**DocuWare Cover Sheet**

**Supplies & Services Contract**

- **Federally Funded**: ☑️
- **Bond Funded**: □
- **Fund Number**: 011
- **Obligation Number**: 17GISSOA
- **Execution Date**: 09/14/2016
- **Expiration Date**: 09/15/2019

**Division/Office**
- Planning & Programming

**District**

**Bureau**
- Urban Program Planning

**Contract Number**: 16-95771

**IPB Number**: □

**PBC Number**: □

- **This document contains an individual’s Social Security Number**: □

**Vendor Name** *(enter exactly as it appears on the contract - do not use acronyms)*

GIS SOLUTIONS INC

**Keywords** *(OPTIONAL - do not use acronyms)* *(20 characters max per keyword, no keyword limit)*

**BUSINESS SERVICES USE ONLY**

- **Originator**: TRANSPORTATION

**Retention Schedule**

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- **Record Type**: CONTRACT

- **Information Status**: CONFIDENTIAL

- **Microfilm Required**: MICROFILM NOT REQUIRED

- **Document Type**: PRIME CONTRACT

- **Contract Type**: NON CONSTRUCTION

- **Media Type**: SCANNED

BoBS 4320-SS (Rev. 12/22/14)
AGENCY NO. 494

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VENDOR NAME & ADDRESS:
GIS SOLUTIONS INC
2612 FARRAGUT DR 2ND FLR
SPRINGFIELD, IL 62704

DOT VENDCR NBR 057829 TAX TYPE 01

MULTIPLE YEAR CONTRACT TO MAX CONTRACT AMT

MO DA YR | MO DA YR | 9,028,123.98 |

CURRENT FY OF CONTRACT ANNUAL CONTRACT AMT

MO DA YR | MO DA YR | 2,782,934.90 |

REIMBURSEMENT EXPENSES INC

MUltIPLE YEAR CONTRACT AMOUNTS YEAR 2-7 (AND)

2) 3,009,374.66
3) 3,009,374.66
4) 225,439.76
5) 
6) 
7) 

DESCRIPTION:
INCREASE WITH FEDERAL HIGHWAY ADMINISTRATION SPR FUNDS

METHOD OF COMPENSATION
(IF MULTIPLE RATE, ENTER 'MR' AND ATTACH A RATE SHEET)

MR

PROCUREMENT INFORMATION
AWARD CODE: B
PUBLICATION DATE: 08/18/2016
REFERENCE #: 22037966
SUBCONTRACTOR UTILIZATION: N
SUBCONTRACTOR DISCLOSURE: N

TRAVEL EXPENSES
YES( ) NO(X)

AMOUNT

ADVANCE PAYMENT
YES( ) NO(X)

ROBERT JOHNSON
PREPARED AND AUTHORIZED BY
10/14/2016

IDOT - PLANNING & PROGRAMMING
CONTRACTING AGENCY/DIVISION

10-14-16
DATE

IDOT - BUREAU OF BUSINESS SERVICES
FILING AGENCY DIVISION
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STATE OF ILLINOIS
CONTRACT
Illinois Department of Transportation
Geographic Information Services (GIS) Service Oriented Architecture
22037966

The Parties to this contract are the State of Illinois acting through the undersigned Agency (collectively the State) and the Vendor. This contract, consisting of the signature page and numbered sections listed below and any attachments referenced in this contract, constitute the entire contract between the Parties concerning the subject matter of the contract, and in signing the contract, the Contractor affirms that the Certifications and if applicable the Financial Disclosures and Conflicts of Interest attached hereto are true and accurate as of the date of the Contractor’s execution of the contract. This contract supersedes all prior proposals, contracts and understandings between the Parties concerning the subject matter of the contract. This contract can be signed in multiple counterparts upon agreement of the Parties. In the event of a conflict between the terms of this contract and the attachments, the order of precedence is as follows:

1. This Contract
2. The Geographic Information System (GIS) Service Oriented Architecture RFP Solicitation Document
3. GIS Solutions Inc. proposal response to the Geographic Information System (GIS) Service Oriented Architecture RFP
4. Appendix A – SUPPLIES AND/OR SERVICES REQUIRED, MILESTONES AND DELIVERABLES, VENDOR / STAFF SPECIFICATIONS

Contract uses Illinois Procurement Gateway Certifications and Disclosures?

☒ Yes (IPG Certifications and Disclosures including FORMS B)
☐ No

1. DESCRIPTION OF SUPPLIES AND SERVICES
2. PRICING
3. TERM AND TERMINATION
4. STANDARD BUSINESS TERMS AND CONDITIONS
5. SUPPLEMENTAL PROVISIONS
6. STANDARD CERTIFICATIONS
7. FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST (IF APPLICABLE)
8. CONTRACT SPECIFIC CERTIFICATIONS AND DISCLOSURES – "FORMS B" (IF APPLICABLE)

In consideration of the mutual covenants and agreements contained in this contract, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree to the terms and conditions set forth herein and have caused this contract to be executed by their duly authorized representatives on the dates shown on the following CONTRACT SIGNATURES page.
1. DESCRIPTION OF SUPPLIES AND SERVICES

1.1. SUPPLIES AND/OR SERVICES REQUIRED: As provided in Appendix A, herein incorporated by reference. GIS Solutions Inc. proposal response to the Geographic Information System (GIS) Service Oriented Architecture RFP.

The Vendor shall supply qualified consultants to fill the following positions:

1) Project Manager (one position)

   a) Role Description. This role is responsible for:

   • Overall planning, organizing, monitoring and controlling of assigned projects

   • Using project management procedures and processes authorized by the Agency, developing and managing the project plan for the creation of mainframe, client/server and/or Internet based computer systems including facilitating the establishment of estimates, timelines, milestones, risk assessments and contingency plans;

   • Preparing and distributing project status reports and other communications;

   • Assuring that project activities and deliverables are within project scope

   • Managing resources leading to successful project implementation

   • Establishing and maintaining professional relationships with pertinent process / system owners and other stakeholders in order to promote an effective partnership between the technical and business components of the Agency;

   • Working independently, with direction from Bureau of Information Processing (BIP) management to effectively implement assigned initiatives

   • High degree of integrity, professionalism, and confidentiality associated with proprietary or other sensitive information.

   (b) Typical examples of work include:

   • Ensures that the project scope is well defined, verified and controlled;

   • Ensures that project activities and deliverables are within the project scope;

   • Identifies, communicates and confirms understanding of project expectations;

   • Identifies roles and skills needed for project activities;

   • Assigns project team member roles and responsibilities from the project resource pool;

   • Identifies and recommends training of team members as required for successful implementation of the project, and provides performance feedback on team members as requested.
• Directs, facilitates and ensures completion of project planning activities, including the Work Breakdown Structure,

• Identifies dependencies among project activities and determines critical path;

• Facilitates the creation of project estimates, timelines and milestones for project activities.

• Organizes and facilitates planning activities to identify assumptions, constraints and risks associated with the project;

• Participates in the development of risk management plans to minimize impact of risk factors;

• Develops and implements contingency plans;

• Tracks project progress weekly and adjusts project plans as needed;

• Verifies achievement of milestones;

• Verifies completeness and quality of project deliverables;

• Identifies changes and ensures that change control procedures are followed;

• Confirms that project procedures are being followed; and

• Communicates status to stakeholders and project sponsors.

(c) Education, Experience and Skills:

• Bachelor’s degree in Computer Science, Management Information Systems or related fields;

• Five or more years of progressively responsible project management experience. This is demonstrated by showing progression of managing small simple projects to managing multiple projects and/or larger scope projects with large items. This experience should include an emphasis on managing the development of client/server and/or Internet applications, comprehensive knowledge of procedures and techniques of project management;

• A Project Management Professional (PMP) certification from the Project Management Institute.

• Understanding of development methodologies, tools and techniques;

• Ability to obtain and maintain rapport and mutual respect with management, stakeholders and system users;

• Ability to effectively communicate in English both orally and in writing;

• Ability to exercise sound judgment in analyzing, appraising, evaluating and solving problems of a procedural, organizational, administrative and technical nature;
• Ability to exercise a high degree of initiative and resourcefulness in the development and completion of work projects;

• Ability to work in a team environment, share information proactively, the ability to organize facts and findings, and to present such information in clear and logical form, orally, and through written media such as memoranda, summaries, systems narratives, flowcharts, workflow diagrams and planning documents;

• Independent research to ensure that commitments, time lines and completion dates are met relative to specific projects or other assigned duties.

(d) Technology Platforms / Tools and Languages:

1. Microsoft Project
2. Microsoft Solutions Framework
3. Microsoft MOSS 2010
4. Microsoft Office

2) Senior Application (.Net) Developer (two positions)

a) Role Description: The individuals in these roles perform difficult and specialized professional work in all areas of mainframe, client/server and/or Internet application development. The work is non-routine in that general policies or procedures must be adapted or applied and new methods must be devised to meet frequently changing or new situations. Typically, the objectives to be achieved are set forth and the results produced are expected to operate within the framework of established policies and procedures. These individuals work under indirect supervision in the performance of the majority of duties; decisions made are required to be in accordance with general instructions, established methods and clearly defined precedents, with unusual problems referred to higher-level professionals. The individuals in these roles will be in frequent personal contact with individuals outside the immediate work environment and execute difficult planning and/or scheduling activities to accomplish goals and objectives, which may include coordinating the work of other Information Technology professionals.

b) Typical examples of work include:

(1) Perform as individual or lead programmer for a complex system or subsystem;

(2) Coordinate the analytical and programming functions required to develop, adapt, convert or maintain applications;

(3) Provides leadership to several assigned programmers in difficult, lengthy, or major projects that utilize advanced programming techniques or support a complex, interrelated system that automates major technical operations;

(4) Coordinate programming activities with systems analysts and other development staff;
(5) Direct and conduct the preparation, review and revision of program code, objects, properties and methods.

(6) Perform analyses and evaluation of legacy systems database and program logic;

(7) Interview and consult with stakeholders concerning desirable changes and perform comprehensive studies and analyses of stakeholder needs and objectives;

(8) Identify procedures and techniques to develop new systems or convert or improve existing systems;

(9) Following approved methodologies, develop detailed systems designs, definitions, flowcharts, and procedures;

(10) Following approved methodologies, develop and apply cross-checks and auditing procedures to assure accuracy and reliable practices; determine and correct deviations from specifications for complex n-tier, object oriented applications.

(11) Perform program coding, testing and implementation activities using specified development languages and technologies; may serve as a project leader of programming staff and coordinate program changes with stakeholders.

(12) Design and implements data conversion programs and procedures;

(13) Develop and implement testing plans, programs and procedures.

c) Education, Experience and Skills:

(1) Bachelor's degree in Computer Science, Geospatial Information Sciences or equivalent from a U.S. accredited college or university, or the knowledge, skill and workplace experience equivalent to four (4) years of college and course work in the aforementioned subjects.

(2) Excellent oral and written communication skills in the English language.

(3) Minimum of 4 years recent and proven experience working collaboratively with other project team members to design, develop, modify, implement and support complex software applications.

(4) Experience mentoring junior developers or experience as lead developer on large projects with multiple developers. Ability to coordinate the activities of work associates to achieve desired results.

(5) Extensive knowledge of Information Technology concepts and principles, the theories and functions of computer systems; Principles and techniques of n-Tier, object oriented development;

(6) Ability to gain and maintain effective working relationships with associates, vendors, clients, and others;

(7) Developed oral and written communication skills to present technical information to others with clarity and precision.
d) Technology Platforms / Tools and Languages:

(1) Strong GIS background with 4+ years of recent and proven experience with ESRI Mapping Technologies and a deep knowledge of ArcGIS for Server including the ArcGIS REST API, dynamic and cached map services, feature services, image services, locators, etc. and their use in web mapping applications.

(2) 3+ years recent and proven experience with ESRI ArcGIS for Server (including version 10.x) configuration, management, and administration

(3) 4+ years of recent and proven experience with modern web technologies including the following:

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<td>CSS3</td>
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<tr>
<td>JavaScript Experience with JavaScript Frameworks/Libraries: Angular.js, Bootstrap, jQuery</td>
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<tr>
<td>RESTful web services with Node.js, C#/ASP.NET MVC</td>
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(4) Strong working knowledge of the following: Provide a detailed resume and other supporting material to substantiate compliance with this requirement.

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<th>C#</th>
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<td>Entity Framework and LINQ</td>
<td>Object Oriented Programming</td>
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<tr>
<td>Team Foundation Server</td>
<td>Agile Methodology</td>
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3) Application (.NET) Developer (four positions)

a) Role Description: This position performs difficult and specialized professional work in all areas of client/server and/or Internet GIS application development; work is non-routine in that general policies or procedures must be adapted or applied and new methods devised to meet frequently changing or new situations. Typically, the objectives to be achieved are set forth and the results produced are expected to achieve the objectives within the framework of established policies and procedures. Positions work under indirect supervision in the performance of the majority of duties; decisions made are in accordance with general instructions, established methods and clearly defined precedents, with unusual problems referred to higher-level professionals.

b) Typical examples of work include:
(1) Performs as individual or lead programmer for a GIS system or subsystem, coordinates the analytical and programming functions required to develop, adapt, convert or maintain GIS applications; coordinates programming activities with systems analysts and other development staff; directs and conducts the preparation, review and revision of GIS program code, objects, properties and methods.

(2) Performs analysis and evaluation of legacy systems database and program logic; interviews and consults with stakeholders concerning desirable changes and performs comprehensive studies and analysis of stakeholder needs and objectives; identifies procedures and techniques to develop new GIS systems or convert or improve existing GIS systems;

(3) Following approved methodologies, develops detailed GIS systems designs, definitions, flowcharts, and procedures; develops and applies cross-checks and auditing procedures to assure accuracy and reliable practices; determines and corrects deviations from specifications for complex n-tier, object oriented applications.

(4) Performs GIS program coding, testing and implementation activities using specified development languages and technologies; may coordinate program changes with stakeholders.

