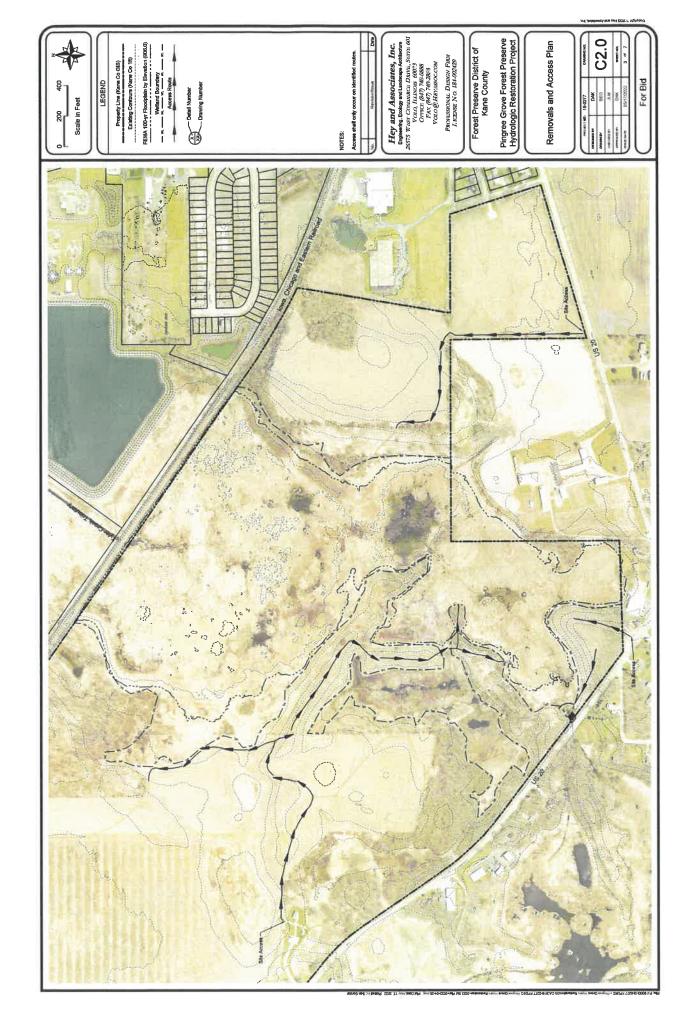
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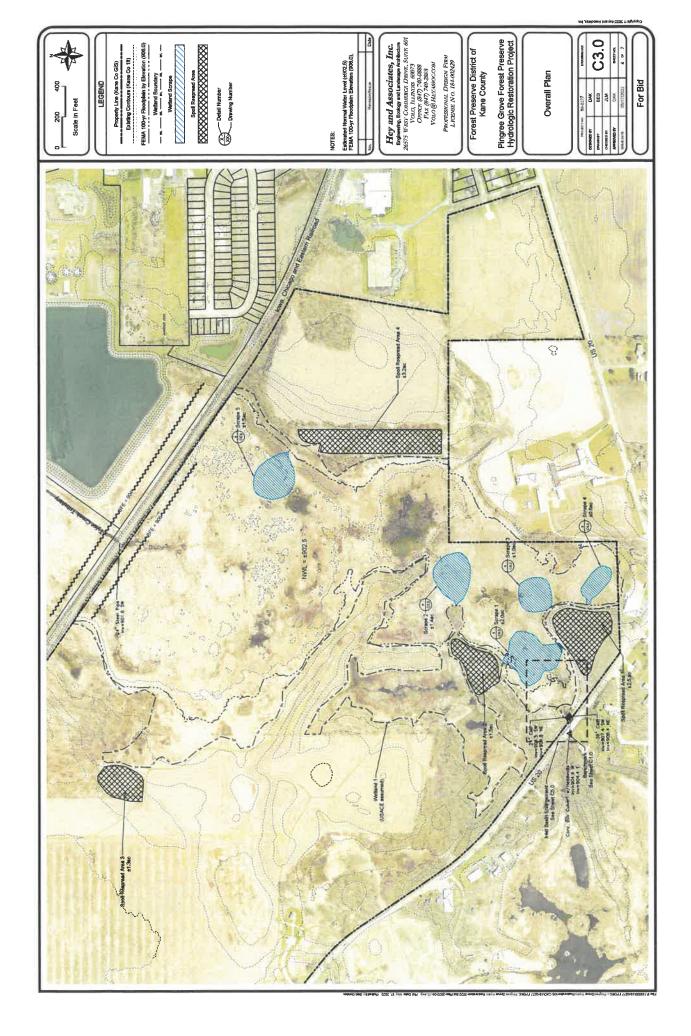
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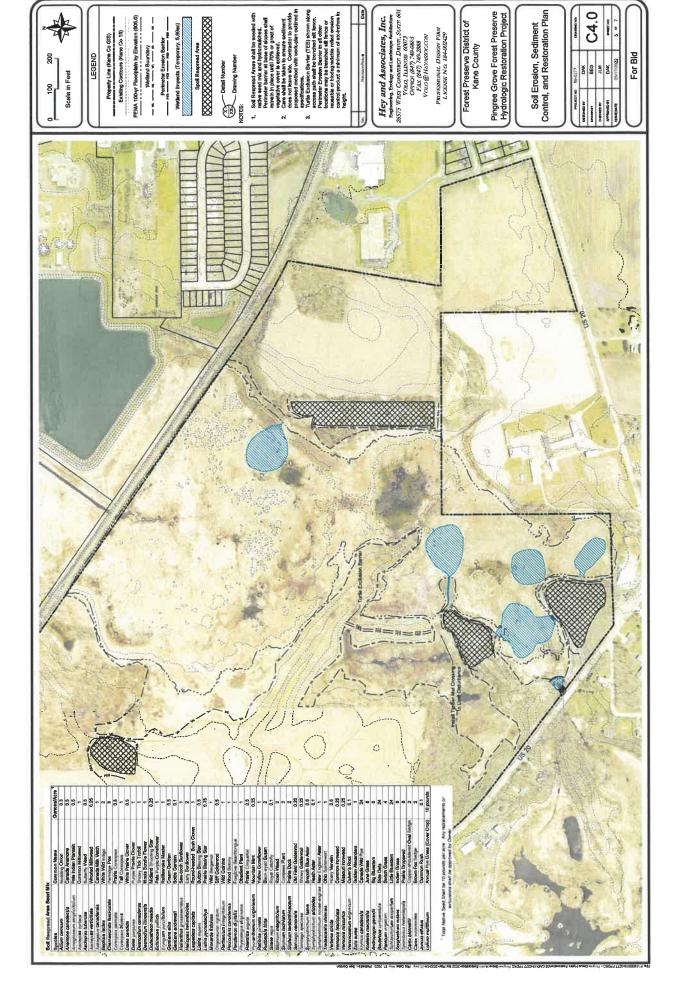
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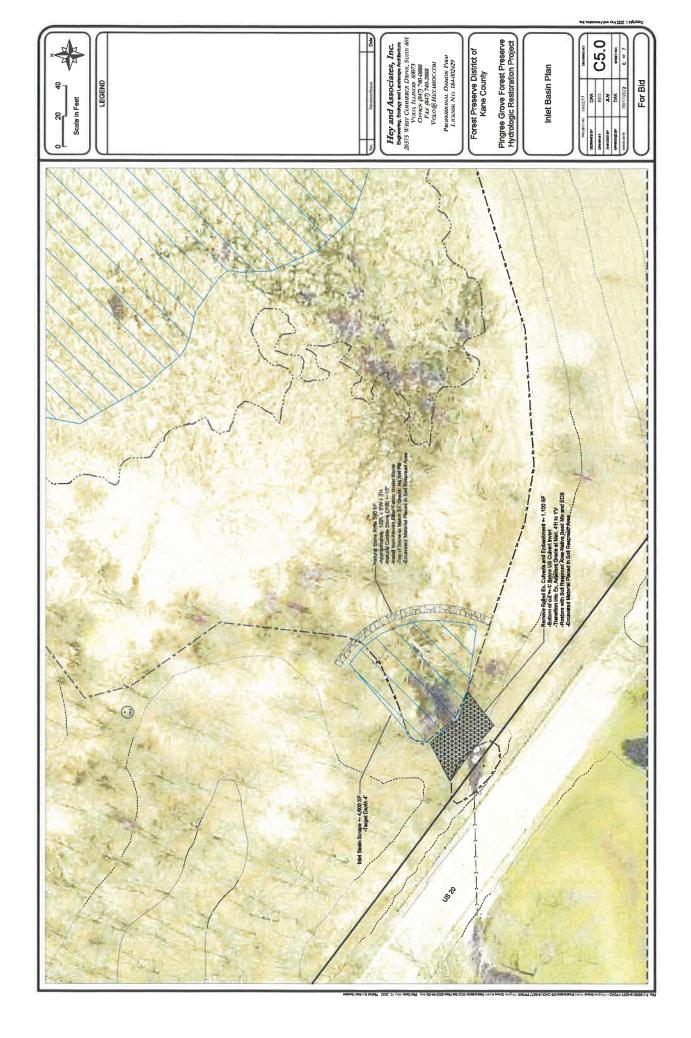
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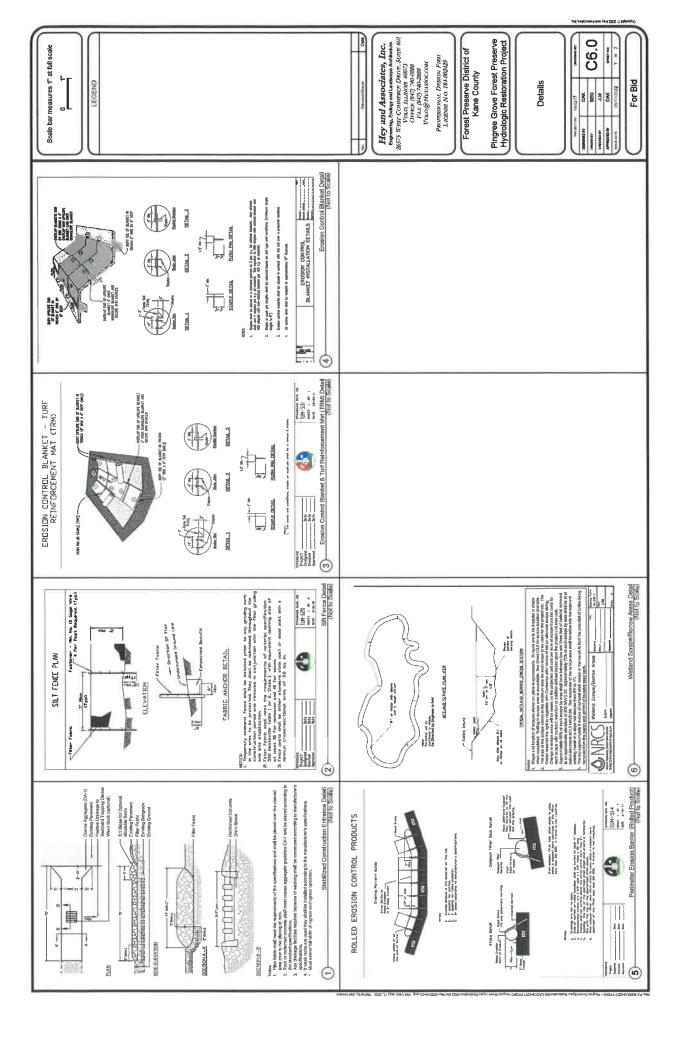
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VOLO (@ HEINSPACCOAN Pingree Grave Forest Preserve Hydrologic Restoration Project C1.1 Hey and Associates, Inc. Forest Preserve District of PROTESSIONAL DESIGN FIRM LICENSE NO. 18+002429 General Notes Kane County LEGEND For Bid DAK DAK 4. At spoil respond a uses a specific location that he identified for placement of material removed from the material area, it attentified the placed in this bouldon sparin or removed. Respond area with the continend to be too of unifies and allocation minimal variety of expensed areas to that of expensed its too the expensed areas and the expensed areas and the expensed areas are allocation of expensed areas depth and be supproximately hordered. All work areas shall be visually inspected prior to commencing work each day and the Owner shall be notified if any turties are discovered. Extreme care shall be taken during construction to protect on-site blots, in particula Bandings Turties. Equipment operators shall be disgent in attempt to identify furtible before any issues. Special attention is drawn to the project specifications which contain addition information on these issues critical to the aucoessful execution of the project. MATERIAL HANDLING AND TURTLE PROTECTION NOTES All equipment shall be stored in upland areas i Roodplain. Confractor shall provide proposed project plan for work within marsh area to Owner and KDSWCD prior to commencement of work. Soil disturbance shall be conducted in such a manner as to minimize arrosion. Soil establization measures shall consider the time of year, site conditions and the use of ferrepointy or permanent measures. The erceion control measures indicated on the plans are the maintum requirements. Additional measures may be required as directed by the engineer or All storm sewer facilities that are or will be functioning during construction shall be protected, filtered or otherwise treated to remove sediment. Stockpiles of tool and other building materials to remain in place more than three (i.e., 03 days sub-to-furnation with exercise and sediment control measures (i.e., perimetric resolute barriers, Stockpiles to remain in place for 30 days or more shall accure inmportant seeding. 