

LAKE COUNTY FOREST PRESERVES www.LCFPD.org

Preservation, Restoration, Education and Recreation

DATE: March 2, 2015

MEMO TO: Bonnie Thomson Carter, Chair Planning and Restoration Committee

> S. Michael Rummel, Chair Finance and Administrative Committee

FROM: James L. Anderson, Director Natural Resources Department

SUBJECT: Hydrologic Analysis and Design Services for Southern Des Plaines River Forest Preserves

<u>RECOMMENDATION</u>: Approve a Resolution awarding a Contract for hydrologic analysis and design services at Southern Des Plaines River Forest Preserves to Hey and Associates, Inc. of Volo, Illinois, in the Contract Price of \$61,070.00.

BACKGROUND: In the winter of 2012-2013 the Lake County Forest Preserve District (District) began working on the Southern Des Plaines River Preserves Habitat Restoration Project (Oak Woodland Restoration Project). Much of the work to date has focused on clearing exotic and invasive woody species to improve habitat and light transmission to ground layer vegetation. This project will focus on another aspect of habitat restoration, the hydrology of northern flatwoods communities. Work will take place at Grainger Woods Conservation Preserve and Captain Daniel Wright Woods Forest Preserve (including the portion known as Lloyd's Woods) as these preserves are all linked by existing agricultural drain tiles, road and trail culverts, and natural surface/ground water connections.

Hey and Associates, Inc. will provide hydrologic analysis and design services to the District to aid in restoration activities, including land surveying, wetland delineation, analysis of existing conditions, design for wetland restoration (removal of agricultural drain tile, installation of water control structures, coordination of work across property boundaries, hydraulic studies for potential surface water flows). This project will expand the scope of previous projects to further manage and enhance natural habitats within the Southern Des Plaines River Preserves Habitat Restoration Project.

Staff recommends that Hey and Associates, Inc. of Volo, Illinois be awarded the contract as they are a professional service contractor skilled in this type of project. Work is anticipated to begin in March 2015 and be completed by December 31, 2015.

<u>REASON FOR RECOMMENDATION</u>: Committee recommendation and Board approval are required in accordance with District policy.

REVIEW BY OTHERS: Chief Operations Officer, Director of Finance, Legal Counsel

<u>FINANCIAL DATA</u>: This project was approved as part of the adopted FY 2014/2015 Capital Improvement Plan for Southern Des Plaines River Habitat Restoration in the amount of \$686,718. This portion of the project was estimated at \$60,000.00. The actual cost of \$61,070.00 will be charged to Southern Des Plaines CIP Project (201041000-803200-65004).

PRESENTER: James L. Anderson

| STATE OF ILLINOIS |) |
|-------------------|---|
| COUNTY OF LAKE |) |

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BOARD OF COMMISSIONERS LAKE COUNTY FOREST PRESERVE DISTRICT REGULAR MARCH MEETING MARCH 10, 2015

MADAM PRESIDENT AND MEMBERS OF THE BOARD OF COMMISSIONERS:

Your **PLANNING AND RESTORATION COMMITTEE** AND **FINANCE AND ADMINISTRATIVE COMMITTEE** present herewith "A Resolution Awarding a Contract to Hey and Associates, Inc., for Hydrologic Analysis and Design Services at Southern Des Plaines River Forest Preserves," and request its adoption.

| PLANNING AND RESTORATION COMMITTEE: | YEA | NAY | FINANCE AND ADMINISTRATIVE COMMITTEE: | YEA | NAY |
|--|-----|-----|--|-----|-----|
| | | | | | |
| Bonnie Thomson Carter, Chair | | | S. Michael Rummel, Chair | | |
| Nick Sauer, Vice-Chair | _ | | Linda Pedersen, Vice-Chair | _ | |
| Nick Sauci, Vice-Chair | | | Linda Federsen, vice-chan | | |
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| Craig Taylor | _ | | | | |
| Tom Weber | _ | | | | |
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LAKE COUNTY FOREST PRESERVE DISTRICT LAKE COUNTY, ILLINOIS

A RESOLUTION AWARDING A CONTRACT TO HEY AND ASSOCIATES, INC., FOR HYDROLOGIC ANALYSIS AND DESIGN SERVICES AT SOUTHERN DES PLAINES RIVER FOREST PRESERVES

WHEREAS, the Lake County Forest Preserve District (the "District") desires to purchase hydrologic analysis and design services at the Southern Des Plaines River Forest Preserves (the "Services"); and

WHEREAS, the Director of Natural Resources and the Purchasing Manager have determined that the Services require personal confidence; and

WHEREAS, the Purchasing Manager has solicited a proposal for the Services; and

WHEREAS, the District's staff, the Purchasing Manager, the Director of Natural Resources, the Planning and Restoration Committee, and the Finance and Administrative Committee have reviewed the proposals and recommend that the Board of Commissioners (i) find that the proposal submitted by Hey and Associates, Inc., be determined to be the proposal that is most advantageous to the District; and (ii) award a contract for the Services to Hey and Associates, Inc., (the "Contract") in the amount of \$61,070.00 (the "Contract Price"); and

WHEREAS, the Board of Commissioners hereby finds that the proposal for the Services submitted by Hey and Associates, Inc., is the proposal that is most advantageous to the District, and that the Contract Price is fair and reasonable; and

WHEREAS, the District has a satisfactory relationship with Hey and Associates, Inc., for hydrologic analysis and design services;

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Lake County Forest Preserve District, Lake County, Illinois THAT:

Section 1. Recitals. The recitals set forth above are incorporated as a part of this Resolution by this reference.

<u>Section 2</u>. <u>Award of Contract</u>. The Contract for the Services in the amount of the Contract Price, in substantially the form attached hereto, is hereby awarded to Hey and Associates, Inc.

<u>Section 3</u>. <u>Execution of Contract</u>. The Executive Director of the District is hereby authorized and directed to execute the Contract for the Services in the amount of the Contract Price.

<u>Section 4</u>. <u>Payments</u>. The Treasurer shall make payments under the Contract only pursuant to and in accordance with the Contract terms.

<u>Section 5</u>. <u>Effective Date</u>. This Resolution shall be in full force and effect from and after its passage and approval in the manner provided by law.

PASSED this _____ day of _____ 2015 AYES: NAYS: APPROVED this _____ day of _____ 2015

ATTEST:

Ann B. Maine, President Lake County Forest Preserve District

Julie A. Gragnani, Secretary Lake County Forest Preserve District

Exhibit



CONTRACT BETWEEN

LAKE COUNTY FOREST PRESERVE DISTRICT

AND

HEY AND ASSOCIATES, INC.

FOR THE

HYDROLOGIC ANALYSIS AND DESIGN SERVICES

AT

SOUTHERN DES PLAINES RIVER FOREST PRESERVES

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HYDROLOGIC ANALYSIS AND DESIGN SERVICES SOUTHERN DES PLAINES RIVER FOREST PRESERVES PROJECT NO: 65004-120-777

| 7.13 | Time | 11 |
|------|------------------|----|
| | Severability | |
| | Entire Agreement | |
| | Amendments | |
| | | |

ATTACHMENT A – SUPPLEMENTAL SCHEDULE OF CONTRACT TERMS

ATTACHMENT B – CONSULTANT'S SCOPE OF WORK

ATTACHMENT C – KEY PERSONNEL

CONTRACT BETWEEN LAKE COUNTY FOREST PRESERVE DISTRICT AND HEY AND ASSOCIATES, INC. FOR THE HYDROLIGIC ANALYSIS AND DESIGN SERVICES SOUTHERN DES PLAINES RIVER FOREST PRESERVES

In consideration of the agreements set forth below, the Lake County Forest Preserve District, a body corporate and politic and unit of local government organized and existing under the Downstate Forest Preserve District Act, 70 ILCS 805/.001 et seq., 1899 West Winchester Road, Libertyville, Illinois 60048, ("Owner") and Hey and Associates, Inc. a(n) Illinois Corporation, 26575 West Commerce Drive, Suite 601, Volo, Illinois 60073, ("Consultant") make this Contract as of March 24, 2015 and hereby agree as follows:

ARTICLE I - THE SERVICES

1.1 Performance of the Services

Consultant shall, at its sole cost and expense, provide, perform, and complete all of the following professional services, all of which is referred to in this Agreement as the "Services":

A. Professional Services. Provide, perform, and complete, in the manner described and specified in this Contract, all professional services necessary to accomplish the "Project," as defined in Attachment A, in accordance with the Scope of Services attached hereto as Attachment B.

B. Approvals. Procure and furnish all approvals and authorizations specified in Attachment A.

C. Insurance. Procure and furnish all required certificates and policies of insurance specified in Attachment A.

D. Standard of Performance. Provide, perform, and complete all of the foregoing in full compliance with this Contract, in a professional manner, and in accordance with the standards of professional practice, care, and diligence in existence at the time of performance of the Services applicable to recognized and qualified consulting firms in the Chicago Metropolitan Area (the "Standard of Performance").