(5) Designs and implements data conversion programs and procedures and develops and implements testing plans, programs and procedures.

c) Education, Experience and Skills:

(1) Bachelor's degree in Computer Science, Management Information Systems or related fields (or equivalent knowledge, skill, experience and mental development) and

(2) Three or more years of progressive responsibility demonstrated by the types and scope of work performed on projects and

(3) Experience in GIS application design and development with an emphasis on object oriented client server and/or web GIS application development with recent experience in the specified technologies;

(4) Extensive knowledge of GIS and Information Technology concepts and principles, the theories and functions of computer systems;

(5) The principles and techniques of n-Tier, object oriented development;

(6) A working knowledge of the methods, procedures and techniques of conducting feasibility studies for system conversions and enhancements;

(7) The ability to analyze data logically and exercise sound judgment in defining and evaluating problems of an operational or procedural nature;

(8) The ability to gain and maintain effective working relationships with associates, vendors, clients, and others;

(9) And developed oral and written communication skills to present technical information to others with clarity and precision.
d) Technology Platforms / Tools and Languages:

(1) ESRI Platform
   (a) ArcGIS Desktop 10.x.
   (b) ArcGIS Server and Image Server
   (c) ArcObjects
   (d) ArcSDE Geodatabases with MS SQL
   (e) ArcIMS
   (f) ArcEngine
   (g) APIs for REST, SOAP and Silverlight

(2) Midrange Microsoft Platform: Client/Server
   (a) Visual Studio
   (b) VB.NET
   (c) C#.NET
   (d) MS Access
   (e) SQL Server and ADO.NET
   (f) Reporting Services (SQL Reporting)

(3) Midrange Microsoft Platform: Web Development
   (a) Visual Studio
   (b) ASP.NET (VB.NET and/or C#.NET )
   (c) HTML, JavaScript and CSS
   (d) MS Silverlight
   (e) Bing Maps
   (f) MS Expression Blend
   (g) SQL Server including SQL Reporting Services development and SQL Server Integration Services
   (h) MOSS 2010
   (i)
4) Business Analyst (two positions)

a) Role Description.

(1) Performs analyses of complex business operations and, using tools authorized by the Agency, develops requirements and specifications for the creation of client/server and/or Internet based computer systems including determining buy versus build options, preparing cost/benefit and feasibility studies, creating architectural prototypes and specifying conversion requirements for legacy systems;

(2) Creates implementation plans following the approved software development methodology;

(3) Acts as a project team leader on complex projects, offering technical supervision over lower level data processing staff in implementing a complex, integrated systems project;

(4) Independently plans, develops and implements techniques for gathering and interpreting data;

(5) Establishes and maintains professional relationships with pertinent process / system owners and other stakeholders in order to promote an effective partnership between the technical and business components of the Agency;

(6) Works with the management and staff to effectively implement assigned initiatives

(7) High degree of integrity, professionalism, and confidentiality associated with proprietary or other sensitive information.

b) Typical examples of work include:

(1) Investigates and analyzes assigned business processes to determine and document the specific system requirements;

(2) Utilizes system/functional decomposition, flowcharting, storyboarding, interviews and related system analysis techniques to create a detailed specification of complex work processes. This may include preparation of process flow diagrams, task descriptions, document and data flows, identification of decision points/criteria, workflow analysis and determination of process interdependencies;

(3) Investigates and documents business processes to determine computer system requirements;

(4) Prepares a description of complex systems;

(5) Develops work plans, cost estimates and analyzes alternative approaches;

(6) Makes recommendations on system construction options;

(7) Participates in the analysis and design of common infrastructure components used by development staff in the creation of software applications;

(8) Reviews existing business processes and systems to evaluate the applicability of new procedures and technologies to improve the effectiveness of Agency operations;
(9) Coordinates and reviews the development of work products required by the software development methodology;

(10) Acts as a project team leader, by organizing the activities of development staff and related personnel engaged in data processing functions.

(11) Serves as business/technical lead to identify potential project strategies, prepare resource plans, develop project schedules, prepare cost estimates, perform analyses of alternative solutions, identify best practices, and prepare concise recommendations regarding the best overall business approach.

c) Education, Experience and Skills:

(1) Bachelor’s degree in Computer Science, Management Information Systems or related fields (or equivalent knowledge, skill, experience and mental development);

(2) Five or more years of application analysis and design experience with an emphasis on mainframe, client/server development and/or Internet application development, comprehensive knowledge of procedures and techniques of conducting feasibility and design studies for conversion of legacy applications to client/server and/or Internet construction;

(3) Relational database design and modeling, graphical user interface design and development and technical implementation and optimization of client/server and/or Internet systems;

(4) Ability to research and identify technical solutions to business problems, an understanding of development methodologies, tools and techniques and the ability to make recommendations to management about these choices;

(5) Ability to obtain and maintain rapport and mutual respect with system users;

(6) Ability to effectively communicate in English both orally and in writing;

(7) Ability to exercise sound judgment in analyzing, appraising, evaluating and solving problems of a procedural, organizational, administrative and technical nature;

(8) Ability to exercise a high degree of initiative and resourcefulness in the development and completion of work projects;

(9) Ability to work in a team environment, share information proactively, and take direction from other team members;

(10) Ability to organize facts and findings, and to present such information in clear and logical form, orally, and through written media such as memoranda, summaries, systems narratives, flowcharts, workflow diagrams and systems and program specifications;

d) Technology Platforms / Tools and Languages:

1. Microsoft Office
2. Microsoft Visio
5) Application/Software Architect (one position)

a) Role Description. This role has direct responsibility for:

(1) Design, organization and assessment of enterprise database structures, assuring that all enterprise database applications fit into a single documented enterprise data model that minimizes duplication of data;

(2) Assuring logical data access and providing accurate and consistent synchronized information across all data storage environment by design and implementation of appropriate data structures;

(3) Ensuring the optimum design, quality, performance, integrity, and reliability of relational database applications through the application of data modeling principles, practices and software tools.

(4) Working independently and with direction management to effectively implement assigned initiatives.

(5) Working independently across multiple projects in reviewing/researching technologies and solutions.

(6) Working with BIP management to set standards that will be used across all projects.

The work is non-routine in that general policies or procedures must be adapted or applied and new methods devised to meet frequently changing or new situations. The individual in this position will be in frequent contact with individuals outside the immediate work environment and execute difficult planning and/or scheduling activities to accomplish goals and objectives, which may include coordinating the work with business analysts, application developers and database administrators as projects progress through the development lifecycles.

b) Typical examples of work include:

(1) Establish the overall data management strategy, enterprise data architecture and software development methodology for data access.

(2) Direct the design, development, review, documentation, and implementation of data models for enterprise-wide relational database applications with a special emphasis on assuring data integrity and access between major applications.

(3) Plan for collection methods, data cleansing, and normalization of enterprise quantitative and qualitative data to support decision making and reporting; assures the integrity of data, software, and applications.

(4) Develop policies and procedures related to the development, maintenance, and support of On-Line Analytical Processing (OLAP) and data warehouse applications;

(5) Plan capacity and growth of new and ongoing systems;

(6) Serve as primary focal point for resolving data model design problems;

(7) Analyze data model requirements from functional specifications;
(8) Coordinate data models, dictionaries and other database documentation across multiple enterprise applications;

(9) Monitor and manage external access to enterprise decision support systems;

(10) Train staff to support and utilize data access and decision support tools and techniques; and

(11) Researches and analyze new technological products supporting data modeling, data access and organization.

c) Education, Experience and Skills:

(1) Bachelor's degree in Computer Science, Management Information Systems or related field;

(2) Five years of progressively responsible technical experience in database systems design, modeling and deployment;

(3) Strong working knowledge of project management, software management; in-depth technical knowledge of database architectures, computer aided software engineering and data modeling processes and tools, software development methodologies and quality assurance;

(4) Experience specifically with current platform specific database architectures and associated development tools is highly desired;

(5) Ability to communicate effectively in English both orally and in writing;

(6) Ability to exercise sound judgment in analyzing, appraising, evaluating and solving problems of a procedural, organizational, administrative and technical nature;

(7) Ability to exercise a high degree of initiative and resourcefulness in the development and completion of work projects;

(8) Ability to work in a team environment, share information proactively, and assist other team members;

(9) Ability to organize facts and findings, and to present such information in clear and logical form, orally, and through written media such as "white papers," memoranda and summaries; and

(10) Ability to research and understand new technologies.

d) Technology Platforms / Tools and Languages:

(1) T-SQL Language
(2) SQL Management Studio
(3) SQL Server Reporting Services
(4) SQL Server Integration Services
(5) SQL Server Analysis Services
(6) OLAP Data Cube
(7) ERWin
(8) Embarcadero
(9) Visual Studio
(10) SharePoint
(11) Performance Point/ProClarity
1.2. **MILESTONES AND DELIVERABLES:** As provided in Appendix A, herein incorporated by reference. GIS Solutions Inc. proposal response to the Geographic Information System (GIS) Service Oriented Architecture RFP.

Consultants will report directly to the Bureau of Information Processing (BIP) Chief Information Officer (CIO) or designee. The Agency is bound by the State of Illinois IT Governance and Agency governance processes. Accordingly, Vendor’s staff and subcontractors must also follow all required governance processes. Below is a list of required IT Governance documents but is not all inclusive. Copies of these templates are available upon request.

- State of Illinois Charter
- State of Illinois Business Requirements
- State of Illinois Technical Requirements
- Department Close Out document

The BIP Project Management Office (PMO) will work with the Project Manager to determine required deliverables for each project supporting applications utilizing GIS and GIS architecture during the term of the contract. BIP PMO will work with Planning & Systems Section Chief in the Office of Planning & Programming in reviewing projects to be completed under this contract.

Vendor must provide HERE Map Data for Illinois DOT Enterprise License Agreement (ELA). The HERE Reseller network is a select group of technology service providers who resell HERE licenses in addition to their respective business services such as consulting and integration.

This section details the Enterprise License Agreement for the State of Illinois and our terminology around HERE Map data. The responding bidders should contact HERE to get the authorized annual updated MSRP price the State of Illinois ELA. The price will be provided in the standard HERE MSRP (Manufacturer’s Suggested Retail Price).

All of the license fees contained in the provided pricing will be MSRP (Manufacturer’s Suggested Retail Price). This means responders are permitted to apply their Reseller Discount to these license fees. The Reseller Discount is identified in your Reseller Agreement with HERE. If a bidder does not have an agreement with HERE please contact Keith Hangland, at Keith.Hangland@here.com to get the approved pricing and term sheet which will detail the terms of their agreement with HERE if they are the successful bidder.

The licensed use of HERE Data is governed strictly by the Reseller Agreement with HERE. For this ELA updates of HERE Data may be provided to Illinois DOT Quarterly. Quarterly updates (4 copies per year). After the initial annual copy, an update is provided to the State of Illinois 3 months after the initial sale, 6 months after the initial sale, and 9 months after the initial sale.

**ELA Products:**

1. **HERE Map Data** is a comprehensive portfolio of automotive-grade map data for efficiently locating, routing, optimising and analysing mobile and fixed assets. HERE Map Data includes a comprehensive set of enterprise-specific content. Examples include:
   a) Truck and Advanced Driver Assistance System (ADAS) features such as physical and legal road restrictions, road curvature, maximum heights, environmental zones and loading dock locations.
b) Point addressing with exact coordinates for over 300 million delivery locations, visual display points and micro point address data.

c) Postal code and census boundaries for selected geographic areas.

d) Toll cost data including information relating to vehicle type, number of axles, trailers and wheels.

e) Speed limit data including maximum values as well as conditional, unconditional and variable limits.

f) Fuel types (with EV), fuel prices, parking preview as well as truck POIs including fuel stations for trucks, extended lanes and lane markings, natural guidance, off road, signs, signals and warnings.

g) Extended Listings Content consists of the Core POIs plus certain points of interest for the United States and Canada in certain additional categories as and when made generally available by NT.

h) Census Boundaries consist of the boundaries of geographic areas defined by the United States Census Bureau and aligns it to the NAVTEQ map street centerlines.

i) Postal Code Boundaries Content consists of 2 layers, a 5 digit zip code polygon layer and a 5 digit zip code centroid layer.

j) Postal Code Points Content consists of a point representation of the US 9 digit full zip code.

2. **Point Addressing Content** enhances the accuracy of destination selection and precision of “to the door” arrival by providing points adjusted to the road for address locations.

**Optional New:**

Traffic Analytics is a data product that provides a record of traffic speed observations on roads. Based on the same GPS probe data as HERE Real-Time Traffic, it delivers historical traffic speeds for analytical applications. The Traffic Analytics data set is designed for greatest flexibility in analytical applications, preserving as much information as possible for the consumer of the data, processed and presented separately from real-time speed data. You access the Traffic Analytics data set by submitting queries that can be very focused on a few roads for a few minutes, or very large and broad.

1.3. **VENDOR / STAFF SPECIFICATIONS:** As provided in Appendix A, herein incorporated by reference. GIS Solutions Inc. proposal response to the Geographic Information System (GIS) Service Oriented Architecture RFP.

1.3.2 Any change in resource must be approved in writing by the Department. However, the parties agree that a formal amendment is not required.

1.4. **TRANSPORTATION AND DELIVERY:** All costs are included in the vendors pricing and no additional transportation and delivery costs will be provided as part of this contract.

1.5. **SUBCONTRACTING**

Subcontractors are allowed.

For purposes of this section, subcontractors are those specifically hired to perform all or part of the work covered by the contract. If subcontractors will be utilized, Vendor must identify below the names and addresses of all subcontractors it will be entering into a contractual agreement that has an annual value of $50,000 or more in the performance of this Contract, together with a description of the work to be performed by the subcontractor and the anticipated amount of money to the extent the information
is known that each subcontractor is expected to receive pursuant to the Contract. Attach additional sheets as necessary.

1.5.1. Will subcontractors be utilized? ☒ Yes ☐ No
   • Subcontractor Name: Electronic Knowledge Interchange (EKI)
     Amount to be paid: $598,500
     Address: 33 W Monroe St #1700, Chicago, IL 60603
     Description of work: Application/Software Architect
   • Subcontractor Name: Raptor Software
     Amount to be paid: $459,060
     Address: 27 Kensington Cir Bloomington, Illinois 61704-7602
     Description of work: .NET Applications Developer

1.5.2. All contracts with the subcontractors identified above must include the Standard Certifications completed and signed by the subcontractor.

1.5.3. If the annual value of any the subcontractors is more than $50,000, then the Vendor must provide to the State the Financial Disclosures and Conflicts of interest for that subcontractor.

1.5.4. If the subcontractor is registered in the Illinois Procurement Gateway (IPG) and the Vendor is using the subcontractor’s Standard Certifications or Financial Disclosures and Conflicts of Interest from the IPG, then the Vendor must also provide a completed Forms B for the subcontractor.