17. It is the maponebility of the Owere and/or General Contractor to inform any hospical contractor to him and the State of the maponebility of an his patients of the his patients of the his operation of the history for the patients of the history for th Any areas along the blenkfield access paths disturbed training construction shall be restored to a pre-project condition. Specifically IDOT class 1 furl Grass and Eresho Control Banker (NAG \$75BM or approved equal) on elopes greater than 4H to 1V. Temporary soil stabilization shall be applied to distributed areas within 7 calenda composite or which of age of the composition of the compositi All temporary ercuion and sodiment control messures shall be removed within 5 days after fittal site statisfaction is achieved or after temporary measures are no begon readed. Trapped sediment and other disturbed soil areas shall be permanently stabilized. All erosion control measures must be inspected weekly and after each 0.5° rath event. The contractor is responsible for installation of any additional erosion control researces necessary to prevent erosion and sedimentation as determined by the recognized. Any sidestope disturbance due to excavation activities will require the installation enosion control blanket. All amporary and permanent enosion control measures must be maintained and repaired as are ended to The operational for impedion or repair during construction. The owner vill be responsible if erosion control is required affect the confractor. The owner vill be responsible if erosion control is required affect the confractor has completed the project. During dewatering operations, vater will be pumped into sediment basins or silt traps. Dewatering directly into field tiles or stormwater structures prohibited All adjacent streets must be kept clear of debris, inspected daily, and cleane when necessary. Soil erosion and sediment control features shall be constructed prior to the commencement of upland disturbance. The Kame-DuPage Soil and Water Conservation District (KOSWCD) must be notified one week prior to the pre-construction conference, one-week prior to commencement of land disturbing activities, and one week prior to the limal inspection. A copy of the approved erosion and sediment control plan shall be maintain the site at all times. 