1.2 Commencement and Completion Dates

Consultant shall commence the Services not later than the "Commencement Date" set forth in Attachment A, and shall diligently and continuously prosecute the Services at such a rate as will allow the Services to be fully provided, performed and completed in full compliance with this Contract not later than the "Completion Date" or, if the Services are to be performed in separate phases, the "Completion Dates," set forth in Attachment A. The time of commencement, rate of progress, and time of completion are referred to in this Contract as the "Contract Time."

1.3 Required Submittals

A. Submittals Required. Consultant shall submit to Owner all reports, documents, data, and information required to be submitted by Consultant under this Contract ("Required Submittals").

B. Time of Submission and Owner's Review. All Required Submittals shall be provided to Owner no later than the time, if any, specified in Attachment A, or otherwise in this Contract. If no time for submission is specified for any Required Submittal, then that Submittal shall be submitted within a reasonable time in light of its purpose and, in all events, in sufficient time, in Owner's opinion, to permit Owner to review that Submittal same prior to the commencement of any part of the Services to which that Submittal may relate. Owner shall have the right to require such corrections as may be necessary to make any Required Submittal conform to this Contract. No Services related to any Required Submittal shall be performed by Consultant until Owner has completed review of such Required Submittal shall not relieve Consultant of the entire responsibility for the performance of the Services in full compliance with, and as required by or pursuant to this Contract, and shall not be regarded as any assumption of risk or liability by Owner. The Consultant shall not be held liable for claims of delay caused by the Owner's failure to timely review and approve any Required Submittal.

C. Responsibility for Delay. Consultant shall be responsible for any delay in the Services resulting from Consultant's, or its Sub-consultant's, delay in providing Required Submittals conforming to this Contract.

1.4 Review and Incorporation of Contract Provisions

Consultant represents and declares that it has carefully reviewed, and fully understands, this Contract, including all of its Attachments, all of which are by this reference incorporated into and made a part of this Contract.

1.5 Financial and Technical Ability to Perform

Consultant represents and declares that it is financially solvent, and has the financial resources necessary, and has sufficient experience and competent, and has the necessary capital, facilities, organization, and staff necessary to provide, perform, and complete the Services in full compliance with, and as required by or pursuant to, this Contract.

1.6 Time

Consultant represents and declares that the Contract Time is sufficient time to permit completion of the Services in full compliance with, and as required by or pursuant to, this Contract for the Contract Price.

1.7 Consultant's Personnel and Sub-Consultants

A. Consultant's Personnel. Consultant shall provide all personnel necessary to complete the Services, including without limitation, the "Key Project Personnel" identified in Attachment C. Consultant shall provide to Owner telephone numbers at which the Key Personnel can be reached on a 24-hour basis. Consultant and Owner may, by mutual agreement, make changes and additions to the designations of Key Project Personnel. Consultant shall have no claim for a Change Order, for compensation in excess of the Contract Price, or for a delay or extension of the Contract Time as a result of any such termination, reassignment, resignation, or substitution of Key Project Personnel.

B. Approval and Use of Sub-Consultants. Consultant shall perform the Services with its own personnel and under the management, supervision, and control of its own organization unless otherwise approved by Owner in writing. All sub-consultants and subcontracts used by Consultant shall be acceptable to, and approved in advance by, Owner. Owner's approval of any sub-consultant or subcontract shall not relieve Consultant of full responsibility and liability for the provision, performance, and completion of the Services in full compliance with, and as required by or pursuant to, this Contract. All Services performed under any subcontract shall be subject to all of the provisions of this Contract in the same manner as if performed by employees of Consultant. Every reference in this Contract to "Consultant" shall be deemed also to refer to all sub-consultants of Consultant. Every subcontract shall include a provision binding the sub-consultant to all provisions of this Contract.

C. Removal of Personnel and Sub-Consultants. If any personnel or sub-consultant fails to perform the part of the Services undertaken by it in compliance with this Contract or in a manner reasonably satisfactory to Owner, Consultant, immediately upon notice from Owner, shall remove and replace such personnel or sub-consultant. Consultant shall have no claim for damages, for compensation in excess of the Contract Price, or for a delay or extension of the Contract Time as a result of any such removal or replacement.

1.8 Owner's Responsibilities

Owner shall, at its sole cost and expense: (i) designate in writing a person with authority to act as Owner's representative and on Owner's behalf with respect to the Services except those matters that may require approval of Owner's Board of Commissioners; (ii) provide to Consultant all criteria and full information as to Owner's requirements for the Project or work to which the Services relate, including Owner's objectives and constraints, schedule, space, capacity and performance requirements, and budgetary limitations relevant to the Project; (iii) provide to Consultant all existing studies, reports, and other available data relevant to the Project; (iv) arrange for access to and make all provisions for Consultant to enter upon public and private property as reasonably required for Consultant to perform the Services; (v) provide surveys describing physical characteristics, legal limitations, and utility locations for the Project and the services of geotechnical engineers or other consultants when such services are reasonably requested by Consultant and are necessary for the performance of the Services, and are not already provided for in this Contract; (vi) provide structural, mechanical, chemical, air and water pollution tests, test for hazardous materials, and other laboratory and environmental tests, inspections, and reports required by law to be provided by Owner in connection with the Project; (vii) review Required Submittals and other reports, documents, data, and information presented by Consultant as appropriate; (viii) except as otherwise provided in Attachment A, provide approvals from all governmental authorities having jurisdiction over the Project when such services are reasonably requested by Consultant; (ix) attend Project related meetings; and (x) give prompt written notice to Consultant whenever Owner observes or otherwise becomes aware of any development that affects the scope or timing of the Services, provided, however, that failure to give such notice shall not relieve Consultant of any of its responsibilities under this Contract.

1.9 Owner's Right to Terminate or Suspend Services for Convenience

A. Termination or Suspension for Convenience. Owner shall have the right, at any time and for its convenience, to terminate or suspend the Services in whole or in part at any time by written notice to Consultant. Every such notice shall state the extent and effective date of such termination or suspension. On such effective date, Consultant shall, as and to the extent directed, stop Services under this Contract, cease all placement of further orders or subcontracts, terminate or suspend Services under existing orders and subcontracts, and cancel any outstanding orders or subcontracts that may be canceled. B. Payment for Completed Services. In the event of any termination pursuant to Subsection 1.9A above, Owner shall pay Consultant (i) such direct costs, including overhead, as Consultant shall have paid or incurred for all Services done in compliance with, and as required by or pursuant to, this Contract up to the effective date of termination; and (ii) such other costs pertaining to the Services, exclusive of overhead and profit, as Consultant may have reasonably and necessarily incurred as the result of such termination. Any such payment shall be offset by any prior payment or payments and shall be subject to Owner's rights, if any, to withhold and deduct as provided in this Contract.

ARTICLE II - CHANGES AND DELAYS

2.1 Changes

Owner shall have the right, by written order executed by Owner, to make changes to the timing or scope of the Services to be provided pursuant to this Contract (a "Services Change Order"). When a Change Order causes an increase or decrease in the amount of the Services, an equitable adjustment in the Contract Price or Contract Time may be made. No decrease in the amount of the Services caused by any Change Order shall entitle Consultant to make any claim for damages, anticipated profits, or other compensation. Consultant shall not undertake any change in the Services without receipt of an executed Change Order from Owner.

2.2 Delays

For any delay resulting from a cause that Consultant could not reasonably avoid or control, Consultant, upon timely written application, shall be entitled to issuance of a Change Order providing for an extension of the Contract Time for a period of time equal to the delay resulting from such unavoidable cause. No extension of the Contract Time shall be allowed for any other delay in completion of the Services.

2.3 No Constructive Change Orders

No claims for equitable adjustments in the Contract Price or Contract Time shall be made or allowed unless embodied in a Change Order. If Owner fails to issue a Change Order including or fully including an equitable adjustment in the Contract Price or Contract Time to which Consultant claims it is entitled or, if Consultant believes that any requirement, direction, instruction, interpretation, determination or decision of Owner entitles Consultant to an equitable adjustment in the Contract Price or Contract Time that has not been included or fully included in a Change Order, then Consultant shall submit to Owner a written request for the issuance of or revision of a Change Order including the equitable adjustment or the additional equitable adjustment in the Contract Price or Contract Time that Consultant claims has not been included or fully included in a Change Order. Such request shall be submitted before Consultant proceeds with any Work for which Consultant claims an equitable adjustment is due and shall, in all events, be submitted no later than two (2) business days after receipts of such Change Order or receipt of notice of such requirement, direction instruction, interpretation, determination or decision. Notwithstanding the submission of any such request, Consultant shall, unless otherwise directed by Owner within two (2) business days after receipt by Owner of such request, proceed without delay to perform the Work in compliance with the Change Order or as required, directed, instructed, interpreted or decided by Owner, and shall, pending a final resolution of the issue, keep a daily record of such Work. Unless Consultant submits such a request within two (2) business days after receipt of such Change Order or receipt of notice of such requirement, direction, instruction, interpretation, determination or decision, Consultant shall be conclusively deemed (i) to have agreed that such Change Order, requirement, direction, instruction, interpretation, determination or decision does not entitle Consultant to an equitable adjustment in the Contract Price or Contract Time; and (ii) to have waived all claims based on such Change Order, requirement, direction, instruction, interpretation, determination or decision.