1.5.5. If at any time during the term of the Contract, Vendor adds or changes any subcontractors, Vendor will be required to promptly notify, in writing, the State Purchasing Officer or the Chief Procurement Officer of the names and addresses and the expected amount of money that each new or replaced subcontractor will receive pursuant to the Contract. Any subcontracts entered into prior to award of the Contract are done at the Vendor’s and subcontractor’s risk.

1.6. WHERE SERVICES ARE TO BE PERFORMED: Unless otherwise disclosed in this section all services shall be performed in the United States. If the Vendor performs the services purchased hereunder in another country in violation of this provision, such action may be deemed by the State as a breach of the contract by Vendor.

Vendor shall disclose the locations where the services required shall be performed and the known or anticipated value of the services to be performed at each location. If the Vendor received additional consideration in the evaluation based on work being performed in the United States, it shall be a breach of contract if the Vendor shifts any such work outside the United States.
- Location where services will be performed: IDOT Harry Hanley Building – Springfield, Illinois and IDOT District 1 Office in Schaumburg, Illinois

Value of services performed at this location: 90-100% of PM and BA work will be performed at Harry Hanley building. 70% of developers work will be performed at the Central Office. AGENCY is open to the utilization of developer resources off-site on a part-time basis. Off-site includes working from the District 1 Office in Schaumburg, Illinois
2. PRICING

2.1 TYPE OF PRICING: The Illinois Office of the Comptroller requires the State to indicate whether the contract value is firm or estimated at the time it is submitted for obligation. The total value of this contract is firm.

2.2 EXPENSES ALLOWED: Travel Requirements: The Vendor is responsible for travel costs of candidates to the assigned work location for oral reviews of resumes and candidate(s) arrival at the assigned work location.

Expenses are allowed as follows: In the event consultants are required by the AGENCY to work outside of their assigned work location on specific tasks, the consultant will be reimbursed for travel expenses based on the Agency travel policy in place at the time the travel occurs. The travel costs are covered under the Agency travel funds and are not reimbursable through this contract.

2.3 DISCOUNT: The State may receive a N/A % discount for payment within N/A days of receipt of correct invoice.

2.4 VENDOR'S PRICING: Attach additional pages if necessary.

2.4.1. Vendor's Price for the Initial Term: $7,491,047.00

<table>
<thead>
<tr>
<th>GIS Solutions Inc.</th>
<th>HR Rate Year 1 Base Hours Per Year</th>
<th>HR Rate Year 2 Base Hours Per Year</th>
<th>HR Rate Year 3 Base Hours Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Manager (1)</td>
<td>$7,454,323.50</td>
<td>$2,696,777.00</td>
<td>$2,537,525.00 Int Term $7,491,047.01</td>
</tr>
<tr>
<td>Senior .Net Developer (1)</td>
<td>$7,454,323.50</td>
<td>$2,696,777.00</td>
<td>$2,537,525.00 Int Term $7,491,047.01</td>
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<tr>
<td>.Net Developer (4)</td>
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<td>$2,696,777.00</td>
<td>$2,537,525.00 Int Term $7,491,047.01</td>
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<tr>
<td>Business Analyst (2)</td>
<td>$7,454,323.50</td>
<td>$2,696,777.00</td>
<td>$2,537,525.00 Int Term $7,491,047.01</td>
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<tr>
<td>Application/Software Architect</td>
<td>$7,454,323.50</td>
<td>$2,696,777.00</td>
<td>$2,537,525.00 Int Term $7,491,047.01</td>
</tr>
<tr>
<td>HERE Map Data</td>
<td>$7,454,323.50</td>
<td>$2,696,777.00</td>
<td>$2,537,525.00 Int Term $7,491,047.01</td>
</tr>
<tr>
<td>Point Addressing Content</td>
<td>$7,454,323.50</td>
<td>$2,696,777.00</td>
<td>$2,537,525.00 Int Term $7,491,047.01</td>
</tr>
<tr>
<td>Total for Vendor</td>
<td>$7,491,047.00</td>
<td>$7,491,047.00</td>
<td>$7,491,047.00</td>
</tr>
</tbody>
</table>

2.4.2. Renewal Compensation: If the contract is renewed, the price shall be at the same rate as for the initial term unless a different compensation or formula for determining the renewal compensation is stated in this section.

2.4.2.1. Agency/University Formula for Determining Renewal Compensation: N/A.

2.4.2.2. Vendor's Price for Renewal(s): $7,865,201.00

<table>
<thead>
<tr>
<th>GIS Solutions Inc.</th>
<th>HR Rate Year 4 Base Hours Per Year</th>
<th>HR Rate Year 5 Base Hours Per Year</th>
<th>HR Rate Year 6 Base Hours Per Year</th>
</tr>
</thead>
<tbody>
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<td>Project Manager (1)</td>
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<td>$2,579,061.00</td>
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<tr>
<td>Senior .Net Developer (2)</td>
<td>$2,621,455.00</td>
<td>$2,621,455.00</td>
<td>$2,621,455.00</td>
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<tr>
<td>.Net Developer (4)</td>
<td>$2,666,465.00</td>
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<td>$2,666,465.00</td>
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<tr>
<td>Business Analyst (3)</td>
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<td>$2,666,465.00</td>
<td>$2,666,465.00</td>
</tr>
<tr>
<td>Application/Software Architect</td>
<td>$2,666,465.00</td>
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<td>HERE Map Data</td>
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<tr>
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<td>$7,865,201.00</td>
</tr>
</tbody>
</table>

State of Illinois Chief Procurement Office
Contract
V. 15.2
### 2.5 OPTIONAL DATA (TRAFFIC ANALYTICS) AMOUNT:

<table>
<thead>
<tr>
<th>Traffic Analytics</th>
<th>Initial Term (3yrs)</th>
<th>$1,350,000.00</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Renewal Term (3yrs)</td>
<td>$1,350,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>740,000</td>
<td>740,000</td>
<td>740,000</td>
<td>2,220,000</td>
</tr>
</tbody>
</table>

**Note:** This pricing is provided as a bundle volume discount and requires purchase of the USA Products offer (HERE Map Data and Point Addressing Content) provided in PIB# 20379966. Pricing for the Traffic Analytic Data is population-based, and based on pricing for a geographical area with a population of 10 million.

**7(1)(b)**

<table>
<thead>
<tr>
<th>Date</th>
<th>7-27-2016</th>
</tr>
</thead>
</table>

Tim Johnson

**Traffic Analytics:** This data is an annual fee and requires a perpetual license (120% of a single year fee) after the initial term of 3 years.

**Traffic Analytics: Speed Data:** Pricing for Speed Data is an annual fee, and the data is to be delivered only to the center of a single year with historical data. The speed data is stored permanently by DOT.

**Traffic Analytics: Real-Time Traffic:** Pricing for Real-Time Traffic is an annual fee.

### 2.6 MAXIMUM AMOUNT: The total payments under this contract shall not exceed $18,056,248.00 without a formal amendment.
3. **TERM AND TERMINATION**

3.1 **TERM OF THIS CONTRACT:** This contract has an initial term of 9/16/2016 to 9/15/2019. If a start date is not identified, the term shall commence upon the last dated signature of the Parties.

3.1.1 In no event will the total term of the contract, including the initial term, any renewal terms and any extensions, exceed 10 years.

3.1.2 Vendor shall not commence billable work in furtherance of the contract prior to final execution of the contract except when permitted pursuant to 30 ILCS 500/20-80.

3.2 **RENEWAL:**

3.2.1 Any renewal is subject to the same terms and conditions as the original contract unless otherwise provided in the pricing section. The State may renew this contract for any or all of the option periods specified, may exercise any of the renewal options early, and may exercise more than one option at a time based on continuing need and favorable market conditions, when in the best interest of the State. The contract may neither renew automatically nor renew solely at the Vendor’s option.

3.2.2 Pricing for the renewal term(s), or the formula for determining price, is shown in the pricing section of this contract.

3.2.3 The State reserves the right to renew for a total of three (3) years in any one of the following manners:

3.2.3.1 One renewal covering the entire renewal allowance;

3.2.3.2 Individual one-year renewals up to and including the entire renewal allowance; or

3.2.3.3 Any combination of full or partial year renewals up to and including the entire renewal allowance.

3.3 **TERMINATION FOR CAUSE:** The State may terminate this contract, in whole or in part, immediately upon notice to the Vendor if: (a) the State determines that the actions or inactions of the Vendor, its agents, employees or subcontractors have caused, or reasonably could cause, jeopardy to health, safety, or property, or (b) the Vendor has notified the State that it is unable or unwilling to perform the contract.

If Vendor fails to perform to the State’s satisfaction any material requirement of this contract, is in violation of a material provision of this contract, or the State determines that the Vendor lacks the financial resources to perform the contract, the State shall provide written notice to the Vendor to cure the problem identified within the period of time specified in the State’s written notice. If not cured by that date the State may either: (a) immediately terminate the contract without additional written notice or (b) enforce the terms and conditions of the contract.

For termination due to any of the causes contained in this Section, the State retains its rights to seek any available legal or equitable remedies and damages.
3.4 **TERMINATION FOR CONVENIENCE:** The State may, for its convenience and with 30 days prior written notice to Vendor, terminate this contract in whole or in part and without payment of any penalty or incurring any further obligation to the Vendor.

3.4.1. The Vendor shall be entitled to compensation upon submission of invoices and proof of claim for supplies and services provided in compliance with this contract up to and including the date of termination.

3.5 **AVAILABILITY OF APPROPRIATION:** This contract is contingent upon and subject to the availability of funds. The State, at its sole option, may terminate or suspend this contract, in whole or in part, without penalty or further payment being required, if (1) the Illinois General Assembly or the federal funding source fails to make an appropriation sufficient to pay such obligation, or if funds needed are insufficient for any reason (30 ILCS 500/20-60), (2) the Governor decreases the Department's funding by reserving some or all of the Department's appropriation(s) pursuant to power delegated to the Governor by the Illinois General Assembly, or (3) the Department determines, in its sole discretion or as directed by the Office of the Governor, that a reduction is necessary or advisable based upon actual or projected budgetary considerations. Contractor will be notified in writing of the failure of appropriation or of a reduction or decrease.
4. STANDARD BUSINESS TERMS AND CONDITIONS

4.1 PAYMENT TERMS AND CONDITIONS:

4.1.1 Late Payment: Payments, including late payment charges, will be paid in accordance with the State Prompt Payment Act and rules when applicable. 30 ILCS 540; 74 Ill. Adm. Code 900. This shall be Vendor’s sole remedy for late payments by the State. Payment terms contained on Vendor’s invoices shall have no force and effect.

4.1.2 Minority Contractor Initiative: Any Vendor awarded a contract under Section 20-10, 20-15, 20-25 or 20-30 of the Illinois Procurement Code (30 ILCS 500) of $1,000 or more is required to pay a fee of $15. The Comptroller shall deduct the fee from the first check issued to the Vendor under the contract and deposit the fee in the Comptroller’s Administrative Fund. 15 ILCS 405/23.9.

4.1.3 Expenses: The State will not pay for supplies provided or services rendered, including related expenses, incurred prior to the execution of this contract by the Parties even if the effective date of the contract is prior to execution.

4.1.4 Prevailing Wage: As a condition of receiving payment Vendor must (i) be in compliance with the contract, (ii) pay its employees prevailing wages when required by law, (iii) pay its suppliers and subcontractors according to the terms of their respective contracts, and (iv) provide lien waivers to the State upon request. Examples of prevailing wage categories include public works, printing, janitorial, window washing, building and grounds services, site technician services, natural resource services, security guard and food services. The prevailing wages are revised by the Department of Labor and are available on the Department’s official website, which shall be deemed proper notification of any rate changes under this subsection. Vendor is responsible for contacting the Illinois Department of Labor to ensure understanding of prevailing wage requirements at 217-782-6206 or [http://www.state.il.us/agency/idol/index.htm](http://www.state.il.us/agency/idol/index.htm).

4.1.5 Federal Funding: This contract may be partially or totally funded with Federal funds. If federal funds are expected to be used, then the percentage of the good/service paid using Federal funds and the total Federal funds expected to be used will be provided in the award notice.

4.1.6 Invoicing: By submitting an invoice, Vendor certifies that the supplies or services provided meet all requirements of the contract, and the amount billed and expenses incurred are as allowed in the contract. Invoices for supplies purchased, services performed and expenses incurred through June 30 of any year must be submitted to the State no later than July 31 of that year; otherwise Vendor may have to seek payment through the Illinois Court of Claims. 30 ILCS 105/25. All invoices are subject to statutory offset. 30 ILCS 210.

4.1.6.1 Vendor shall not bill for any taxes unless accompanied by proof that the State is subject to the tax. If necessary, Vendor may request the applicable Agency/University state tax exemption number and federal tax exemption information.

4.1.6.2 Vendor shall invoice at the completion of the contract unless invoicing is tied in the contract to milestones, deliverables, or other invoicing requirements agreed to in the contract.
Send invoices to:

<table>
<thead>
<tr>
<th>Agency/University:</th>
<th>Illinois Department of Transportation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attn:</td>
<td>Tamara Wright</td>
</tr>
<tr>
<td>Address:</td>
<td>2300 S Dirksen Parkway, Room 107</td>
</tr>
<tr>
<td>City, State Zip</td>
<td>Springfield, IL 62764</td>
</tr>
</tbody>
</table>

4.2 **ASSIGNMENT:** This contract may not be assigned, transferred in whole or in part by Vendor without the prior written consent of the State.

4.3 **SUBCONTRACTING:** For purposes of this section, subcontractors are those specifically hired to perform all or part of the work covered by the contract. Vendor must receive prior written approval before use of any subcontractors in the performance of this contract. Vendor shall describe, in an attachment if not already provided, the names and addresses of all authorized subcontractors to be utilized by Vendor in the performance of this contract, together with a description of the work to be performed by the subcontractor and the anticipated amount of money that each subcontractor is expected to receive pursuant to this contract. If required, Vendor shall provide a copy of any subcontracts within 15 days after execution of this contract. All subcontracts must include the same certifications that Vendor must make as a condition of this contract. Vendor shall include in each subcontract the subcontractor certifications as shown on the Standard Subcontractor Certification form available from the State. If at any time during the term of the Contract, Vendor adds or changes any subcontractors, then Vendor must promptly notify, by written amendment to the Contract, the State Purchasing Officer or the Chief Procurement Officer of the names and addresses and the expected amount of money that each new or replaced subcontractor will receive pursuant to the Contract.