13. Prior to commencing land-disturbing activities in areas other than indicated or thate a final prior that of the commence of development entire for development as under the comment of the COSWCD. SEDIMENTATION AND EROSION CONTROL NOTES 1. The Continuotes shall be required to make armagaments for the proper bracing, and proper practices and organized and design and their tempers problem, and proper pr 16. Before acceptance by the Owner and final payment, all work ahalf be inspected and approved by the Contradiant and Owner. Final payments shall be made after all of the Contractor's work has been approved and accepted. 23. The Consultant and Owner are not responsible for the construction means, methods techniques, sequencies or procedures, time of performance, programs of for any safety precudence and the Contractor. The Contractor is solely responsible to served into the law to the in-contractor and expendition of his work in accordance with the contract countract and special circuits. The Contrades chell define root, makelin and remove all digns, tentrades, flagmen and the contrades chell define, service or regulations are not be necessary for the purpose of regulating, serving or golding lartin. Pleanment and maintenance of all haffle control diverse haffle but accordance with the application part of Article 100 of the Standard Specifications. In Tall Commol Items, If existing utility lines of any nature are encountered which conflict in location with new construction, the Contrador shall notify the Consultant and Owner so that the conflict may be resolved. 11. Prior to submitting his bid, the Contractor shall call the attention of the Consultant to any material or equipment he deems insdequate and to any item of work omitted. 5. All foll irons damaged or removed during construction of this project shall be replaced by the Surveyor and said cost of replacement shall be paid by the Contractor. 22. Special alteration is drawn to the lact that Antide 105.05 of the standard or the specialises in Confidence for have a competini appointment on the operation of the confidence of the competini applications are considered in femicial improvementation to the other and specialisms, without the confidence of the conf 14. The Contractor shall provide a written work schedule, and shall update said schedule as required. A minimum thenty-four (24) hour notice shall be given for any item that requires approved or inspection. 