ARTICLE III - CONSULTANT'S RESPONSIBILITY FOR DEFECTIVE SERVICES

3.1 Representation of Compliance

A. Scope of Representation. Consultant shall perform all Services in conformance with this Contract, free from defects and flaws in design, and in accordance with the Standard of Performance (the "Representation of Compliance").

B. Opinions of Cost. It is recognized that neither Consultant nor Owner has control over the costs of labor, material, equipment or services furnished by others or over competitive bidding, market or negotiating conditions, or construction contractors' methods of determining their prices. Accordingly, any opinions of probable Project costs or construction costs provided for herein are estimates only, made on the basis of Consultant's experience and qualifications and represent Consultant's best judgment as an experienced and qualified professional, familiar with the industry. Consultant does not guarantee that proposals, bids or actual Project costs or construction costs will not vary from opinions of probable cost prepared by Consultant.

3.2 Corrections

Consultant shall be responsible for the quality, technical accuracy, completeness and coordination of all Services under this Contract. Consultant shall correct and remedy all of its errors, omissions, and negligent acts related to the Services, promptly and without charge.

3.3 Risk of Loss

The Services shall be provided, performed, and completed at the risk and cost of Consultant. Consultant shall be responsible for any and all damages to property or persons as a result of Consultant's errors, omissions, or negligent acts and for any losses or costs to repair or remedy any work undertaken by Owner based on the Services as a result of any such errors, omissions, or negligent acts. Notwithstanding any other provision of this Contract, Consultant's obligations under this Section 3.3 shall exist without regard to, and shall not be construed to be waived by, the availability or unavailability of any insurance, either of Owner or Consultant, to indemnify, hold harmless, or reimburse Consultant for such damages, losses, or costs.

ARTICLE IV - INSURANCE; INDEMNIFICATION

4.1 Insurance

Contemporaneous with Consultant's execution of this Contract, Consultant shall provide certificates and policies of insurance evidencing at least the minimum insurance coverage and limits set forth in Attachment A. For good cause shown, Owner may extend the time for submission of the required policies of insurance upon such terms, and with such assurances of complete and prompt performance, as Owner may impose in the exercise of its sole discretion. Such policies shall be in a form reasonably acceptable to Owner and from companies with a general rating of A-, and a financial size category of Class V or better, in Best's Insurance Guide and otherwise reasonably acceptable to Owner. Such insurance shall provide that no change to or cancellation of any insurance, nor any reduction in limits or coverage or other modifications affecting this Agreement, shall become effective until the expiration of thirty (30) days after written notice thereof shall have been given by the insurance company to Owner. Consultant shall, at all times while providing corrective Services pursuant to Section 3.2 of this Contract, maintain and keep in force, at Consultant's expense, at least the minimum insurance coverage and limits set forth in Attachment A.

4.2 Indemnification

Consultant, without regard to the availability or unavailability of any insurance, either of Owner or Consultant, shall, to the fullest extent permitted by law, indemnify, save harmless, and reimburse Owner against any and all lawsuits, claims, demands, damages, liabilities, losses, and expenses, including reasonable attorneys' fees, that may arise or be alleged to have arisen out of or in connection with Consultant's negligent acts, errors, or omissions, except only to the extent caused by the negligence of Owner.

ARTICLE V - PAYMENT

5.1 Contract Price

Owner shall pay to Consultant, in accordance with and subject to the terms and conditions set forth in this Article V and Attachment A, and Consultant shall accept in full satisfaction for providing, performing, and completing the Services, the amount or amounts set forth in Attachment A ("Contract Price"), subject to any additions, deductions, or withholdings provided for in this Contract.

5.2 Taxes, Benefits and Royalties

The Contract Price includes applicable federal, state, and local taxes of every kind and nature applicable to the Services as well as all taxes, contributions, and premiums for unemployment insurance, old age or retirement benefits, pensions, annuities, or other similar benefits and all costs, royalties, and fees arising from the use on or the incorporation into the Services of patented equipment, materials, supplies, tools, appliances, devices, processes, or inventions. Consultant waives and releases any claim against Owner arising from the payment of any such tax, contribution, premium, benefit, cost, royalty, or fee.

5.3 **Progress Payments**

A. Payment in Installments. The Contract Price shall be paid in installments in the manner set forth in Attachment A ("Progress Payments").

B. Pay Requests. Consultant shall, as a condition precedent to its right to receive each Progress Payment, submit to Owner an invoice accompanied by such receipts, vouchers, and other documents as may be necessary to reasonably establish Consultant's prior payment for all labor, material, and other things covered by the invoice and the absence of any lien or other interest of any party in regard to the Services performed under this Contract. In addition to the foregoing, such invoice shall include (i) employee classifications, rates per hour, and hours worked by each classification, and, if the Services are to be performed in separate phases, for each phase; (ii) total amount billed in the current period and total amount billed to date, and, if the Services are to be performed in separate phases, for each phase; (iii) the Services are to be performed in separate phases, for each phase; (iii) the Services are to be performed in separate phases, for each phase; (iii) the Services are to be performed in separate phases, for each phase; (iii) the Services are to be performed in separate phases, for each phase; and (iv) Consultant's certification that all prior Progress Payments have been properly applied to the Services with respect to which they were paid. Owner may, by written notice to Consultant, designate a specific day of each month on or before which pay requests must be submitted.

5.4 Final Acceptance and Final Payment

The Services or, if the Services are to be performed in separate phases, each phase of the Services, shall be considered complete on the date of final written acceptance by Owner of the Services or each phase of the Services, as the case may be, which acceptance shall not be unreasonably withheld or delayed. The Services or each phase of the Services, as the case may be, shall be deemed accepted by Owner if not objected to in writing within sixty (60) days after submission by Consultant of the Services or such phase of Services for final acceptance and payment plus, if applicable, such additional time as may be considered reasonable for obtaining approval of governmental authorities having jurisdiction to approve the Services, or phase of Services, as the case may be. Within thirty (30) days after final acceptance, Owner shall pay to Consultant the balance of the Contract Price or, if the Services are to be performed in separate phases, the balance of that portion of the Contract Price with respect to such phase of the Services, after deducting therefrom charges, if any, against Consultant as provided for in this Contract ("Final Payment"). The acceptance by Consultant of Final Payment with respect to the Services or a particular phase of Services, as the case may be, shall operate as a full and complete release of Owner of and from any and all lawsuits, claims, or demands for further payment of any kind for the Services or, if the Services are performed in separate phases, for that phase of the Services.

5.5 Deductions

A. Owner's Right to Withhold. Notwithstanding any other provision of this Contract and without prejudice to any of Owner's other rights or remedies, Owner shall have the right at any time or times, whether before or after approval of any pay request, to deduct and withhold from any Progress or Final Payment that may be or become due under this Contract, such amount as may reasonably appear necessary to compensate Owner for any actual or prospective loss due to: (i) Services that are defective, damaged, flawed, unsuitable, nonconforming or incomplete; (ii) damage for which Consultant is liable under this contract; (iii) liens or claims of lien, regardless of merit; (iv) claims of Sub-consultants, suppliers or other persons, regardless of merit; (v) delay in the progress or completion of the Services; (vi) inability of Consultant to complete the Services; (vii) failure of Consultant to perform any of its obligations under this Contract; (ix) the cost to Owner including attorneys' fees and administrative costs of correcting any of the aforesaid matters or exercising any one or more of Owner's remedies set forth in Section 6.1 of this Contract.

B. Use of Withheld Funds. Owner shall be entitled to retain any and all amounts withheld pursuant to Subsection 5.5A above until Consultant shall have either performed the obligations in question or furnished security for such performance satisfactory to Owner. Owner shall be entitled to apply any money withheld or any other money due Consultant under this Contract to reimburse itself for any and all costs, expenses, losses, damages, liabilities, suits, judgments, awards, attorneys' fees and administrative expenses incurred, suffered or sustained by Owner and chargeable to Consultant under this Contract.