4.4 **AUDIT/RETENTION OF RECORDS:** Vendor and its subcontractors shall maintain books and records relating to the performance of the contract or subcontract and necessary to support amounts charged to the State pursuant the contract or subcontract. Books and records, including information stored in databases or other computer systems, shall be maintained by the Vendor for a period of three years from the later of the date of final payment under the contract or completion of the contract, and by the subcontractor for a period of three years from the later of final payment under the term or completion of the subcontract. If federal funds are used to pay contract costs, the Vendor and its subcontractors must retain its records for five years. Books and records required to be maintained under this section shall be available for review or audit by representatives of: the procuring Agency/University, the Auditor General, the Executive Inspector General, the Chief Procurement Officer, State of Illinois internal auditors or other governmental entities with monitoring authority, upon reasonable notice and during normal business hours. Vendor and its subcontractors shall cooperate fully with any such audit and with any investigation conducted by any of these entities. Failure to maintain books and records required by this section shall establish a presumption in favor of the State for the recovery of any funds paid by the State under the contract for which adequate books and records are not available to support the purported disbursement. The Vendor or subcontractors shall not impose a charge for audit or examination of the Vendor’s books and records. 30 ILCS 500/20-65.

4.5 **TIME IS OF THE ESSENCE:** Time is of the essence with respect to Vendor’s performance of this contract. Vendor shall continue to perform its obligations while any dispute concerning the contract is being resolved unless otherwise directed by the State.
4.6 **NO WAIVER OF RIGHTS:** Except as specifically waived in writing, failure by a Party to exercise or enforce a right does not waive that Party's right to exercise or enforce that or other rights in the future.

4.7 **FORCE MAJEURE:** Failure by either Party to perform its duties and obligations will be excused by unforeseeable circumstances beyond its reasonable control and not due to its negligence, including acts of nature, acts of terrorism, riots, labor disputes, fire, flood, explosion, and governmental prohibition. The non-declaring Party may cancel the contract without penalty if performance does not resume within 30 days of the declaration.

4.8 **CONFIDENTIAL INFORMATION:** Each Party, including its agents and subcontractors, to this contract may have or gain access to confidential data or information owned or maintained by the other Party in the course of carrying out its responsibilities under this contract. Vendor shall presume all information received from the State or to which it gains access pursuant to this contract is confidential. Vendor information, unless clearly marked as confidential and exempt from disclosure under the Illinois Freedom of Information Act, shall be considered public. No confidential data collected, maintained, or used in the course of performance of the contract shall be disseminated except as authorized by law and with the written consent of the disclosing Party, either during the period of the contract or thereafter. The receiving Party must return any and all data collected, maintained, created or used in the course of the performance of the contract, in whatever form it is maintained, promptly at the end of the contract, or earlier at the request of the disclosing Party, or notify the disclosing Party in writing of its destruction. The foregoing obligations shall not apply to confidential data or information lawfully in the receiving Party's possession prior to its acquisition from the disclosing Party; received in good faith from a third Party not subject to any confidentiality obligation to the disclosing Party; now is or later becomes publicly known through no breach of confidentiality obligation by the receiving Party; or is independently developed by the receiving Party without the use or benefit of the disclosing Party's confidential information.

4.9 **USE AND OWNERSHIP:** All work performed or supplies created by Vendor under this contract, whether written documents or data, goods or deliverables of any kind, shall be deemed work for hire under copyright law and all intellectual property and other laws, and the State of Illinois is granted sole and exclusive ownership to all such work, unless otherwise agreed in writing. Vendor hereby assigns to the State all right, title, and interest in and to such work including any related intellectual property rights, and/or waives any and all claims that Vendor may have to such work including any so-called "moral rights" in connection with the work. Vendor acknowledges the State may use the work product for any purpose. Confidential data or information contained in such work shall be subject to confidentiality provisions of this contract.

4.10 **INDEMNIFICATION AND LIABILITY:** The Vendor shall indemnify and hold harmless the State of Illinois, its agencies, officers, employees, agents and volunteers from any and all costs, demands, expenses, losses, claims, damages, liabilities, settlements and judgments, including in-house and contracted attorneys' fees and expenses, arising out of: (a) any breach or violation by Vendor of any of its certifications, representations, warranties, covenants or agreements; (b) any actual or alleged death or injury to any person, damage to any property or any other damage or loss claimed to result in whole or in part from Vendor's negligent performance; (c) any act, activity or omission of Vendor or any of its
employees, representatives, subcontractors or agents; or (d) any actual or alleged claim that the services or goods provided under the contract infringing, misappropriating, or otherwise violating any intellectual property (patent, copyright, trade secret, or trademark) rights of a third party. Neither Party shall be liable for incidental, special, consequential or punitive damages.

4.11 INSURANCE: Vendor shall, at all times during the term and any renewals maintain and provide a Certificate of Insurance naming the State as additionally insured for all required bonds and insurance. Certificates may not be modified or canceled until at least 30 days’ notice has been provided to the State. Vendor shall provide: (a) General Commercial Liability occurrence form in amount of $1,000,000 per occurrence (Combined Single Limit Bodily Injury and Property Damage) and $2,000,000 Annual Aggregate; (b) Auto Liability, including Hired Auto and Non-owned Auto, (Combined Single Limit Bodily Injury and Property Damage) in amount of $1,000,000 per occurrence; and (c) Worker’s Compensation Insurance in amount required by law. Insurance shall not limit Vendor’s obligation to indemnify, defend, or settle any claims.

4.12 INDEPENDENT CONTRACTOR: Vendor shall act as an independent contractor and not an agent or employee of, or joint venture with the State. All payments by the State shall be made on that basis.

4.13 SOLICITATION AND EMPLOYMENT: Vendor shall not employ any person employed by the State during the term of this contract to perform any work under this contract. Vendor shall give notice immediately to the Agency’s director if Vendor solicits or intends to solicit State employees to perform any work under this contract.

4.14 COMPLIANCE WITH THE LAW: The Vendor, its employees, agents, and subcontractors shall comply with all applicable federal, state, and local laws, rules, ordinances, regulations, orders, federal circulars and all license and permit requirements in the performance of this contract. Vendor shall be in compliance with applicable tax requirements and shall be current in payment of such taxes. Vendor shall obtain at its own expense, all licenses and permissions necessary for the performance of this contract.

4.15 BACKGROUND CHECK: Whenever the State deems it reasonably necessary for security reasons, the State may conduct, at its expense, criminal and driver history background checks of Vendor’s and subcontractors officers, employees or agents. Vendor or subcontractor shall reassign immediately any such individual who, in the opinion of the State, does not pass the background check.

4.16 APPLICABLE LAW: This contract shall be construed in accordance with and is subject to the laws and rules of the State of Illinois. The Department of Human Rights’ Equal Opportunity requirements (44 Ill. Adm. Code 750) are incorporated by reference. Any claim against the State arising out of this contract must be filed exclusively with the Illinois Court of Claims. 705 ILCS 505/1. The State shall not enter into binding arbitration to resolve any contract dispute. The State of Illinois does not waive sovereign immunity by entering into this contract. The official text of cited statutes is incorporated by reference. An unofficial version can be viewed at (www.ilga.gov/legislation/ilcs/ilcs.asp).

4.17 ANTI-TRUST ASSIGNMENT: If Vendor does not pursue any claim or cause of action it has arising under federal or state antitrust laws relating to the subject matter of the contract, then upon request of the
Illinois Attorney General, Vendor shall assign to the State rights, title and interest in and to the claim or cause of action.

4.18 CONTRACTUAL AUTHORITY: The Agency that signs for the State of Illinois shall be the only State entity responsible for performance and payment under the contract. When the Chief Procurement Officer or authorized designee signs in addition to an Agency, they do so as approving officer and shall have no liability to Vendor. When the Chief Procurement Officer or authorized designee, or State Purchasing Officer signs a master contract on behalf of State agencies, only the Agency that places an order with the Vendor shall have any liability to Vendor for that order.

4.19 NOTICES: Notices and other communications provided for herein shall be given in writing by registered or certified mail, return receipt requested, by receipted hand delivery, by courier (UPS, Federal Express or other similar and reliable carrier), by e-mail, or by fax showing the date and time of successful receipt. Notices shall be sent to the individuals who signed the contract using the contact information following the signatures. Each such notice shall be deemed to have been provided at the time it is actually received. By giving notice, either Party may change the contact information.

4.20 MODIFICATIONS AND SURVIVAL: Amendments, modifications and waivers must be in writing and signed by authorized representatives of the Parties. Any provision of this contract officially declared void, unenforceable, or against public policy, shall be ignored and the remaining provisions shall be interpreted, as far as possible, to give effect to the Parties’ intent. All provisions that by their nature would be expected to survive, shall survive termination. In the event of a conflict between the State’s and the Vendor’s terms, conditions and attachments, the State’s terms, conditions and attachments shall prevail.

4.21 PERFORMANCE RECORD / SUSPENSION: Upon request of the State, Vendor shall meet to discuss performance or provide contract performance updates to help ensure proper performance of the contract. The State may consider Vendor's performance under this contract and compliance with law and rule to determine whether to continue the contract, suspend Vendor from doing future business with the State for a specified period of time, or to determine whether Vendor can be considered responsible on specific future contract opportunities.

4.22 FREEDOM OF INFORMATION ACT: This contract and all related public records maintained by, provided to or required to be provided to the State are subject to the Illinois Freedom of Information Act (FOIA) (50 ILCS 140) notwithstanding any provision to the contrary that may be found in this contract.

4.23 SCHEDULE OF WORK: Any work performed on State premises shall be done during the hours designated by the State and performed in a manner that does not interfere with the State and its personnel.

4.24 WARRANTIES FOR SUPPLIES AND SERVICES:

4.24.1. Vendor warrants that the supplies furnished under this contract will: (a) conform to the standards, specifications, drawing, samples or descriptions furnished by the State or furnished by the Vendor and agreed to by the State, including but not limited to all specifications attached
as exhibits hereto; (b) be merchantable, of good quality and workmanship, and free from defects for a period of twelve months or longer if so specified in writing, and fit and sufficient for the intended use; (c) comply with all federal and state laws, regulations and ordinances pertaining to the manufacturing, packing, labeling, sale and delivery of the supplies; (d) be of good title and be free and clear of all liens and encumbrances and; (e) not infringe any patent, copyright or other intellectual property rights of any third party. Vendor agrees to reimburse the State for any losses, costs, damages or expenses, including without limitations, reasonable attorney's fees and expenses, arising from failure of the supplies to meet such warranties.

4.24.2. Vendor shall insure that all manufacturers' warranties are transferred to the State and shall provide a copy of the warranty. These warranties shall be in addition to all other warranties, express, implied or statutory, and shall survive the State's payment, acceptance, inspection or failure to inspect the supplies.

4.24.3. Vendor warrants that all services will be performed to meet the requirements of the contract in an efficient and effective manner by trained and competent personnel. Vendor shall monitor performances of each individual and shall reassign immediately any individual who is not performing in accordance with the contract, who is disruptive or not respectful of others in the workplace, or who in any way violates the contract or State policies.

4.25 REPORTING, STATUS AND MONITORING SPECIFICATIONS: Vendor shall immediately notify the State of any event that may have a material impact on Vendor's ability to perform the contract.

4.26 EMPLOYMENT TAX CREDIT: Vendors who hire qualified veterans and certain ex-offenders may be eligible for tax credits. 35 ILCS 5/216, 5/217. Please contact the Illinois Department of Revenue (telephone #: 217-524-4772) for information about tax credits.
5. SUPPLEMENTAL PROVISIONS

5.1. STATE SUPPLEMENTAL PROVISIONS

☐ Agency/University Definitions

Click here to enter text.

☒ Required Federal Clauses, Certifications and Assurances

FEDERAL FUNDING:

CERTIFICATIONS AND ASSURANCES REQUIRED BY THE U.S. OFFICE OF MANAGEMENT AND BUDGET (OMB) (SF-424B AND SF-424D). As required by OMB, the Vendor certifies that it:

(a) Has the legal authority and the institutional, managerial, and financial capability (including funds sufficient to pay the non-federal share of project cost) to ensure proper planning, management, and completion of the project;

(b) Will give the U.S. Secretary of Transportation, the Comptroller General of the United States, and, if appropriate, the state, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives;

(c) Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest or personal gain;

(d) Will initiate and complete the work within the applicable project time periods;

(e) Will comply with all applicable Federal statutes relating to nondiscrimination including, but not limited to:

• Title VI of the Civil Rights Act, 42 U.S.C. 2000d, which prohibits discrimination on the basis of race, color, or national origin;

• Title IX of the Education Amendments of 1972, as amended, 20 U.S.C. 1681 through 1683, and 1685 through 1687, and U.S. DOT regulations, "Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance," 49 CFR Part 25, which prohibit discrimination on the basis of sex;
- Section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. 794, which prohibits discrimination on the basis of handicap;

- The Age Discrimination Act of 1975, as amended, 42 U.S.C. 6101 through 6107, which prohibits discrimination on the basis of age;


- The Public Health Service Act of 1912, as amended, 42 U.S.C. 290dd-2, related to confidentiality of alcohol and drug abuse patient records;

- Title VIII of the Civil Rights Act, 42 U.S.C. 3601 et seq., relating to nondiscrimination in the sale, rental, or financing of housing;

- Any other nondiscrimination provisions in the specific statutes under which Federal assistance for the project may be provided including, but not limited, to 49 U.S.C. 5332, which prohibits discrimination on the basis of race, color, creed, national origin, sex, or age, and prohibits discrimination in employment or business opportunity, and Section 1101(b) of the Transportation Equity Act for the 21st Century, 23 U.S.C. 101 note, which provides for participation of disadvantaged business enterprises in FTA programs; and

- Any other nondiscrimination statute[s] that may apply to the project.

(f) Will comply with all federal environmental standards applicable to the project, including but not limited to:

- Institution of environmental quality control measures under the National Environmental Policy Act of 1969 and Executive Order 11514;

- Notification of violating facilities pursuant to Executive Order 11738;

- Protection of wetlands pursuant to Executive Order 11990;

- Evaluation of flood hazards in floodplains in accordance with Executive Order 11988;

- Assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972, 16 U.S.C. 1451 et seq.;

- Conformity of federal Actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended, 42 U.S.C. 7401 et seq.;
• Protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended;

• Protection of endangered species under the Endangered Species Act of 1973, as amended;

• The Wild and Scenic Rivers Act of 1968, 16 U.S.C. 1271 et seq., which relates to protecting components or potential components of the national wild scenic rivers system.