7. The Contenders shall be responsible for the protection of all private and public villates even flossiple from the solution and to address on the plant. Any slidity that is demayed closing construction shall be required or replaced to the authorised or the Consultant and Monte by the Contraction the One appears. 5. The Contractor shalf exemine all plans and specifications, wisk the site of the work and finding the light by the volk involved, general and both socil conditions, all Federal. State and both laws, oditances, rules and regulations and all other pertine items which may affect the cost and time of completion of this project below. 1. The "Standard Specifications for Road and Bridge Construction", State of Illinois, Department of Transportation, adopted January 2, 2022 and revisions thereto, and these improvement plans and delete shall govern applicable portions of this project The Contractor will have in his possession on the job site a copy of the plans and specifications during construction. 19. Ae-bull drawings shall be propared by the Contractor and submitted to the Consulant section as the developments are compétind. Any change in length location or algoment shall be shown in red. Final payments will not be issued until selfstedory as-bull plants time them unbmitted. Location of utilities shown on plans are approximate only, and are not necessarily
complete. Contractor shall make his own investigations as to location of all existin
underground structures, cables and pipe lines. 10, Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured and paid for by the Contrador. 12. The Continator shall restore any area disturbed outside the construction sile to a condition equal to or belief than its original use. This shall include finish grading, establishment of a vegetative cover (exeding or sod), general chearup and pervent. The Contractor is responsible for coordinating any required inspections with the owner, consultant, and other agencies. 5. The Contractor shall notify J.U.L.I.E. (1-800-892-0123) at least ten days prior to construction so that each utility company can state out any underground improvements that they may have which might shartner with the proposed construction. 18. If any approved equal items are required the Contractor shall contact the Cons for approval. 13. The Confractor shall be responsible for providing safe and healthful working conditions throughout the construction of the proposed improvements. All work and materials shall be in accordance with code requirements. SENERAL NOTES AND CONSTRUCTION SPECIFICATIONS 20. All elevations are based on U.S.G.S. Dalum.