5.6 Accounting

Consultant shall keep accounts, books, and other records of all its billable charges and costs incurred in performing the Services in accordance with generally accepted accounting practices, consistently applied, and in such manner as to permit verification of all entries. Consultant shall make all such material available for inspection by Owner, at the office of Consultant during normal business hours during this Contract and for a period of three years after termination of this Contract. Copies of such material shall be furnished, at Owner's expense, upon request.

ARTICLE VI - REMEDIES

6.1 **Owner's Remedies**

If it should appear at any time prior to Final Payment that Consultant has failed or refused to prosecute, or has delayed in the prosecution of the Services with diligence at a rate that assures completion of the Services in full compliance with the requirements of this contract, or has attempted to assign this Contract or Consultant's rights under this contract, either in whole or in part, or has falsely made any representation or warranty in this Contract, or has otherwise failed, refused or delayed to perform or satisfy any other requirement of this Contract, or has falsely to pay its debts as they come due ("Event of Default"), and has failed to cure any such Event of Default within five (5) business days after Consultant's receipt of written notice of such Event of Default, Owner shall have the right, at its election and without prejudice to any other remedies provided by law or equity, to pursue any one or more of the following remedies:

- A. Owner may require Consultant, within such reasonable time as may be fixed by Owner, to complete or correct all or any part of the Services that are defective, damaged, flawed, unsuitable, nonconforming or incomplete to accelerate all or any part of the Services, and to take any or all other action necessary to bring Consultant and the Services into strict compliance with this Contract.
- B. Owner may accept the defective, damaged, flawed, unsuitable, nonconforming, incomplete or dilatory Services as part thereof and make an equitable reduction in the Contract Price.
- C. Owner may terminate this Contract without liability for further payment of amounts due or to become due under this Contract.
- D. Owner may withhold from any Progress Payment or Final Payment, whether or not previously approved, or may recover from Consultant any and all costs including attorneys' fees and administrative expenses incurred by Owner as the result of any Event of Default or as a result of actions taken by Owner in response to any Event of Default.
- E. Owner may recover any damages suffered by Owner.

6.2 Terminations and Suspensions by Owner Deemed for Convenience

Any termination or suspension by Owner of Consultant's rights under this Contract for an alleged Event of Default that is ultimately held unjustified shall automatically be deemed to be a termination or suspension for the convenience of Owner under Section 1.9 of this Contract.

ARTICLE VII - LEGAL RELATIONSHIPS AND REQUIREMENTS

7.1 Binding Effect

This Contract shall be binding on Owner and Consultant and on their respective heirs, executors, administrators, personal representatives, and permitted successors and assigns. Every reference in this Contract to a party shall also be deemed to be a reference to the authorized officers, employees, agents, and representatives of such party.

7.2 Relationship of the Parties

Consultant shall act as an independent contractor in providing and performing the Services. Nothing in, nor done pursuant to, this Contract shall be construed (i) to create the relationship of principal and agent, partners, or joint ventures between Owner and Consultant or (ii) to create any relationship between Owner and any sub-consultant of Consultant.

7.3 No Collusion

Consultant hereby represents and certifies that Consultant is not barred from contracting with a unit of state or local government as a result of (i) a delinquency in the payment of any tax administered by the Illinois Department of Revenue unless Consultant is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of the tax, as set forth in 65 ILCS 5/11-42.1-1; or (ii) a violation of either Section 33E-3 or Section 33E-4 of Article 33E of the Criminal Code of 1961, 720 ILCS 5/33E-1 et seq. Consultant hereby represents that the only persons, firms, or corporations interested in this Contract as principals are those disclosed to Owner prior to the execution of this Contract, and that this Contract is made without collusion with any other person, firm, or corporation. If at any time it shall be found that Consultant has, in procuring this Contract, colluded with any other person, firm, or corporation, then Consultant shall be liable to Owner for all loss or damage that Owner may suffer thereby, and this Contract shall, at Owner's option, be null and void.

Consultant hereby represents and warrants that neither Consultant nor any person affiliated with Consultant or that has an economic interest in Consultant or that has or will have an interest in the Work or will participate, in any manner whatsoever, in the Work is acting, directly or indirectly, for or on behalf of any person, group, entity or nation named by the United States Treasury Department as a Specially Designated National and Blocked Person, or for or on behalf of any person, group, entity or supports terrorism, and neither Consultant nor any person affiliated with Consultant or that has an economic interest in Consultant or that has or will have an interest in the Work or will participate, in any manner whatsoever, in the Work is, directly or indirectly, engaged in, or facilitating, the Work on behalf of any such person, group, entity or nation.

7.4 Assignment

Consultant shall not (i) assign this Contract in whole or in part, (ii) assign any of Consultant's rights or obligations under this Contract, or (iii) assign any payment due or to become due under this Contract without the prior express written approval of Owner, which approval may be withheld in the sole and unfettered discretion of Owner; provided, however, that Owner's prior written approval shall not be required for assignments of accounts, as defined in the Illinois Commercial Code, if to do so would violate Section 9-318 of the Illinois Commercial Code, 810 ILCS 5/9-318. Owner may assign this Contract, in whole or in part, or any or all of its rights or obligations under this Contract, without the consent of Consultant.

7.5 Confidential Information

All information supplied by Owner to Consultant for or in connection with this Contract or the Services shall be held confidential by Consultant and shall not, without the prior express written consent of Owner, be used for any purpose other than performance of the Services.

7.6 No Waiver

No examination, inspection, investigation, test, measurement, review, determination, decision, certificate or approval by Owner, nor any order by Owner for the payment of money, nor any payment for or use, occupancy, possession or acceptance of the whole or any part of the Services by Owner, nor any extension of time granted by Owner, nor any delay by Owner in exercising any right under this Contract, nor any other act or omission of Owner shall constitute or be deemed to be an acceptance of any defective, damaged, flawed, unsuitable, nonconforming or incomplete Services, nor operate to waive or otherwise diminish the effect of any warranty or representation made by Consultant or of any requirement or provision of this Contract or of any remedy, power or right of Owner.

7.7 No Third Party Beneficiaries

No claim as a third party beneficiary under this Contract by any person, firm, or corporation (other than Owner and Consultant) shall be made or be valid against Owner or Consultant.

7.8 Notices

All notices required or permitted to be given under this Contract shall be in writing and shall be deemed received by the addressee thereof when delivered in person on a business day at the address set forth below or on the third business day after being deposited in the United States mail, for delivery at the address set forth below by properly addressed, postage prepaid, certified or registered mail, return receipt requested.

Notices and communications to Owner shall be addressed to, and delivered at, the following address:

Lake County Forest Preserve District 1899 West Winchester Road Libertyville, Illinois 60048 Attention: Matt Ueltzen

Notices and communications to Consultant shall be addressed to and delivered at the following address:

NAME Hey and Associates, Inc.

ADDRESS 26575 W. Commerce Dr. Suite 601

CITY STATE Volo, IL

Attention: Kevin Kleinjan

The foregoing shall not be deemed to preclude the use of other non-oral means of notification or to invalidate any notice properly given by any such other non-oral means.

By notice complying with the requirements of this Section 7.8, Owner and Consultant each shall have the right to change the address or addressee or both for all future notices to it, but no notice of a change of address or addressee shall be effective until actually received.

7.9 Governing Laws

This Contract and the rights of Owner and Consultant under this Contract shall be interpreted according to the internal laws, but not the conflict of laws rules, of the State of Illinois.

7.10 Changes in Laws

Unless otherwise explicitly provided in this Contract, any reference to laws shall include such laws as they may be amended or modified from time to time.

7.11 Compliance with Laws and Grants

Consultant shall perform, or cause its Sub-consultants to perform, the Services in accordance with all required governmental permits, licenses, or other approvals and authorizations, and with applicable statutes, ordinances, rules, and regulations. This requirement includes, but is not limited to, compliance with the Fair Labor Standards Act; any statutes regarding qualification to do business; any statutes prohibiting discrimination because of, or requiring affirmative action based on, race, creed, color, national origin, age, sex, or other prohibited classification, including, without limitation, the Americans with Disabilities Act of 1990, 42 U.S.C. §§ 12101 et seq., and the Illinois Human Rights Act, 775 ILCS 5/1-101 et seq. Consultant shall also comply with applicable conditions of any federal, state, or local grant received by Owner or Consultant with respect to this Contract or the Services.

Consultant shall be liable for any fines or civil penalties that may be imposed or incurred by a governmental agency with jurisdiction over the Services as a result of Consultant's or its subconsultants' improper performance of, or failure to properly perform, the Services or any part thereof.

Every provision of law required by law to be inserted into this Contract shall be deemed to be inserted herein.