(g) Will comply with all other federal statutes applicable to the project, including but not limited to:

• Title II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, which provides for fair and equitable treatment of persons displaced whose property is acquired as a result of federal or federally-assisted programs;

• The Hatch Act, 5 U.S.C. 1501-1508 and 7324-7328, which limits the political activities of employees whose principal employment activities are funded in whole or in part with federal funds;

• The Flood Disaster Protection Act of 1973, which requires the purchase of flood insurance in certain instances;

• Section 106 of the National Historic Preservation Act of 1966, as amended, 16 U.S.C. 470;

• Executive Order 11593, which relates to identification and protection of historic properties;

• The Archaeological and Historic Preservation Act of 1974, 16 U.S.C. 469a-1 et seq.;

• The Laboratory Animal Welfare Act of 1966, as amended, 7 U.S.C. 2131 et seq., which relates to the care, handling, and treatment of warm-blooded animals held for research, teaching, or other activities supported by a federal award of assistance;

• The Lead-Based Paint Poisoning Prevention Act, 42 U.S.C. 4801 et seq., which relates to prohibiting the use of lead-based paint in construction or rehabilitation of residence structures;


CERTIFICATION REGARDING LOBBYING: As required by the United States Department of Transportation (U.S. DOT) regulations, "New Restrictions on Lobbying," at 49 CFR 20.110, the Vendor's authorized representative certifies to the best of his or her knowledge and belief that for each contract for federal assistance exceeding $100,000:

(a) No federal appropriated funds have been or will be paid by or on behalf of the Vendor to any person to influence or attempt to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress regarding the award of federal
assistance, or the extension, continuation, renewal, amendment, or modification of any federal assistance agreement; and (b) if any funds other than federal appropriated funds have been or will be paid to any person to influence or attempt to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any application for federal assistance, the Vendor assures that it will complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," including information required by the instructions accompanying the form, which form may be amended to omit such information as authorized by 31 U.S.C. 1352. (c) The language of this certification shall be included in the award documents for all sub awards at all tiers (including subcontracts, sub grants, and contracts under grants, loans, and cooperative agreements).

(b) The Vendor understands that this certification is a material representation of fact upon which reliance is placed and that submission of this certification is a prerequisite for providing federal assistance for a transaction covered by 31 U.S.C. 1352. The Vendor also understands that any person who fails to file a required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

CONTROL OF PROPERTY: Vendor certifies that the control, utilization and disposition of property or equipment acquired using federal funds is maintained according to the provisions of A-102 Common Rule.

COST PRINCIPLES: The cost principles of this Contract are governed by the cost principles found in Title 48, Code of Federal Regulations, Subpart 31, as amended; and all costs included in this Contract are allowable under Title 48, Code of Federal Regulations, Part 31, as amended.


DEBARMENT: Vendor shall comply with Debarment provisions as contained in 2 Code of Federal Regulations, 1200 as amended. Vendor certifies that to the best of its knowledge and belief, Vendor and Vendor’s principals:

(a) are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any federal Agency/Buyer or agency;
(b) within a three-year period preceding this Contract have not been convicted of or had a civil judgment rendered against it for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (federal, state or local) transaction or contract under a public transaction, violation of federal or state anti-trust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;

(c) are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any of the offenses enumerated in subsection (b), above;

(d) have not within a three-year period preceding this Agreement had one or more public transactions (federal, state or local) terminated for cause or default.

The inability of a prospective Vendor to certify to the certification in this section will not necessarily result in denial of participation in this Contract. The prospective Vendor shall submit an explanation of why it cannot provide the certification in this section. This certification is a material representation of fact upon which reliance was placed when the Agency/Buyer determined whether to enter into this transaction. If it is later determined that Vendor knowingly rendered an erroneous certification, in addition to other remedies available to the federal government, the Agency/Buyer may terminate this Contract for cause. The Vendor shall provide immediate written notice to the Agency/Buyer if at any time the Vendor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. The terms “covered transaction,” “debarred,” “suspended,” “ineligible,” “lower tier covered transaction,” “participant,” “person,” “primary covered transaction,” “principal,” “proposal,” and “voluntarily excluded,” as used in this Section shall have the meaning set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549.

The Vendor agrees that it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible or voluntarily excluded from participation in this covered transaction, unless authorized, in writing, by the Agency/Buyer. The Vendor agrees that it will include the clause titled “Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction,” provided by the Agency/Buyer, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. The Vendor may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible or voluntarily excluded from the covered transaction, unless Vendor knows the certification is erroneous. Vendor may decide the method and frequency by which it determines the eligibility of its principals. Each Vendor may, but is not required to, check the Non-procurement List. If a Vendor knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation, in addition to other remedies available to the federal government, the Agency/Buyer may terminate this Contract for cause or default.
Nothing contained in this section shall be construed to require establishment of a system of records in order to render in good faith the certification required by this section. The knowledge and information of a Vendor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

DISADVANTAGED BUSINESS ENTERPRISE ASSURANCE: In accordance with 49 CFR 26.13(a), as amended, the Vendor assures that it shall not discriminate on the basis of race, color, national origin, or sex in the implementation of the project and in the award and performance of any third party contract, or subagreement supported with Federal assistance derived from the U.S. DOT or in the administration of its Disadvantaged Business Enterprise (DBE) program or the requirements of 49 CFR Part 26, as amended. The Vendor assures that it shall take all necessary and reasonable steps set forth in 49 CFR Part 26, as amended, to ensure nondiscrimination in the award and administration of all third party contracts and sub agreements supported with Federal assistance derived from the U.S. DOT.

The Vendor’s DBE program, as required by 49 CFR Part 26, as amended, will be incorporated by reference and made a Part of this Contract for any Federal assistance awarded by FTA or U.S. DOT. Implementation of this DBE program is a legal obligation of the Vendor, and failure to carry out its terms shall be treated as a violation of the Contract. Upon notification by the Federal Government or the Agency/Buyer to the Vendor of its failure to implement its approved DBE program, the U.S. DOT may impose sanctions as provided for under 49 CFR Part 26, as amended, and may in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001, as amended, and/or the Program Fraud Remedies Act, 31 U.S.C. 3801 et seq., as amended.

DRUG FREE WORKPLACE: The Vendor certifies that it will comply with the requirements of the federal Drug Free Workplace Act, 41 U.S.C.A. 702 as amended and 49 C.F.R. 32, Subpart B, including Appendix C as amended.

INTELLIGENT TRANSPORTATION SYSTEMS PROGRAM: As used in this assurance, the term Intelligent Transportation Systems (ITS) project is defined to include any project that in whole or in part finances the acquisition of technologies or systems of technologies that provide or significantly contribute to the provision of one or more ITS user services as defined in the “National ITS Architecture.”

(a) In accordance with Section 5206(e) of TEA-21, 23 U.S.C. 502 note, the Vendor assures it will comply with all applicable requirements of Section V (Regional ITS Architecture and Section VI (Project Implementation) of FTA Notice, "FTA National ITS Architecture Policy on Transit Projects," at 66 Fed. Reg. 1455 et seq., January 8, 2001, and other FTA requirements that may be issued in connection with any ITS project it undertakes financed with Highway Trust Funds (including funds from the mass transit account) or funds made available for the Intelligent Transportation Systems Program authorized by TEA-21, title V, subtitle C, 23 U.S.C. 502.
(b) With respect to any ITS project financed with Federal assistance derived from a source other than Highway Trust Funds (including funds from the Mass Transit Account) or TEA-21, title V, subtitle C, 23 U.S.C. 502 note, the Vendor assures that it will use its best efforts to ensure that any ITS project it undertakes will not preclude interface with other intelligent transportation systems in the Region.

NONDISCRIMINATION ASSURANCE: As required by 49 U.S.C. 5332 (which prohibits discrimination on the basis of race, color, creed, national origin, sex, or age, and prohibits discrimination in employment or business opportunity), Title VI of the Civil Rights Act of 1964, as amended, 42 U.S.C. 2000d, and U.S. DOT regulations, "Nondiscrimination in Federally-Assisted Programs of the Department of Transportation—Effectuation of Title VI of the Civil Rights Act," 49 CFR Part 21 at 21.7, the Vendor assures that it will comply with all requirements of 49 CFR Part 21; FTA Circular 4702.1A, "Title VI and Title VI-Dependent Guidelines for Federal Transit Administration Recipients," and other applicable directives, so that no person in the United States, on the basis of race, color, national origin, creed, sex, or age will be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination in any program or activity (particularly in the level and quality of transportation services and transportation-related benefits) for which the Vendor receives federal assistance.

Specifically, during the period in which federal assistance is extended to the project, or project property is used for a purpose for which the federal assistance is extended or for another purpose involving the provision of similar services or benefits, or as long as the Vendor retains ownership or possession of the project property, whichever is longer, the Vendor assures that:

(a) Each project will be conducted, property acquisitions will be undertaken, and project facilities will be operated in accordance with all applicable requirements of 49 U.S.C. 5332 and 49 CFR Part 21, and understands that this assurance extends to its entire facility and to facilities operated in connection with the project.

(b) It will promptly take the necessary actions to effectuate this assurance, including notifying the public that complaints of discrimination in the provision of transportation-related services or benefits may be filed with U.S. DOT or FTA. Upon request by U.S. DOT or FTA, the Vendor assures that it will submit the required information pertaining to its compliance with these requirements.

(c) It will include in each sub agreement, property transfer agreement, third party contract, third party subcontract, or participation agreement adequate provisions to extend the requirements of 49 U.S.C. 5332 and 49 CFR Part 21 to other parties involved therein including any sub recipient, transferee, third party contractor, third party subcontractor at any level, successor in interest, or any other participant in the project.

(d) Should it transfer real property, structures, or improvements financed with federal assistance to another party, any deeds and instruments recording the transfer of that property shall contain a covenant running with the land assuring nondiscrimination for the period during which the property is used for a purpose for which the federal assistance is extended or for another purpose involving the provision of similar services or benefits.
(e) The United States has a right to seek judicial enforcement with regard to any matter arising under the Act, regulations, and this assurance.

(f) It will make any changes in its 49 U.S.C. 5332 and Title VI implementing procedures as U.S. DOT or FTA may request.

NONDISCRIMINATION ON THE BASIS OF DISABILITY: As required by U.S. DOT regulations, "Nondiscrimination on the Basis of Handicap in Programs and Activities Receiving or Benefiting from Federal Financial Assistance," at 49 CFR 27.9, the Vendor assures that, as a condition to the approval or extension of any Federal assistance awarded by FTA to construct any facility, obtain any rolling stock or other equipment, undertake studies, conduct research, or to participate in or obtain any benefit from any program administered by FTA, no otherwise qualified person with a disability shall be, solely by reason of that disability, excluded from participation in, denied the benefits of, or otherwise subjected to discrimination in any program or activity receiving or benefiting from Federal assistance administered by the FTA or any entity within U.S. DOT. The Vendor assures that project implementation and operations so assisted will comply with all applicable requirements of U.S. DOT regulations implementing the Rehabilitation Act of 1973, as amended, 29 U.S.C. 794, et seq., and the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. 12101 et seq., and implementing U.S. DOT regulations at 49 CFR parts 27, 37, and 38, and any applicable regulations and directives issued by other Federal Agency/Buyers or agencies.

PROCUREMENT COMPLIANCE CERTIFICATION: The Vendor certifies that its procurements and procurement system will comply with all applicable third party procurement requirements of Federal laws, executive orders, regulations, and FTA directives, and requirements, as amended and revised, as well as other requirements FTA may issue including FTA Circular 4220.1F, "Third Party Contracting Guidance," and any revisions thereto, to the extent those requirements are applicable. The Vendor certifies that it will include in its contracts financed in whole or in part with FTA assistance all clauses required by Federal laws, executive orders, or regulations, and will ensure that each sub recipient and each contractor will also include in its sub agreements and its contracts financed in whole or in part with FTA assistance all applicable clauses required by Federal laws, executive orders, or regulations.

STANDARD ASSURANCES: The Vendor assures that it will comply with all applicable federal statutes, regulations, executive orders, Federal Transit Administration (FTA) circulars, Federal Aviation Administration (FAA) Orders and Circulars, and other federal requirements in carrying out any project supported by federal funds. The Vendor recognizes that federal laws, regulations, policies, and administrative practices may be modified from time to time and those modifications may affect project implementation. The Vendor agrees that the most recent federal requirements will apply to the project.
FALSE OR FRAUDULENT STATEMENTS OR CLAIMS: The Vendor acknowledges that if it makes a false, fictitious, or fraudulent claim, statement, submission, or certification to the Government in connection with this Project, the Government reserves the right to impose on the VENDOR the penalties of 18 U.S.C. Section 1001, 49 U.S.C. Section 5307, 31 U.S.C. Section 3801, and 49 CFR Part 31, as the Government may deem appropriate. VENDOR agrees to include this clause in all state and federal assisted contracts and subcontracts.

CHANGED CONDITIONS AFFECTING PERFORMANCE: The Vendor shall immediately notify the Department of any change in conditions or local law, or of any other event which may significantly affect its ability to perform the Project in accordance with the provisions of this Agreement.

THIRD PARTY DISPUTES OR BREACHES: The Vendor agrees to pursue all legal rights available to it in the enforcement or defense of any third party contract, and FTA and the Department reserve the right to concur in any compromise or settlement of any third party contract claim involving the Vendor. The Vendor will notify FTA and the Department of any current or prospective major dispute pertaining to any third party contract. If the Vendor seeks to name the Government as a party to the litigation, the Vendor agrees to inform both FTA and the Department before doing so. The Government retains a right to a proportionate share of any proceeds derived from any third party recovery. Unless permitted otherwise by the Government, the Vendor will credit the Project Account with any liquidated damages recovered. Nothing herein is intended to nor shall it waive FTA's or the Department's immunity to suit.


CLEAN AIR: For all contracts and subcontracts exceeding $100,000, Vendor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7601 – 7671q).

CLEAN WATER: For all contracts and subcontracts exceeding $100,000, Vendor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Water Pollution Control Act, 33 U.S.C. Section 1251 et seq.