#### APPENDIX B

Example Education and Outreach Materials

# FOREST PRESERVE DISTRICT OF KANE COUNTY PRECONSTRUCTION MEETING Blanding's Turtle Information & Instructions

According to the Illinois Department of Natural Resources, Blanding's Turtles have been known to occur in this area. Blanding's Turtles are classified in Illinois as an endangered species. Under the Illinois Endangered Species Protection Act (520 ILCS 10/), it is illegal to disturb, harass, injure, capture, or kill Blanding's Turtles or their nests.

They are known to inhabit in and near pond and wetland habitats, but they can also be encountered on land far away from water, as they forage for food or travel to nests. Adult Blanding's Turtles are generally 8-10" long and weigh 2-3 pounds. They have a long neck and a bight yellow throat or underside of their neck.

Young Blanding's Turtles also may be encountered, especially in August and September, when new hatchlings typically emerge from their nests. Juveniles are paler in color than adults, but their spots and markings are more conspicuous.

The yellow underside of the neck is a key feature to look for.







# CAUTION: BLANDING'S TURTLES MAY BE PRESENT



#### Blanding's Turtle (Emydoidea blandingii) Illinois Endangered Species



The carapace (shell) of a Blanding's Turtle is highly domed and black with yellow flecks. The body is also black with yellow flecks, while the underside of the neck and chin is bright yellow. Hatchlings are not as vividly marked. Their shell is brown or grey, and is not high-domed as in the adults. The legs are usually unmarked, but the head does have some yellow markings and the throat is pale yellow.



#### OTHER COMMON TURTLE SPECIES THAT MAY BE ENCOUNTERED:





The common snapping turtle is a large turtle, ranging in size from 8-14" long, but sometimes as much as 19 inches. Their average weight is 10-35 pounds. Their color varies from tan to dark brown, to almost black in some specimens. Common snapping turtles have long tails and necks, and rough shells with three rows of carapace keels (shell ridges).

#### Painted Turtle (Chrysemys picta)

Painted turtles are relatively small turtles (5–8"), colorful with dark shells and yellow stripes on the legs, and blotches/spots on their heads. The edges of the shell are smooth, and may have red or yellow patterns on the edge.





In the event that a Blanding's turtle is found on site,

#### ALL SITE WORK IN THE VICINITY MUST STOP IMMEDIATELY

and the Forest Preserve District contact must be notified:

Bill Graser, Wildlife Biologist
Forest Preserve District of Kane County
(630)301-2228

Alternate Contact: Illinois Department of Natural Resources (815) 675-2386 ext. 216