7.12 Ownership of Documents

Consultant and Consultant's sub-consultants shall be deemed the original authors and owners respectively of materials produced pursuant to this Contract and shall retain all common law, statutory and other reserved rights, including copyrights. Consultant hereby grants and conveys to Owner perpetual, irrevocable non-exclusive rights and license to use all Required Submittals and other materials produced under this Contract for District purposes and no other purposes. The Owner agrees to defend and hold the Consultant and the Consultant's sub-consultants harmless from any causes of action, claims, losses, damages and expenses of any nature whatsoever, including reasonable attorney's fees, resulting from any unauthorized re-use of the Consultant's sub-consultants' materials.

7.13 Time

The Contract Time is of the essence of this Contract. Except where otherwise stated, references in this Contract to days shall be construed to refer to calendar days.

7.14 Severability

The provisions of this Contract shall be interpreted when possible to sustain their legality and enforceability as a whole. In the event any provision of this Contract shall be held invalid, illegal, or unenforceable by a court of competent jurisdiction, in whole or in part, neither the validity of the remaining part of such provision, nor the validity of any other provisions of this Contract shall be in any way affected thereby.

7.15 Entire Agreement

This Contract sets forth the entire agreement of Owner and Consultant with respect to the accomplishment of the Services and the payment of the Contract Price therefore, and there are no other understandings or agreements, oral or written, between Owner and Consultant with respect to the Services and the compensation therefore.

7.16 Amendments

No modification, addition, deletion, revision, alteration, or other change to this Contract shall be effective unless and until such change is reduced to writing and executed and delivered by Owner and Consultant.

IN WITNESS WHEREOF, Owner and Consultant have caused this Contract to be executed as of the day and year first written above.

(SEAL)

Attest/Witness

LAKE COUNTY FOREST PRESERVE DISTRICT

Ву: ____

Julie A. Gragnani Title: Secretary

Attest/Witness

Ву: _____

By:

Thomas L. Polzin

Title: Executive Director

Alex Ty Kovach

HEY AND ASSOCIATES, INC.

Title:

Title: Vice President

ATTACHMENT A - SUPPLEMENTAL SCHEDULE OF CONTRACT TERMS

1. Project:

Provide land surveying, data collection, agency coordination, design, engineering, hydrologic/hydraulic analysis, preparation of concept plans, and bidding and contract documents for the <u>Hydrologic Analysis and Design Services for Southern Des Plaines</u> <u>Forest Preserves</u> Project at multiple Forest Preserve sites. This project includes: analysis of existing drainage conditions on the Grainger and Wright Woods Forest Preserves, St. Mary's Road culvert assessment and re-design, Adlai E. Stevenson Historic Home site drainage upgrades and modifications to restore hydrology to open and wooded wetland areas. In general, solutions will be developed to:

- maintain and improve critical drainage systems and culverts to protect on-site and off-site concerns,
- reconfigure necessary culvert and overland flow paths to maintain suitable conveyance,
- remove, abandon and manipulate current drain tile systems to minimize loss of hydrology
- reconfigure and utilize overland flow paths to restore hydrology to open and wooded wetland habitats.

The work will be divided into six project areas:

A. Area A: Grainger Woods North Site Drainage extending to IL Route 60:

Existing mapped agricultural drain tiles will be reviewed and additional background research performed to develop a tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. The current driveway profile will be reviewed and necessary driveway, trail and associated drainage structure improvements depicted. The wooded wetland adjacent to IL Route 60 will be analyzed for apparent recent changes that may contribute to reported high water levels. Concept level documents will be prepared for future implementation by District crews.

B. Area B: Grainger Woods South Site Drainage extending to St. Mary's Road:

Existing mapped drain tiles will be reviewed and supplemental reconnaissance will be performed in pertinent areas not previously covered and additional field investigation and background research performed to develop a tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. Concept level documents will be prepared for future implementation by District crews.

C. Area C: St. Mary's Road Right-of-Way:

The 48-inch culvert under St. Mary's Road will be analyzed and re-designed to maintain its current conveyance. Options will be considered to either place a control structure upstream at a higher elevation to reduce head-cutting east of the culvert or replace the culvert to create opportunities to maximize surface hydrology downstream of the culvert. Full bid and construction documents will be prepared for proposed culvert modifications to be provided to the Lake County Division of Transportation (LCDOT) for their consideration and inclusion in future proposed roadway improvements.

D. Area D: Adlai E. Stevenson Historic Home Site Structures and Access Drive:

The existing drainage structures along the driveway leading to the Adlai E. Stevenson Historic Home Site, the drain tile servicing property north of the site and drain tiles servicing the Adlai E. Stevenson Historic Home Site will be analyzed and re-routed if necessary to maintain their current function and protect on-site and off-site concerns.

Concept level documents will be prepared for future permitting and implementation by District crews.

E. Area E: Adlai E. Stevenson Historic Home Site Open Areas to Lloyd Driveway:

Existing mapped agricultural drain tiles will be reviewed and additional background research performed to develop a drain tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. Concept level documents will be prepared for future implementation by District crews.

F. Area F: Lloyd Driveway to Wright Woods Parking Lot / Discharge Point:

Field investigation and background research will be performed to consider increased overland flow through Wright Woods resulting from modifications made within the Adlai E. Stevenson Historic Home Site open areas. Existing trails, trail crossing, entry road crossings and structures within the Wright Woods parking area and discharge point will be analyzed to determine current capacities and potential necessary modifications. Concept level documents will be prepared for future implementation by District crews.

The Services include, but are not limited to, all of the Services provided in Consultant's detailed Scope of Work. See Attachment B.

2. Approvals and Authorizations:

Specific permitting tasks are not included in this scope. Contractor will coordinate with the following agencies during design and provide a memorandum outlining anticipated required future permitting needs for the proposed projects:

- A. Illinois Department of Natural Resources (IDNR) for Threatened and Endangered Species consultation and Interagency Wetland Policy Act
- B. IDNR Office of Water Resources (OWR) for permitting of any work within the Des Plaines River Floodway if required (work in floodway not anticipated)
- C. Federally listed Threatened and Endangered Species and Critical Habitat Review (Required by Lake County Watershed Development Ordinance (WDO) and if U. S. Army Corps of Engineers (USACE) permit needed)
- D. Lake County Stormwater Management Commission (LCSMC) for Preliminary Wetland Jurisdictional Determination, Watershed Development Permit (WDP), Floodway, and Letter of No Impact (LONI) if no USACE permit is needed
- E. USACE for Letter of No Objection (LONO) and/or Regional Permit
- F. Illinois Environmental Protection Agency (IEPA) for NPDES
- G. Illinois Historic Preservation Agency (IHPA) for cultural and historical resources
- H. Lake County Division of Transportation (LCDOT) for Construction Site Access and St. Mary's Road Culvert
- 3. Commencement Date: March 24, 2015
- 4. Completion Date:
 - A. November, 16, 2015, plus extensions, if any, authorized by a Change Order issued pursuant to Section 2.1 of this Contract, for the completion of the following:
 - 1) Land Surveying
 - 2) Wetland Studies and initial meetings with permit agencies
 - 3) Subsurface Drainage Investigation
 - B. January 11, 2016, plus extensions, if any, authorized by a Change Order issued pursuant to Section 2.1 of this Contract, for the completion of the following:

- 1) Hydrology and Hydraulics Studies and Design
- 2) Draft submittal of all plan sheets (90% completion) and specifications, if applicable (75% completion).
- C. January 25, 2016, plus extensions, if any, authorized by a Change Order issued pursuant to Section 2.1 of this Contract, for submittals to all permitting agencies.
- D. April 12, 2016, plus extensions, if any, authorized by a Change Order issued pursuant to Section 2.1 of this Contract, for completion of all bidding plan sheets, specifications, and cost estimates.
- E. July 1, 2016, plus extensions, if any, authorized by a Change Order issued pursuant to Section 2.1 of this Contract, for completion of all work through the pre-construction meeting.
- 5. Insurance Coverage:
 - A. Worker's Compensation and Employer's Liability with limits not less than:
 - (1) Worker's Compensation: Statutory
 - (2) Employer's Liability:
 - a. \$1,000,000.00 injury-per-occurrence
 - b. \$1,000,000.00 disease-per-employee
 - c. \$1,000,000.00 disease-policy limit

Such insurance shall evidence that coverage applies in the State of Illinois.