NON-WAIVER: The Vendor agrees that in no event shall any action or inaction on behalf of or by the Department, including the making by the Department of any payment under this Agreement, constitute or be construed as a waiver by the Department of any breach by the
Vendor of any terms of this Agreement or any default on the part of the Vendor which may then exist; and any action, including the making of a payment by the Department, while any such breach or default shall exist, shall in no way impair or prejudice any right or remedy available to the Department in respect to such breach or default. The remedies available to the Department under this Agreement are cumulative and not exclusive. The waiver or exercise of any remedy shall not be construed as a waiver of any other remedy available hereunder or under general principles of law or equity.

ENERGY CONSERVATION: To the extent applicable, the Vendor and its third party contractors at all tiers shall comply with mandatory standards and policies relating to energy efficiency that are contained in applicable state energy conservation plans issued in compliance with the Energy Policy and Conservation Act, 42 U.S.C. Section 6321 et seq.

ELIGIBILITY FOR EMPLOYMENT IN THE UNITED STATES: The Vendor shall complete and keep on file, as appropriate, Immigration and Naturalization Service Employment Eligibility Forms (I-9). These forms shall be used by the Vendor to verify that persons employed by the Vendor are eligible to work in the United States.

BUY AMERICAN ACT: In accordance with the Buy American Act, 41 U.S.C. 10a-10d, only steel, iron and manufactured products produced in the United States may be purchased with federal funds unless an exception under section b(2) or b(3) of the Buy American Act applies. Clear justification for the purchase of non-domestic items must be in the form of a waiver request submitted to and approved by the federal government.

All of the requirements listed above apply to a federally funded project. The Vendor agrees to include these requirements in each contract and subcontract financed in whole or in part with federal assistance.

☐ Public Works Requirements (construction and maintenance of a public work) 820 ILCS 130/4.

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☐ Prevailing Wage (janitorial cleaning, window cleaning, building and grounds, site technician, natural resources, food services, and security services, if valued at more than $200 per month or $2,000 per year or printing) 30 ILCS 500/25-60.

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Agency/University Specific Terms and Conditions

AGENTS AND EMPLOYEES:

Vendor shall be responsible for the negligent acts and omissions of its agents, employees and subcontractors in their performance of Vendor's duties under this Contract. Vendor represents that it shall utilize the services of individuals skilled in the profession for which they will be used in performing services hereunder. In the event that the Agency/Buyer determines that any individual performing services for Vendor hereunder is not providing such skilled services, it shall promptly so notify Vendor and Vendor shall replace that individual.

PUBLICITY:

Vendor shall not, in any advertisement or any other type of solicitation for business, state, indicate or otherwise imply that it is under contract to the Agency/Buyer nor shall the Agency/Buyer's name be used in any such advertisement or solicitation without prior written approval except as required by law.

CONSULTATION:

Vendor shall keep the Agency/Buyer fully informed as to the progress of matters covered by this Contract. Where time permits and Vendor is not otherwise prohibited from so doing, Vendor shall offer the Agency/Buyer the opportunity to review relevant documents prior to filing with any public body or adversarial party.

ACCOUNTING:

The Vendor shall be responsible for utilizing the appropriate provisions contained in Title 48, Code of Federal Regulations, subpart 31, as amended (Contract Cost Principles and Procedures) with respect to all costs associated with supplies and/or services the Vendor provides to the Agency/Buyer pursuant to the terms of this contract. The Vendor shall also maintain a proper accounting system in accordance with generally accepted accounting standards or Agency/Buyer directives. Information regarding the cost principles in Title 48, Code or Federal Regulations, subpart 31 (Contract Cost Principles and Procedures) may be viewed at the following website: http://www.ecfr.gov/cgi-bin/text-idx?SID=cbb7305b43e022815d30aeaf7b642744&node=pt48.1.31&rgn=div5

THIRD PARTY BENEFICIARIES:

There are no third party beneficiaries to this Contract. This Contract is intended only to benefit the State, the Agency/Buyer and the Vendor.
SUCCESSORS IN INTEREST:

All the terms, provisions, and conditions of the Contract shall be binding upon and inure to the benefit of the parties hereto and their respective successors, assigns and legal representatives.

VENDOR’S TERMINATION DUTIES:

The Vendor, upon receipt of notice of termination or upon request of the Agency/Buyer, shall:

- Cease work under this Contract and take all necessary or appropriate steps to limit disbursements and minimize costs, and furnish a report within thirty (30) days of the date of notice of termination, describing the status of all work under the Contract, including, without limitation, results accomplished, conclusions resulting there from, any other matters the Agency/Buyer may require;

- Immediately cease using and return to the Agency/Buyer any personal property or materials, whether tangible or intangible, provided by the Agency/Buyer to the Vendor;

- Comply with the Agency/Buyer’s instructions for the timely transfer of any active files and work product produced by the Vendor under this Contract;

- Cooperate in good faith with the Agency/Buyer, its employees, agents and contractors during the transition period between the notification of termination and the substitution of any replacement contractor;

- Immediately return to the Agency/Buyer any payments made by the Agency/Buyer for services that were not rendered by the Vendor.

OVERTIME:

All work performed by Vendor at overtime rates shall be pre-approved by the Agency/Buyer.

PURCHASE OF EQUIPMENT AND MAINTENANCE ASSURANCE:

Vendor shall not purchase equipment with funds received under this Contract without having obtained the Agency/Buyer’s prior approval. For purposes of this Article, “equipment” shall include any product, tangible and non-tangible, used solely in Vendor’s performance under this Contract and having a useful life of two years or more and an acquisition cost of at least $100. Vendor acknowledges that the Agency/Buyer is under no obligation to give consent and that the Agency/Buyer may, if it gives consent, subject that consent to such additional terms and conditions as the Agency/Buyer may require. Vendor acknowledges that any equipment purchased under this provision is and shall remain the property of the Agency/Buyer.

- The Agency/Buyer reserves the right to maintain any equipment purchased under this Contract using Agency/Buyer personnel or third party maintainers. In such case, Vendor shall provide the Agency/Buyer or its maintenance provider with such services, documentation, materials and parts under reasonable terms and conditions and at reasonable costs. The Agency/Buyer reserves the right to return to Vendor’s maintenance following written certification by Vendor
that the equipment is eligible for Vendor’s maintenance. Vendor’s standard charges for the
certification inspection, plus any applicable charges required to bring the equipment into
eligibility for Vendor’s maintenance shall apply. Exercise of these rights by the Agency/Buyer
shall be without penalty or sanction by Vendor.

If Vendor discontinues service or maintenance of equipment or software provided under this
Contract, Vendor shall provide to the Agency/Buyer at no cost adequate documentation and
access to specialized or proprietary tools to allow the Agency/Buyer or a subcontractor to
maintain the equipment or software. This provision shall not apply if Vendor arranges for
continued service and maintenance through another Vendor and at a price acceptable to the
Agency/Buyer.

USE OF THIRD PARTIES:

- The Agency/Buyer acknowledges that the Vendor may contract with third parties for the
performance of any of the Vendor’s obligations under this Contract. However, all subcontracts
shall be subject to prior approval by the Agency/Buyer, so the Vendor must obtain the
Agency/Buyer’s prior written consent before allowing any Third Party to perform any of the
Vendor’s obligations under this Contract.

- A Vendor who obtains the Agency/Buyer’s prior written consent and subsequently enters into a
contract with a Third Party for performance of any of the Vendor’s obligations under this
Contract remains responsible for all services performed under this Contract. All restrictions,
obligations and responsibilities of the Vendor under this Contract shall also apply fully and
completely to subcontractors. This includes requiring all subcontractors to submit certifications
and disclosures to Agency/Buyer for review and approval upon request. The Agency/Buyer shall
have the right to request the removal of a subcontractor from the Contract for good cause.

USE OF WORK PRODUCT:

Unless otherwise agreed in writing, the following applies regarding work product created or
produced under this Contract:

- Work product produced under this Contract, including, but not limited to, documents, reports,
information, documentation of any sort and ideas, whether preliminary or final, shall become
and remain the property of the State and/or Agency/Buyer, including any patent, copyright or
other intellectual property rights;

- With the exception of ideas, all such work products shall be considered works made for hire
within the meaning of 17 U.S.C. § 101;

- To the extent that any portion of such work product is not a work made for hire, Vendor
completely and without reservation assigns to the Agency/Buyer all right, title and interest in
and to such portion of the work product, as well as all related intellectual property rights,
including patent and copyright;
Agency/Buyer shall exercise all rights of ownership in all such work product without restriction or limitation, without further compensation to Vendor.

Vendor shall not acquire or have any right to use, disclose or reproduce the work product or any equipment, documents, information, media, software, or know-how obtained from the State except to perform this Contract. Nothing herein shall be construed as precluding the use of any information independently acquired by Vendor without such limitation;

The ideas, methodologies, processes, inventions and tools (including computer hardware and software where applicable) that Vendor previously developed and brings to the Agency/Buyer in furtherance of performance of the Contract shall remain the property of the Vendor; and

Vendor grants to the Agency/Buyer a nonexclusive license to use and employ such software, ideas, concepts, methodologies, processes, inventions and tools solely within its enterprise.

INCORPORATION BY REFERENCE:

The provisions, conditions, specifications and certifications contained in the Solicitation Document are, by this reference, made a part hereof.

☐ Other (describe)

Click here to enter text.

5.2. VENDOR SUPPLEMENTAL PROVISIONS

Click here to enter text.
REQUIRED FOR ALL PROJECTS

Does this project receive Federal funds? ☑ Yes □ No

Amount of Federal funds: $2,000,480 X 6 (for each FY of the 6-year contract) = $12,002,880

Federal Project Number: SPR-PL 3000(073)

Name of Project: Geographic Information Services (GIS) Service Oriented Architecture

CFDA Number*, Federal Agency, Program Title: 20.205, FHWA, Highway Planning & Construction

*For CFDA (Catalog of Federal Domestic Assistance) Number, refer to original Federal Award/Grant Agreement.

ANNUAL CERTIFICATION FOR SINGLE AUDIT COMPLIANCE

NOTICE

- The certification applies ONLY to governmental agencies, local units of government and non-profit agencies expending federal funds for this project. It does not apply to for-profit public or private entities.

- If 2 CFR Part 200, Subpart F, Audit Requirements applies to your organization, submit the certification or a copy of your single audit must be submitted to the department at the end of your fiscal year for any fiscal year in which you expended any federal funds related to this contract.

NOTE: ANNUAL COMPLIANCE WITH THIS REQUIREMENT IS MANDATORY FOR EVERY YEAR IN WHICH FEDERAL FUNDS ARE EXPENDED FOR THIS PROJECT BY ANY STATES, LOCAL GOVERNMENTS OR NONPROFIT ORGANIZATIONS. FAILURE TO COMPLY WITH THE ANNUAL CERTIFICATION TO THE DEPARTMENT WILL RESULT IN THE SUSPENSION OF PAYMENTS TO REIMBURSE PROJECT COSTS.

In accordance with 2 CFR Part 200, Subpart F, Audit Requirements such non-federal entities that expend $750,000 (or the current 2 CFR Part 200 qualifying amount) or more in federal awards in a year are required to have a single audit performed. The Illinois Department of Transportation (IDOT) is required by federal law to obtain and review the single audit of all entities that had any federally participating funds pass through it, irrespective of the amount provided by IDOT. It is the responsibility of the agencies expending federal funds to comply with the requirements of 2 CFR Part 200 and determine whether they are required to have a single audit performed.

In order to comply with this requirement, your agency must provide the following information to the department on an annual basis for every year in which you expended funds for costs associated with this project:

1. If your agency expended $750,000 (or the current 2 CFR Part 200 qualifying amount) or more in federal awards from all sources, including other agencies, in a year, you are required to have a single audit performed in accordance with 2 CFR Part 200 and submit a copy of the report to the department within the earlier of 30 days after completion of the single audit or no more than nine months after the end of your fiscal year end.

2. If your agency did not expend $750,000 (or the current 2 CFR Part 200 qualifying amount) or more in
NOTICE

Do not submit this certification to the department with your signed contract.

- This certification applies ONLY to governmental agencies, local units of government and non-profit agencies expending federal funds for this project. It does not apply to for-profit public or private entities.
- If 2 CFR Part 200, Subpart F, Audit Requirements applies to your organization, this certification or a copy of your single audit must be submitted to the department at the end of your fiscal year for any fiscal year in which you expended any federal funds related to this contract.

Single Audit Not Required Certification

I certify that ______________________________ did not expend $750,000 or more in federal awards in our fiscal year ___________ and was not required to have a single audit conducted.

(Signature)

(Title)

Subrecipient Contact Information

Subrecipient: ______________________________

Contact Person: ______________________________  Title: ______________________________

Address: ______________________________

Phone No. ______________________________

Fax No. ______________________________

Fiscal Year End: ______________________________

Email address: ______________________________
STATE OF ILLINOIS
TAXPAYER IDENTIFICATION NUMBER

I certify that:

The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and

I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and

I am a U.S. person (including a U.S. resident alien).

• If you are an individual, enter your name and SSN as it appears on your Social Security Card.
• If you are a sole proprietor, enter the owner’s name on the name line followed by the name of the business and the owner’s SSN or EIN.
• If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner’s name on the name line and the D/B/A on the business name line and enter the owner’s SSN or EIN.
• If the LLC is a corporation or partnership, enter the entity’s business name and EIN and for corporations, attach IRS acceptance letter (CP261 or CP277).
• For all other entities, enter the name of the entity as used to apply for the entity’s EIN and the EIN.

Name: N/A
Business Name: Raptor Software, Inc.
Taxpayer Identification Number:

Social Security Number: N/A
or

Employer Identification Number: 7(1)(b)

Legal Status (check one):

☐ Individual
☐ Sole Proprietor
☐ Partnership
☐ Legal Services Corporation
☐ Tax-exempt
☐ Corporation providing or billing medical and/or health care services
☒ Corporation NOT providing or billing medical and/or health care services

Signature of Authorized Representative:

Date: June 1, 2016
STATE OF ILLINOIS
TAXPAYER IDENTIFICATION NUMBER

I certify that:
The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
I am a U.S. person (including a U.S. resident alien).

- If you are an individual, enter your name and SSN as it appears on your Social Security Card.
- If you are a sole proprietor, enter the owner's name on the name line followed by the name of the business and the owner's SSN or EIN.
- If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's name on the name line and the D/B/A on the business name line and enter the owner's SSN or EIN.
- If the LLC is a corporation or partnership, enter the entity's business name and EIN and for corporations, attach IRS acceptance letter (CP261 or CP277).
- For all other entities, enter the name of the entity as used to apply for the entity's EIN and the EIN.

Name: Tim Johnson
Business Name: GIS Solutions Inc.
Taxpayer Identification Number:
    Social Security Number: N/A
    or
    Employer Identification Number: 7(1)(b)

Legal Status (check one):

- Individual
- Sole Proprietor
- Partnership
- Legal Services Corporation
- Tax-exempt
- Corporation providing or billing medical and/or health care services
- Corporation NOT providing or billing medical and/or health care services

- Governmental
- Nonresident alien
- Estate or trust
- Pharmacy (Non-Corp.)
- Pharmacy/Funeral Home/Cemetery (Corp.)
- Limited Liability Company

(select applicable tax classification)

- C = corporation
- P = partnership

Signature of Authorized Representative:

Date: June 3, 2016
OCIS CICIOCP1 OFFSET CONTRACT INQUIRY

ACTION: S

VENDOR NUMBER= 7(1)(b)
VENDOR NAME: *
CLAIMING AGENCY NUMBER: *
CLAIMING AGENCY NAME: *
CLAIMING AGENCY PHONE NUMBER: *

DISCLAIMER:
AS OF 08/18/16 AT 08:26 OUR INVOLUNTARY WITHHOLDING SYSTEM DOES NOT HAVE AN ACTIVE CLAIM AGAINST VENDOR NUMBER *****0582. PLEASE BE ADVISED THAT OUR SYSTEM ONLY CONTAINS CLAIMS FILED BY STATE AGENCIES PURSUANT TO 15 ILCS 405/10.05. A VENDOR MAY BE DELIQUENT IN A DEBT TO THE STATE OF ILLINOIS, BUT THE DEBT MAY NOT BE RECORDED ON OUR INVOLUNTARY WITHHOLDING SYSTEM.

ENTER=PROCESS, PF3=IOCM, PF12=REFRESH
STATE OF ILLINOIS
TAXPAYER IDENTIFICATION NUMBER

I certify that:

The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and

I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and

I am a U.S. person (including a U.S. resident alien).

- If you are an individual, enter your name and SSN as it appears on your Social Security Card.
- If you are a sole proprietor, enter the owner's name on the name line followed by the name of the business and the owner's SSN or EIN.
- If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's name on the name line and the O/B/A on the business name line and enter the owner's SSN or EIN.
- If the LLC is a corporation or partnership, enter the entity's business name and EIN and for corporations, attach IRS acceptance letter (CP261 or CP277).
- For all other entities, enter the name of the entity as used to apply for the entity's EIN and the EIN.

Name: Robert Blackwell Jr.
Business Name: Electronic Knowledge Interchange Company
Taxpayer Identification Number:
Social Security Number:

Employer Identification Number: 7(1)(b)

Legal Status (check one):
☐ Individual
☐ Sole Proprietor
☐ Partnership
☐ Legal Services Corporation
☐ Tax-exempt
☐ Corporation providing or billing medical and/or health care services
☒ Corporation NOT providing or billing medical and/or health care services

☐ Governmental
☐ Nonresident alien
☐ Estate or trust
☐ Pharmacy (Non-Corp.)
☐ Pharmacy/Funeral Home/Cemetery (Corp.)
☐ Limited Liability Company

(select applicable tax classification)
☐ C = corporation
☐ P = partnership

Signature of Authorized Representative: _______________________

Date: June 2, 2016
VENDOR NUMBER: 7(1)(b)
VENDOR NAME: *
CLAIMING AGENCY NUMBER: *
CLAIMING AGENCY NAME: *
CLAIMING AGENCY PHONE NUMBER: *

DISCLAIMER:
AS OF 08/18/16 AT 08:22 OUR INVOLUNTARY WITHHOLDING SYSTEM DOES NOT HAVE AN ACTIVE CLAIM AGAINST VENDOR NUMBER ******-9683. PLEASE BE ADVISED THAT OUR SYSTEM ONLY CONTAINS CLAIMS FILED BY STATE AGENCIES PURSUANT TO 15 ILCS 405/10.05. A VENDOR MAY BE DELINQUENT IN A DEBT TO THE STATE OF ILLINOIS, BUT THE DEBT MAY NOT BE RECORDED ON OUR INVOLUNTARY WITHHOLDING SYSTEM.

ENTER=PROCESS, PF3=IOM, PF12=REFRESH
STATE OF ILLINOIS
TAXPAYER IDENTIFICATION NUMBER

I certify that:

The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and

I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and

I am a U.S. person (including a U.S. resident alien).

- If you are an individual, enter your name and SSN as it appears on your Social Security Card.
- If you are a sole proprietor, enter the owner's name on the name line followed by the name of the business and the owner's SSN or EIN.
- If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's name on the name line and the D/B/A on the business name line and enter the owner's SSN or EIN.
- If the LLC is a corporation or partnership, enter the entity's business name and EIN and for corporations, attach IRS acceptance letter (CP261 or CP277).
- For all other entities, enter the name of the entity as used to apply for the entity's EIN and the EIN.

Name: N/A
Business Name: Raptor Software, Inc.
Taxpayer Identification Number:
Social Security Number: N/A
or
Employer Identification Number: [Redacted]

Legal Status (check one):
☐ Individual
☐ Sole Proprietor
☐ Partnership
☐ Legal Services Corporation
☐ Tax-exempt
☐ Corporation providing or billing medical and/or health care services
☒ Corporation NOT providing or billing medical and/or health care services

☐ Governmental
☐ Nonresident alien
☐ Estate or trust
☐ Pharmacy (Non-Corp.)
☐ Pharmacy/Funeral Home/Cemetery (Corporation)
☐ Limited Liability Company

(select applicable tax classification)
☐ C = corporation
☐ P = partnership

Signature of Authorized Representative:

Date: June 1, 2016
8:24:59 Thursday, August 18, 2016

OCIS CICIOCPl  OFFSET CONTRACT INQUIRY  08:24 08/18/16

ACTION: S

VENDOR NUMBER-  OFFSET: 00 OF 00
VENDOR NAME: *
CLAIMING AGENCY NUMBER: *
CLAIMING AGENCY NAME: *
CLAIMING AGENCY PHONE NUMBER: *

DISCLAIMER:
AS OF 08/18/16 AT 08:24 OUR IN VOLUNTARY WITHHOLDING SYSTEM DOES NOT HAVE AN
ACTIVE CLAIM AGAINST VENDOR NUMBER *****6062. PLEASE BE ADVISED THAT OUR
SYSTEM ONLY CONTAINS CLAIMS FILED BY STATE AGENCIES PURSUANT TO 15 ILCS 405/
10.05. A VENDOR MAY BE DELIQUENT IN A DEBT TO THE STATE OF ILLINOIS, BUT THE
DEBT MAY NOT BE RECORDED ON OUR INVOLUNTARY WITHHOLDING SYSTEM.

ENTER=PROCESS, PF1=IOC0, PF12=REFRESH
Appendix A
SUPPLIES AND/OR SERVICES REQUIRED
MILESTONES AND DELIVERABLES
VENDOR / STAFF SPECIFICATIONS
(Appendix A herein incorporated by reference)
State of Illinois, Department of Transportation

Geographic Information System (GIS) Service Oriented Architecture
22037966
D. SPECIFICATIONS/QUALIFICATIONS/STATEMENT OF WORK

D.1 GOAL

GIS Solutions is very familiar with the Illinois Department of Transportation (IDOT) progressive utilization of GIS technologies and information in a variety of activities including planning, inventory management and decision support. We know numerous divisions at IDOT are using GIS, including divisions responsible for program management, asset management, transportation safety, environmental services, design and operations and that GIS technologies are embraced by the Department as a core business practice.

While geospatial technology has long been an important tool in the transportation marketplace, the introduction and advancement of Internet mapping, social networking, GPS devices, in-vehicle navigations, etc. has created a society that is more and more spatially aware. With this exposure comes an expectation and desire that geospatially-enabled applications are supported at the enterprise-level for analysis and decision support.

IDOT understands GIS as a Service - Service Oriented Architecture (SOA) – can have positive impacts on the information technology group and the organization as a whole. SOA is a component-based software architecture model for enterprise application development and integration. With SOA comes more flexibility and agility which in turn promotes collaboration, integration of disparate new and legacy systems, reduction in development time and costs, and better readiness to changing business conditions.

With the increased emphasis on spatially aware applications and solutions, geospatial services have become ever increasingly important as well. ESRI’s software suite and other products have evolved with enterprise needs, offering opportunities to use both out-of-the-box mapping and geoprocessing services as well as tools to custom build solutions. ArcGIS Server enables developers by providing a platform for content to be served and integrated across the enterprise using XML and Web services in support of geospatial SOA initiatives. ArcObjects provides a collection of components that can be deployed across various computing frameworks (desktop, mobile, and server).

With the explosion of geospatial awareness and probably responsible for much of the growth, came several on-line mapping services (MapQuest, Google Maps, Bing Maps, Esri ArcWeb Service, Yahoo Maps). These services provide opportunities for designers and developers to
have access to content, economies of scale, and mapping performance not seen before in the GIS industry. Consumption of these web services from the "cloud" within organizations through application interfaces has greatly enhanced mapping presentation.

GIS Solutions has and will work with progressively with IDOT in its utilization of GIS technologies to support planning, inventory management, safety analysis, and decision support. GIS Solutions has helped IDOT implement GIS technologies as a core business component and will continue to expand implementation with them to a more robust geospatial SOA. We have evolved with SOA tools and components over the past several years, implementing applications based on the Esri technology platform and other 3rd party offerings. We are well suited to continue the balance between GIS technology and user-friendly applications with our experience in developing and deploying Silverlight mapping solutions and other systems based on Rich Internet Applications (RIA) framework technologies.

GIS Solutions will provide immediate services of 1 Project Manager, 2 Senior .NET Application Developers, 4 .NET Application Developers, 2 Business Analysts and 1 Application/Software Architect. Skills and experience of all proposed resources are outlined below and detailed resumes are also included in this packet.

### D.2 SUPPLIES AND/OR SERVICES REQUIRED:

GIS Solutions has reviewed the following required supplies and services and agrees to and has 'met' all requirements. Information has been provided in the Vendor Narrative for each requirement to demonstrate how GIS Solutions has met the requirement.

<table>
<thead>
<tr>
<th>Mandatory Requirements</th>
<th>Vendor Narrative</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Vendor must supply resumes for each position/role defined below. 1 PM, 2 Sr App Dev, 4 App Dev, 2 BA, and 1 app/software arch. Not providing the requested number of resumes will result in disqualification. The resumés should identify the capabilities of the candidates as they relate to developing/supporting Microsoft &amp; Esri technologies. Resumé</td>
<td>☑ Met Resumes for all proposed resources are included in this packet as Attachment A. Resumes are provided for a Project Manager, 2 Senior .NET Application Developers, 4 Application .NET Developers, 2 Business Analysts and 1 Application/Software Architect. □ Not Met</td>
</tr>
</tbody>
</table>
should include:

1. the position description,
2. typical examples of work,
3. education, experience and skills, and
4. technology platforms/tools and languages utilized by candidate.

2. Project Manager must have a valid PMP certification through the Project Management Institute, www.pmi.org. The active certification will be validated through the PMI website. Failure to verify through the PMI website will result in disqualification.

   | ☑ Met | The GIS Solutions Project Manager, Jim Conlon, has been PMP certified through the Project Management Institute since 2005. His certification number is 250273. |
   | ☐ Not Met | |

3. All candidates provided within Proposal must be a US Citizen or hold a Permanent Resident Card (commonly known as “Green Card”). OFFEROR must provide copy of Permanent Resident card of any candidate that is not a US citizen at time of award. Failure to provide copy at time of award will result in disqualification and Agency moving to the next highest qualified vendor.

   | ☑ Met | All candidates provided by GIS Solutions are U.S. Citizens or hold a Permanent Resident card. GIS Solutions is prepared to provide copies of Permanent Resident cards if awarded the contract. |
   | ☐ Not Met | |

4. Vendor must provide 4 Business References in which they have placed contractual resources within the last 3 years. References must be willing to accept reference check phone calls from the Department regarding work performed and validating information within reference letter.

   | ☑ Met | GIS Solutions is providing 4 Business References which include government and private sector entities where we have placed contractual resources within the last 3 years. The contact information provided for these references are willing to provide information regarding work performed by GIS Solutions and may be contacted for further validation of services. The government and private sector references are: |
   | ☐ Not Met | 1. Kane County Division of Transportation, Illinois  
2. Honolulu Board of Water Supply, Honolulu, Hawaii  
3. HERE, Chicago, Illinois Office |

Geographic Information System (GIS) Service Oriented Architecture/IPB# 22037966  
GIS Solutions, Inc.
<table>
<thead>
<tr>
<th></th>
<th>Vendor must have been in business over the last 3 years supplying IT consultants to businesses.</th>
<th>Met</th>
<th>Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4.</strong></td>
<td>Patrick Engineering, Chicago, Illinois</td>
<td>GIS Solutions has been in business for over 20 years. For the past 16 years, GIS Solutions has been supporting and assisting various local and state government agencies through on-site support services in the implementation of GIS technology as well as the integration of HERE data with their applications and local data for the last 10 years. This on-site support has resulted in a broad understanding of an agency’s unique data systems, infrastructure and dependencies. Further, GIS Solutions recognizes the implications encompassing the implementation of enterprise solutions. In some areas, we have performed as Project Managers as well as team members for GIS development, data integration, maintenance and support. The knowledge base possessed by GIS Solutions will ensure the placement of highly skilled and competent consultants to meet the needs of IDOT.</td>
<td></td>
</tr>
<tr>
<td><strong>5.</strong></td>
<td>Vendor must be an Authorized Esri Consultant or Developer.</td>
<td>Met</td>
<td>Not Met</td>
</tr>
<tr>
<td><strong>6.</strong></td>
<td>GIS Solutions is an Authorized Business, Partner and Consultant with Esri – the recognized world leader in GIS technology. Our programming staff maintain expertise in the customization, deployment, and use of Esri technology. Our technical staff are experts in integrating applications using Esri software with industry-standard technologies. As an Authorized Business Partner, GIS Solutions is an authorized Esri Software Developer, Distributor, and Consultant.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>7.</strong></td>
<td>Vendor must be an Authorized HERE</td>
<td>Met</td>
<td>Not Met</td>
</tr>
<tr>
<td><strong>GIS Solutions</strong></td>
<td>GIS Solutions has been an authorized HERE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Below are highlights of our proposed personnel to meet IDOT's immediate staff needs.