- B. Comprehensive Motor Vehicle Liability with a combined single limit of liability for bodily injury and property damage of not less than \$1,000,000.00 for vehicles owned, non-owned or rented. All employees shall be included as insured's.
- C. Comprehensive General Liability with coverage written on an "occurrence" basis and with limits no less than:
 - (1) General Aggregate: \$2,000,000.00
 - Bodily Injury: \$2,000,000.00 per person \$2,000,000.00 per occurrence
 Property Damage: \$2,000,000.00 per person \$2,000,000.00 aggregate

Coverages shall include:

- Broad Form Property Damage Endorsement
- Blanket Contractual Liability (must expressly cover the indemnity provisions of the Contract)
- D. Professional Liability Insurance with a limit of liability of not less than \$1,000,000.00 per claim and aggregate, and covering Consultant against all sums that Consultant may be obligated to pay on account of any liability arising out of the Contract.
- E. Umbrella Policy. The required coverages may be in any combination of primary, excess and umbrella policies. Any excess or umbrella policy must provide excess coverage of underlying insurance on a following-form basis such that when any loss covered by the primary policy exceeds the limits under the primary policy, the excess or umbrella policy becomes effective to cover such loss.

- F. Owner as Additional Insured. Owner shall be named as an Additional Insured on all policies except for:
 - Worker's Compensation Policy
- G. Other Parties as Additional Insured. In addition to Owner, the following parties shall be named as Additional Insured on the following policies:

Additional Insured

Policy or Policies

6. Contract Price:

Schedule of Prices - Lump Sum

Lump sum amount includes all travel, living and direct project expenses including printing, postage and handling. There shall be no additional costs.

For providing, performing and completing each component of Services, the following Breakdown Schedule amount, set forth opposite each component:

| Α. | Project Administration | \$ 10,740 |
|----|---|-----------|
| В. | Land Surveying (supplement LCFP survey) | \$ 1,210 |
| C. | Wetland Assessment | \$ 2,180 |
| D. | Subsurface Drainage Inventory (areas not already inventoried) | \$ 1,380 |
| E. | Drainage Improvement Design | \$ 35,020 |
| F. | Hydrology and Hydraulics Studies and Design | \$ 8,980 |
| G. | Permit Outline and Summary | \$ 1,060 |
| | Estimated Reimbursables | \$ 500 |
| | TOTAL | \$ 61,070 |

For providing, performing and completing all Services, the total Contract Price of:

| Sixty one thousand seventy | Dollars and Zero | Cents |
|----------------------------|------------------|-------|
| (in writing) | | |
| <u>\$61,070</u> | Dollars and 00 | Cents |
| (in finance) | | |

(in figures)

7. Payments:

Regardless of whether the Contract Price is based upon hourly rates or a lump sum, Consultant shall, not later than ten (10) days after execution of the Contract and before submitting its first pay request, submit to Owner a schedule showing the value of each component part or phase of the Services in form and with substantiating data acceptable to Owner ("Breakdown Schedule"). The sum of the items listed in the Breakdown Schedule shall equal the lump sum Contract Price or the not to exceed Contract Price, as the case may be. An unbalanced Breakdown Schedule providing for overpayment of Consultant on component parts or phases of the Services to be performed first will not be accepted. The Breakdown Schedule shall be revised and resubmitted until acceptable to Owner. No payment shall be made for Services until Consultant has submitted, and Owner has approved, an acceptable Breakdown Schedule. When a component or phase of the Services, as identified in the Breakdown Schedule, is complete, Owner will pay Consultant the value of such component or phase as provided in the Breakdown Schedule; however, Owner shall not be required to make payments more frequently than once per month.

All pay requests from Consultant shall be made using the pay request format supplied by Owner.

Owner may require that the approved Breakdown Schedule be revised based on developments occurring during the provision and performance of the Services. If Consultant fails to submit a revised Breakdown Schedule that is acceptable to Owner, Owner shall have the right either to suspend Progress and Final Payments for Services or to make such payments based on Owner's determination of the value of the Services completed.

ATTACHMENT B CONSULTANT'S SCOPE OF WORK

1. <u>PROJECT DESCRIPTION</u>

Provide land surveying, data collection, agency coordination, design, engineering, hydrologic/hydraulic analysis, preparation of concept plans, and bidding and contract documents for <u>DRAINAGE ANALYSIS AND DESIGN SERVICES FOR GRAINGER AND</u> <u>WRIGHT WOODS FOREST PRESERVES AND ADLAI E. STEVENSON HISTORIC</u> <u>HOME HYDROLOGIC RESTORATION PROJECT</u>. This project includes: analysis of existing drainage conditions on the Grainger and Wright Woods Forest Preserves, St. Mary's Road culvert assessment and re-design, Adlai E. Stevenson Historic Home site drainage upgrades and modifications to restore hydrology to open and wooded wetland areas. In general, solutions will be developed to:

- maintain and improve critical drainage systems and culverts to protect on-site and off-site concerns,
- reconfigure necessary culvert and overland flow paths to maintain suitable conveyance,
- remove, abandon and manipulate current tiles systems to minimize loss of hydrology
- reconfigure and utilize overland flow paths to restore hydrology to open and wooded wetland habitats.

The work will be divided into six project areas:

A. Area A: Grainger Woods North Site Drainage extending to IL Route 60:

Existing mapped agricultural drain tiles will be reviewed and additional background research performed to develop a tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. The current driveway profile will be reviewed and necessary driveway, trail and associated drainage structure improvements depicted. The wooded wetland adjacent to IL Route 60 will be analyzed for apparent recent changes that may contribute to reported high water levels. Concept level documents will be prepared for future permitting and implementation by District crews.

B. Area B: Grainger Woods South Site Drainage extending to St. Mary's Road:

Existing mapped drain tiles will be reviewed and supplemental reconnaissance will be performed in pertinent areas not previously covered and additional field investigation and background research performed to develop a tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. Concept level documents will be prepared for future permitting and implementation by District crews.

C. Area C: St. Mary's Road Right-of-Way:

The 48-inch culvert under St. Mary's Road will be analyzed and re-designed to maintain its current conveyance. Options will be considered to either place a control structure upstream at a higher elevation to reduce head-cutting east of the culvert or replace the culvert to create opportunities to maximize surface hydrology downstream of the culvert. Full bid and construction documents will be prepared for proposed culvert modifications to be provided to the Lake County Division of Transportation (LCDOT) for their consideration and inclusion in future proposed roadway improvements.

D. Area D: Adlai E. Stevenson Historic Home Site Structures and Access Drive:

The existing drainage structures along the driveway leading to the Adlai E. Stevenson Historic Home Site, the drain tile servicing property north of the site and drain tiles servicing the Adlai E. Stevenson Historic Home Site will be analyzed and re-routed if necessary to maintain their current function and protect on-site and off-site concerns. Concept level documents will be prepared for future permitting and implementation by District crews.

E. Area E: Adlai E. Stevenson Historic Home Site Open Areas to Lloyd Driveway:

Existing mapped agricultural drain tiles will be reviewed and additional background research performed to develop a drain tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. Concept level documents will be prepared for future permitting and implementation by District crews.

F. Area F: Lloyd Driveway to Wright Woods Parking Lot / Discharge Point:

Field investigation and background research will be performed to consider increased overland flow through Wright Woods resulting from modifications made within the Adlai E. Stevenson Historic Home Site open areas. Existing trails, trail crossing, entry road crossings and structures within the Wright Woods parking area and discharge point will be analyzed to determine current capacities and potential necessary modifications. Concept level documents will be prepared for future permitting and implementation by District crews.

2. <u>CONSULTANT'S RESPONSIBILITIES</u>

- A. Project Administration and General Requirements
 - 1) <u>Meetings:</u> Meet with Owner's staff to initiate the project, review existing documents and aerial photography and discuss project goals and design intent. Attend any other meetings as necessary to gather and/or present information, review Consultant's progress and discuss project issues.
 - 2) <u>Site Inspection:</u> Inspect the entire site to become familiar with all aspects of the work area, compare existing conditions with the proposed design intent, and to identify any special or unusual constraints. Consultant shall re-examine the site as often as needed to properly perform the responsibilities of this Contract.
 - 3) <u>Data Collection</u>: Collect and /or review data and documents relevant to the project, including those related to utilities, wetlands, soils, legal issues, land uses and zoning, etc.
 - 4) <u>Coordination:</u> Conduct preliminary and ongoing meetings as needed with all relevant approval agencies, stakeholders and consultants and act as the prime coordinator for the project.
 - 5) <u>Administrative Costs:</u> Administrative costs which are known to be typical to projects of this nature by industry standards or are specified in this Contract, commonly known as Reimbursable Expenses or Direct Costs, shall be included in Project Administration and shall not be billed separately. These costs include local travel expenses, telecommunication and internet-based service fees, postage and shipping (including overnight or rush shipping), graphics services, plotting, copying (including color copying), plan and drawing reproduction and presentation preparation. The Owner shall be responsible for reproducing the contract documents distributed to bidders. In the case of any non-typical administrative costs that may be required, the Consultant shall notify the Owner

of the nature and cost of those expenses for review and approval by the Owner prior to incurring said costs.

- 6) <u>CAD Standards</u>: All design and engineering shall be completed in a format readable by MicroStation V8 or V8i. All design and engineering information shall be located in separate files by discipline as specified in the provided standards. All vector information in the files shall be current and pertinent to the design.
- 7) <u>Concept "For District Use" Plan Set:</u> The drawings shall illustrate all information required to construct the project using District crews. All land survey elements shall be included on the appropriate sheets. Upon the completion of this contract, the consultant shall deliver to the Owner the complete plan set in both MicroStation readable format and as a PDF file with all sheets formatted per the final 'For District Use" plan set and containing the stamp of the Professional Engineer. At minimum, the plan set should include:
 - a) Cover Sheet with project name, project number, location map, and index of sheets, information required by permitting agencies, date and stamp of the Professional Engineer.
 - b) General and Construction Notes
 - c) Overall Site Plan(s) showing improvements, property lines, roads, access points, mapped wetlands, drainage infrastructure, and grading.
 - d) Grading and Drainage Plans showing proposed drainage improvements, including grading.
 - e) Restoration/Planting Plans showing any required site restoration to disturbed areas or planned naturally restored areas.
 - f) Details, Sections and Elevations necessary to construct the improvements.
- 8) <u>Bid and Construction Plan Set:</u> The drawings shall illustrate all information required to bid and construct the project. All land survey elements shall be included on the appropriate sheets. Upon the completion of this contract, the consultant shall deliver to the Owner the complete plan set and contract documents in both MicroStation readable format and as a PDF file with all sheets formatted per the final 'For Construction" plan set and containing the stamp of the Professional Engineer. The plans will depict the most accurate wetland information available; however, additional fieldwork and reporting may be necessary to meet permit requirements. At minimum, the plan set should include:
 - a) Cover Sheet with project name, project number, location map, and index of sheets, information required by permitting agencies, date and stamp of the Professional Engineer.
 - b) General Notes, Construction Notes and Permitting Notes
 - c) Overall Site Plan(s) showing improvements, property lines, roads, access points, wetlands, drainage infrastructure, and grading.
 - d) Grading and Drainage Plans showing detailed documentation of proposed drainage improvements, including grading.
 - e) Restoration/Planting Plans showing any required site restoration to disturbed areas or planned naturally restored areas.
 - f) Soil Erosion and Sediment Control Plans showing soil erosion and sediment control measures required to meet permit conditions.

- g) Roadways and Traffic Control (if included) showing all proposed improvements according to the standards of the appropriate jurisdictional body.
- h) Details, Sections, Elevations, and Manufacturer's Sheets as necessary to permit, bid and construct the improvements.
- B. Land Surveying
 - <u>Qualifications</u>: Supplemental field surveying shall be performed under the direction of a State of Illinois Professional Engineer in order to obtain data necessary for design, permitting, and construction. Surveying shall include the following:
 - 2) <u>Control Data and Standards:</u> This work will be performed by Owner as defined in article 3.H.
 - 3) Land Survey Area Limits: These areas shall include:
 - a) Supplemental spot elevations and cross sections to be determined by consultant within project area as needed to supplement data collected by LCDOT surveyor as defined in article 3.H.
 - b) Supplemental drainage structures and culverts to be determined by consultant within project area as needed to supplement data collected by LCDOT surveyor as defined in article 3.H.
 - 4) <u>Survey Elements:</u> The following existing site features where data is not currently available and where they may impact proposed improvements shall be surveyed, with both horizontal and vertical data recorded:
 - a) Spot topography and transects
 - b) Drainage structures
 - c) Culverts with invert elevations
 - d) Any other elements which could impact the proposed improvements
 - 5) <u>Boundary Lines:</u> This work will be performed by Owner as defined in article 3.H.
 - 6) <u>Digital File Standards:</u> All field survey data shall be adjusted to the horizontal and vertical standards as set forth in B.2. and imported to a format readable by MicroStation V8 or V8i. The Surveyor/Consultant shall obtain the Owner's seed file for use with all MicroStation files. No other seed files shall be used for the project.
- C. Wetland Assessment
 - The Consultant shall utilize existing mapped wetland boundary information and on site reconnaissance to guide concept level planning, provide opinion of wetland jurisdiction, and identify potential future permitting requirements resulting from concept plan improvements. In addition to the mapped ADID wetlands, any other wetlands that may be considered a high quality aquatic resource will be noted.
 - 2) Wetlands will not be delineated or marked in the field, nor will a full wetland report be prepared as it is our understanding that modifications are not anticipated to take place for approximately three years and flagged boundaries need to be updated after three years. If the District would like a full wetland delineation performed, we will provide a separate proposal at the Owner's

request for this task.

- D. Subsurface Drainage Inventory (Drain Tile Investigation) Portions of Area B Only
 - 1) Consultant shall perform a supplemental field reconnaissance (in pertinent portions of Area B not already inventoried) focusing on drain tile blowouts and outlets to determine likely locations for drain tiles within the proposed modification area (study area). Following the reconnaissance, the consultant shall begin a program of investigative hand probing to determine the presence or absence of drain tiles in accordance with the standards identified in the Lake County Watershed Development Ordinance (Ordinance). Any drain tile encountered will be staked and logged for location, size, material, condition, percentage of flow, percentage of siltation and depth of cover in accordance with the Ordinance. The consultant will diligently attempt to locate all on-site drain tiles within the study area. However, any drain tile not located will necessarily remain unknown.
 - 2) After the investigative fieldwork, the field stakes will be accurately surveyed and incorporated into the existing base information for planning purposes. The consultant will prepare a summary report presenting the findings of the subsurface drainage inventory in accordance with the requirements of the Ordinance. The consultant's report will consist of an aerial photograph exhibit depicting the location of investigative trenches as well as any encountered tiles and their approximate location, size and extent along with the provided existing contour and property boundary information. The report provided shall be constructed from field derived GPS data points as well as topographical observation and interpretation. Consultant shall provide copies of the final report to owner and any pertinent review agencies.
- E. Drainage Improvement Design

1) Area A: Grainger Woods North Site Drainage extending to IL Route 60:

Existing mapped agricultural drain tiles will be reviewed and additional background research performed to develop a tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. The current driveway profile will be reviewed and necessary driveway, trail and associated drainage structure improvements depicted. The wooded wetland adjacent to IL Route 60 will be analyzed for apparent recent changes that may contribute to reported high water levels. Concept level documents will be prepared for future implementation by District crews.

2) Area B: Grainger Woods South Site Drainage extending to St. Mary's Road:

Existing mapped drain tiles will be reviewed, supplemental field tile reconnaissance will be performed in pertinent areas not previously covered and additional field investigation and background research performed to develop a tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. Concept level documents will be prepared for future implementation by District crews.

3) Area C: St. Mary's Road Right-of-Way:

The 48-inch culvert under St. Mary's Road will be analyzed and re-designed to maintain its current conveyance at a higher elevation to reduce head-cutting east of the culvert and create opportunities to maintain higher normal water levels

downstream of the culvert. Full bid and construction documents will be prepared for proposed culvert modifications to be provided to the Lake County Division of Transportation (LCDOT) for their consideration and inclusion in future proposed roadway improvements.

4) <u>Area D: Adlai E. Stevenson Historic Home Site Structures and Access</u> <u>Drive:</u>

The existing drainage structures along the driveway leading to the Adlai E. Stevenson Historic Home Site, the drain tile servicing property north of the site and drain tiles servicing the Adlai E. Stevenson Historic Home Site will be analyzed and re-routed if necessary to maintain their current function and protect on-site and off-site concerns. Concept level documents will be prepared for future implementation by District crews.

5) <u>Area E: Adlai E. Stevenson Historic Home Site Open Areas to Lloyd</u> <u>Driveway:</u>

Existing mapped drain tiles will be reviewed and additional field investigation and background research performed to develop a tile modification plan that will maximize site hydrology while protecting on-site and off-site concerns. Concept level documents will be prepared for future implementation by District crews.

6) Area F: Lloyd Driveway to Wright Woods Parking Lot / Discharge Point:

Field investigation and background research will be performed to consider increased overland flow through Wright Woods resulting from modifications made within the Adlai E. Stevenson Historic Home Site open areas. Existing trails, trail crossing, entry road crossings and structures within the Wright Woods parking area and discharge point will be analyzed to determine current capacities and potential necessary modifications. Concept level documents will be prepared for implementation by District crews.

- F. Hydrology and Hydraulics Studies and Design
 - 1) Except as noted below, the Consultant shall perform a complete hydrologic and hydraulic study and analysis of the project area as required to satisfy permitting requirements by the pertinent agencies such as the LCSMC and USACE and to properly design drainage structures and culverts, swales, overland flow paths, roadway profiles or any other proposed improvement which impacts water flow and drainage. Existing maps, aerial photos, land surveys and data shall be utilized to identify drainage area tributaries and the most appropriate hydrologic model selected to correctly design and engineer the proposed improvements. The study area limits shall extend upstream and downstream for an appropriate distance to assure an accurate analysis of the conditions within the area of proposed improvements. The study shall include locations and data on existing drain tiles where appropriate. Preparation of an XP-SWMM hydrologic and hydraulic model representing the full project area, including off-site areas required to evaluate potential off-site impacts is anticipated. The existing conditions modeling will include project areas east of St. Mary's Road, the existing culvert under St. Mary's Road, drainage infrastructure and overland flow paths pertinent to the Adlai E. Stevenson Home, and areas downstream on Wright Woods Forest Preserve that may impact drainage. Stormwater detention is assumed to not be required for this project.

- 2) Consultant shall perform modeling to evaluate proposed drainage improvements. Modeling will be prepared to evaluate and document any proposed modifications to drainage. Modeling will be used to size infrastructure and document that detrimental off-site impacts to flood elevations will not occur as a result of the proposed modifications. Proposed drainage improvements will be evaluated to determine if increased downstream discharges occur. Proposed drainage modifications will be proposed to accommodate any potential downstream impacts. Modifications may include the Wright Woods entrance roadway and culvert and impacts to inflow and outflow to the existing Wright Woods pond.
- 3) A preliminary review of the site conditions at all six project locations shows existing Zone AE floodplain associated with the Des Plaines River affecting portions of the proposed project areas. However, the mapped floodway of the Des Plaines River does not appear to impact the project areas. The available FEMA Flood Insurance Rate Mapping (FIRM) shows that the base flood elevation for these areas is between 649 to 650. A final determination of floodplain limits and the impact on project components will be provided upon completion of surveying and data review tasks. Compensatory storage requirements will be evaluated for any proposed work within the Des Plaines River floodplain. Design will accommodate any anticipated compensatory storage requirements.

Consultant shall prepare a stormwater report documenting the above information for submittal to the Lake County Stormwater Management Commission for use at the time permitting is engaged. Consultant does not believe any other submittals will be necessary to document stormwater and floodplain management portions of the project. This task does not include permit submittals or response.

- G. Permit Outline and Summary
 - We understand specific permitting tasks are not included in this scope as the anticipated schedule for construction is approximately 2018. We will coordinate with the following agencies during design and provide a memorandum outlining required future permitting needs for the proposed projects:
 - 2) Illinois Department of Natural Resources (IDNR) for Threatened and Endangered Species Consultation and Interagency Wetland Policy Act
 - 3) IDNR Office of Water Resources (OWR) for permitting of any work within the Des Plaines River Floodway if required (no work in floodway anticipated)
 - 4) Federally Listed Threatened and Endangered Species and Critical Habitat Review (Required by Lake County Watershed Development Ordinance (WDO) and if U. S. Army Corps of Engineers (USACE) permit needed)
 - 5) Lake County Stormwater Management Commission (LCSMC) for Preliminary Wetland Jurisdictional Determination, Watershed Development Permit (WDP), Floodway, and Letter of No Impact (LONI) if no USACE permit is needed
 - 6) USACE for Letter of No Objection (LONO) and Regional Permit
 - 7) Illinois Environmental Protection Agency (IEPA) for NPDES
 - 8) Illinois Historic Preservation Agency (IHPA) for cultural and historical resources
 - 9) Lake County Division of Transportation (LCDOT) for Construction Site Access and St. Mary's Road Culvert
- 3. <u>Owner's Responsibility</u>

Throughout the progress of the Work, as described in this Contract, Owner shall:

- A. Notify Consultant in writing to proceed with the Work described herein and designate in writing a person to act as Owner's representative with respect to the Services to be rendered under this Contract.
- B. Assist Consultant by placing at its disposal all available information pertinent to the project sites including previous boundary surveys (CAD format), reports, records, standard details and specifications, drawings (CAD and paper formats), 1-foot Lake County topography and other available GIS information in CAD format, maps, and other data that may be useful to Consultant in the preparation of the Work.
- C. Arrange for access to and make provisions for Consultant to enter upon the site as required to perform the Work.
- D. Provide conceptual site plan component preferences.
- E. Define study area boundaries prior to Consultant commencing survey work.
- F. Obtain, conduct and manage Illinois Historic Preservation Agency (IHPA) sign-off and utility or access and easements.
- G. Pay any and all permit, inspection, utility connection and approval fees that may be required.
- H. Provide Consultant with the bid package format (including General Conditions) to be used on this project.
- I. Administer the public bidding process for selecting an experienced contractor using Owner's bid package format.
- J. Provide overall construction contract general administration.
- K. Provide general construction observation services.
- L. Provide Consultant with copies of title commitments, record documents and old plat of surveys for the property.
- M. Perform topographic and structure survey
- H. Land Surveying
 - <u>Qualifications</u>: Field surveying shall be performed by a State of Illinois Professional Land Surveyor (Surveyor) and field staff under the direction of a State of Illinois Professional Engineer in order to obtain data necessary for design, permitting, and construction. Surveying shall include the following:
 - 2) <u>Control Data and Standards:</u> The Surveyor shall establish control points at strategic locations within all areas proposed for improvements. All surveyed points shall include both horizontal and vertical data. All horizontal control data shall reference the Illinois State Plane Coordinates Eastern Zone NAD 83; all vertical control data shall reference NAVD 88. Global Positioning Systems (GPS) may be utilized and should be in feet and not meters. In determining the quantity and location of these points, the surveyor shall assume that, at any one location along trails or other areas of development, two control points shall be visible. The Owner may provide initial control data if available. Base control data is subject to review and approval by the Owner.

- 3) <u>Land Survey Area Limits:</u> Land survey area limits shall allow for the complete and thorough design, engineering, permitting and construction of all proposed improvements. These areas have been depicted on the attached exhibits as "A through G" and shall include:
 - a) Location A: Shots to be taken at 25-foot intervals along driveway centerline and at lowest point to develop driveway profile. Culvert and other drainage structures to be collected according to criteria listed in article 3.H.4).
 - b) Location B: St. Mary's Road Right-of-Way within culvert study area depicted extending 25-feet beyond right-of-way in each direction. All features to be collected according to criteria listed in article 3.H.4).
 - c) Location C: Drainage structure to be collected according to criteria listed in article 3.H.4).
 - d) Location D: Stevenson Historic Home access drive and potential storm sewer improvement route depicted extending 25-feet beyond right-of-way to the north. All features to be collected according to criteria listed in article 3.H.4).
 - e) Location E: Shots to be taken at 25-foot intervals along driveway centerline and at lowest point to develop driveway profile. Culvert and other drainage structures to be collected according to criteria listed in article 3.H.4).
 - f) Location F: Shots to be taken at 25-foot intervals along driveway entrance road and at lowest point to develop driveway profile. Culvert and other drainage structures and culverts to be collected according to criteria listed in article 3.H.4).
 - g) Location G: Culvert and other drainage structures to be collected according to criteria listed in article 3.H.4).
- 4) <u>Survey Elements:</u> The following existing site features where data is not currently available and where they may impact proposed improvements shall be surveyed, with both horizontal and vertical data recorded:
 - a) Topography with one foot contours
 - b) Pavement edges and curbs
 - c) Drainage structures
 - d) Culverts with invert elevations
 - e) Building structures
 - f) Utility structures and markers
 - g) Shorelines of lakes, ponds, rivers and streams
 - h) Walls, fences and gates
 - i) Trees measuring 6" diameter at breast height and larger (in select locations)
 - j) Mass vegetation edges
 - k) Any other elements which could impact the proposed improvements
- 5) <u>Boundary Lines:</u> In addition to the field survey work, the Surveyor shall include all property, easement and right-of-way lines in the digital survey file as provided by the owner or others. The surveyor shall not be responsible for establishing property, easement and right-of-way lines.

6) <u>Digital File Standards:</u> All field survey data shall be adjusted to the horizontal and vertical standards as set forth in B.2. and imported to a format readable by MicroStation V8 or V8i. The Surveyor shall use the Owner's seed file for use with all MicroStation files. No other seed files shall be used for the project.

ATTACHMENT C - KEY PERSONNEL

1. Key Project Personnel – Owner

| NAMES | TELEPHONE NUMBERS |
|-------------------------------|-------------------|
| Matt Ueltzen, Project Manager | 847-968-3290 |
| John Nelson | 847-968-3407 |

2. Key Project Personnel – Consultant

| NAMES | TELEPHONE NUMBERS |
|----------------------------------|---------------------------------|
| Kevin Kleinjan – Project Manager | O: 847-740-0888 C: 847-921-5531 |
| Dave Kraft – Project Engineer | O: 847-740-0888 |
| Tom Polzin – Project Principal | O: 847-740-0888 |