Please see Attachment A in this packet for detailed resumes.

1. **Jim Conlon, PMP - Project Manager**

   - Project Management Professional PMP
   - Experience managing multiple projects of varying size and complexity
   - Able to manage both traditional waterfall projects as well as Agile based iterative projects
   - 18 experience in the GIS industry
   - 4 years experience as an ArcGIS Online Administrator
   - 14 years GIS Project Manager
   - 12 years GIS System Architect
   - 13 years GIS and Programming Experience
10 years experience in ArcIMS development, web based applications
9 years experience in developing ArcObjects based tools and applications using Visual Basic.
8 years .NET, ASP.NET programming experience

Technical Expertise:
- Project Management Software: SharePoint, Microsoft Project, Microsoft Project Server, IDOT EPM Portal.
- GIS Software Knowledge: ArcMap, ArcCatalog, ArcObjects, ArcGIS Server, ArcIMS, ArcSDE, ArcView, Spatial Analyst, RouteMap, Network Analyst, MapObjects
- Previous Development Languages: Visual Basic, Avenue, SQL, JavaScript, ActiveX, Active Server Pages, HTML, DHTML, ASP.Net, VB.Net.
- Database Applications: Working knowledge of Microsoft SQL Server, Microsoft Access.
- Database Applications: Microsoft SQL Server, Microsoft Access.

2. Rey de Castro, GISP – Senior .NET Applications Developer

- Certified Geographic Information Systems Professional (GISP)
- 24 years GIS and Programming Experience
- 4 years experience as an ArcGIS Online Developer
- 14 years experience in Esri Geodatabase development
- 9 years experience in Esri ArcGIS Server
- 18 years experience in Esri ArcIMS development, web based applications
- 13 years experience in developing ArcObjects based tools /applications using Visual Basic.
- 12 years .NET, ASP.NET programming experience
- 10 years experience in web services (SOA) development
- 7 year experience in Microsoft Silverlight development
- Technical Expertise:
  - Languages: XAML (Silverlight), VB.NET, ASP.NET MVC, ASP.NET, ASP, ArcObjects, JavaScript, Avenue, ColdFusion, HTML, HTML5, Visual Basic, C#, Python
  - Database Applications: SQL Server, Access.
    Team Foundation Server, Bootstrap
3. Mike Maroon – Senior .NET Applications Developer

- 23 years GIS and Programming Experience
- 16 years experience in Esri Geodatabase development
- 11 years experience in Esri ArcGIS Server
- 11 years experience using NAVTEQ NAVSTREETS Data product, ZIP Code data, Parcel data, Transport data, and Census data
- 16 years experience in developing ArcObjects based tools and applications using Visual Basic and C#.
- 14 years .NET, ASP.NET programming experience and XML Web Services
- 14 years Service Oriented Architecture (SOA) and Web Service Development
- Technical Expertise:

4. Travis Gorrie, GISP - .NET Applications Developer

- Certified Geographic Information Systems Professional (GISP)
- 17 years GIS and Programming Experience
- 12 years experience in Esri Geodatabase development
- 9 years experience in Esri ArcGIS Server development
- 14 years experience in Esri ArcIMS development, web-based GIS applications
- 10 years experience in developing ArcObjects based tools/applications using Visual Basic.
- 9 years VB.NET, ASP.NET programming experience
- 8 years experience in web services (SOA) development
- 7 year experience in Microsoft Silverlight development
- Technical Expertise:
- Languages: Silverlight, Visual Basic, HTML, Avenue, SQL, AML, C/C++, JavaScript, ActiveX, Active Server Pages, .NET, ASP.NET, Python
- Database Applications: SQL Server, Access.

5. **David Cheley - .NET Applications Developer (Raptor Software)**

- Over 20 years Consulting and Programming Experience
- 10 years experience in SharePoint development
- 15 years experience in SQL Database design and reporting
- 12 years VB.NET, ASP.NET programming experience
- 8 years experience in web services (SOA) development
- Technical Expertise:
  - Languages: ADO, ADO.NET, JSPs, ASP, Lotus Script, ASP.NET, PL/SQL, C#, .NET, SQL, CFML, SQL*Plus, CGI (Perl), UML, CSS, DHTML, VBS, EJBs, VB.NET, HTML, Visual C++, Java, XML, JavaScript, JQuery, XSD
  - Database Applications: DB2, Oracle 7.x / 8i / 9i / 11, Oracle, SQL Reporting and Analysis Services, SQL Server 6.5 / 7.0 / 2000 / 2005 / 2008 / 2012 / 2014, MS Access

6. **Jillian Stanford - .NET Applications Developer**

- Esri Certified Web Application Developer Associate
- Esri Certified ArcGIS Desktop Associate
- 14 years GIS and Programming experience
- 11 years experience in Esri Geodatabase development
- 10 years experience in Esri ArcGIS Server
- 14 years experience in Esri ArcIMS development, web based applications
- 11 years experience in developing ArcObjects based tools and applications
7. Devon Munsell - .NET Applications Developer

- 10 years GIS and Programming Experience
- 8 years experience in Esri Geodatabase development
- 8 years experience in Esri ArcGIS Server development
- 4 years experience in web services (SOA) development
- Technical Expertise:
  - Languages: Visual Basic, HTML, HTML5, SQL, C#, JavaScript, ASPX, Python
  - Operating Systems: Windows 7, Windows XP
  - Database Applications: SQL Server, Access.
  - Other: MS Office, Microstation, Adobe Photoshop, MS Project

8. Jennifer Gorrie, PMP - Business Analyst

- Project Management Professional Certification
- 16 years GIS and Programming Experience
- 14 years experience in Esri Geodatabase development
- 8 years experience in Esri ArcGIS Server
• 9 years experience in developing ArcObjects based tools and applications using Visual Basic.
• 5 years .NET, ASP.NET programming experience
• Technical Expertise:
  • GIS Software: ArcGIS Server, ArcMap, ArcGIS Online, ArcCatalog, ArcObjects, ArcEngine, ArcIMS, ArcInfo, ArcSDE, ArcView, Spatial Analyst, Network Analyst
  • Languages: ArcObjects, JavaScript, Avenue, VB.NET, ASP.NET, ASP, HTML, Visual Basic, AML, Avenue.
  • Database Applications: SQL Server, Access.
  • Other Software: Excel, Word, PowerPoint, Project, Visio

9. Max Walker - Business Analyst

• 10 years GIS Experience
• 4 years experience in Esri Geodatabase development
• 3 years experience in Esri ArcGIS Server
• Technical Expertise:
  • GIS Software: ArcGIS Server, ArcMap, ArcGIS Online, ArcCatalog, ArcObjects, ArcSDE, ArcGIS Extensions
  • Languages: Python
  • Database Applications: SQL Server, Access.
  • Other Software: Excel, Word, PowerPoint, Visio, Adobe Photoshop/Illustrator, Erdas Imagine

10. Colin Blair – Application/Software Architect (EKI)

• Application/Software Architect
• Microsoft MVP
• 19 years Programming Experience
• 8 year GIS Programming Experience
• 8 years experience working with Esri Geodatabases
• 8 years experience in Esri ArcGIS Server
• 19 years experience in developing tools and applications using Visual Basic and C#.
• 14 years .NET, ASP.NET programming experience and XML Web Services
• Technical Expertise:
D.3. MILESTONES AND DELIVERABLES:

GIS Solutions and our project manager, Mr. Conlon, are in the unique position of having knowledge of the Bureau of Information processing project management processes, required artifacts, and workflows. He understands he reports to the Bureau of Information Processing CIO or designee. He knows the steps to initiate a project, works with TFS Foundation Server and EPM Live, and the IT Governance processes. He has knowledge of CMS projects gates with needed documentation including the State of Illinois Charter, Business Requirements, Technical Requirements, and close-out. He is very familiar with other timelines and milestones, communication through workspace issue listing, defect tracking, meeting minutes, and status reports; and non-tangible institutional knowledge allowing affective management of project activities.

Mr. Conlon has and will continue to work with the BIP Project Management Office (PMO) to determine required deliverables for each project utilizing GIS and GIS architecture during the term of the contract. Mr. Conlon will work with the BIP PMO as needed to review projects to be completed under this contract with the Planning & System Section Chief in the Office of Planning & Programming (OP&P). He has extensive experience with OP&P business applications, processes, and workflows.

HERE Data

GIS Solutions are HERE (formerly NAVTEQ) data experts and support several clients with data updates in various formats. We have been working with the HERE data on integration projects for the past 10 years and have developed multiple software tools and utilities which identify changes in the HERE NAVSTREETS database and integrate those modifications into an existing HERE NAVSTREETS dataset. These tools provide the ability to integrate HERE database updates into custom datasets with less effort and no database downtime. The database integration tools were built using a combination of ESRI ArcObjects code and ESRI ArcSDE C API code. Additionally, database delta changes are now detected and updated using native spatially enabled RDBS tools.
GIS Solutions will provide HERE Map Data for Illinois DOT Enterprise License Agreement. We understand the licensed use of HERE Data is governed strictly by the Reseller Agreement with HERE. For this ELA, GIS Solutions will provide updates of HERE Data to Illinois DOT Quarterly. Costs of the HERE data are included in the separate cost proposal.

GIS Solutions understands HERE Map Data is a comprehensive portfolio of automotive-grade map data for efficiently location, routing, optimizing, and analyzing mobile and fixed assets. Our team know the HERE Map Data includes a comprehensive set of enterprise-specific content. Examples include:

GIS Solutions HERE Data ELA Products/Content (HERE NAVSTREETS Premium and Additional Content):

1. **Truck and Advanced Driver Assistance System (ADAS) features** such as physical and legal road restrictions, road curvature, maximum heights, environmental zones and loading dock locations.
2. **Toll cost data** including information relating to vehicle type, number of axles, trailers and wheels.
3. **Speed Limit data** including maximum values as well as conditional, unconditional and variable limits.
4. **Fuel types (with EV), fuel prices, parking preview as well as truck POIs including fuel stations for trucks, extended lanes and lane markings, natural guidance, off road, signs, signals and warnings.**
5. **Extended Listings Content** consists of the Core Points of Interest (POIs) and additional points of interest for the United States and Canada collected by Dunn and Bradstreet geocoded by HERE.
6. **Census Boundaries** consist of the boundaries of geographic areas defined by the United States Census Bureau and aligns it to the HERE map street centerlines.
7. **Postal Code Boundaries Content** consists of 2 layers, a 5-digit zip code polygon layer and a 5-digit zip code centroid layer.
8. **Postal Code Points Content** consists of a point representation of the US 9-digit full zip code.
9. **Point Addressing Content** with exact coordinates for over 300 million delivery locations, visual display points and micro point address data.

Also Provided (Optional):

GIS Solutions has also included **Traffic Analytics** Content pricing. Traffic Analytics is a data product that provides a record of traffic speed observations on roads. Based on the same GPS probe data as HERE Real-Time Traffic, it delivers historical traffic speeds for analytical applications. GIS Solutions has worked with the Traffic Analytics data for other clients.
As noted above, quarterly updates have been and will continue to be provided to IDOT from HERE. These updates are distributed from HERE in ESRI Shapefile format. The HERE extended (premium) points of interest (POI) layer is distributed from HERE in XML format. These files are generated from Dunn & Bradstreet information. GIS Solutions has established a process to transform the XML files in to GIS layers. All information is updated quarterly from HERE is distributed in Esri File GeoDatabase format and ESRI Shapefile format after it is prepared for Illinois.

GIS Solutions will also deliver a state-wide Esri locator enabled dataset to IDOT for distribution and updated quarterly. This dataset provides an out-of-the-box geocode ready solution to IDOT and state agencies using Esri software.

Quarterly updates from HERE are distributed as entire datasets. These updates require users of the data to replace an entire GIS database with the new files. GIS Solutions has established methodology to identify changes (Additions, Deletions, and Modifications) in the HERE data between releases. This methodology facilitates quarterly updates to the IDOT/HERE data product.

After processing, the resulting GIS data sets provide IDOT and other agencies with an accurate road base with address ranges, street names, etc. that coincide with the rich set of IDOT roadway attributes. GSI built this process from the beginning and is uniquely qualified to continue this service.

D.4. OFFEROR / STAFF SPECIFICATIONS:

GIS Solutions has provided a detailed narrative in Section D.6 responding to the required experience and capabilities outlined in Section D.4.1 – Vendor Experience and Section D.4.2 – Vendor Capability. Also included in Section D.6 is acknowledgement of items D.4.3 through D.4.11 by an Authorized Representative.

D.5. TRANSPORTATION AND DELIVERY TERMS: N/A

D.6. OFFEROR’S PROPOSED SOLUTION TO MEET THE STATE’S REQUIREMENTS:

The following is a detailed narrative describing GIS Solutions’ experience and capability in response to Section D.4.1 – Vendor Experience and Section D.4.2 – Vendor Capability. Also included is acknowledgement of items D.4.3 through D.4.11 by an Authorized Representative.
Experience Providing IT Resources

Vendor Experience Response 1 a)

The experience and capabilities of the GIS Solutions staff bring tremendous value to IDOT in support of its activities and mission. GIS Solutions will provide technical, management, and systems experts who will meet all requirements with exceptional service.

GIS Solutions and their sub-contractors have proven track records in GIS technology developing and implementing sophisticated solutions that support the collection, management, and analysis of transportation data. We have extensive experience in providing similar technical, management and support services, and can provide the IDOT highly scalable support.

GIS Solutions, Inc. - Established as a full service Geographic Information System (GIS) consulting firm in 1992, GIS Solutions, Inc. provides GIS products and services to federal, state, local and private sector clients, including Fortune 500 companies. GIS Solutions' corporate headquarters is located in Springfield, Illinois.

GIS Solutions expertise in database design and application development is the foundation of our information systems consultation and technical services. Our Senior Developers have extensive experience in designing and developing a full range of geospatial databases and related applications varying in size, complexity, and computing environment. We have and continue to evolve with the ever changing information and GIS technology stack, including service orientated architecture with geospatial and mapping web services, and relational database spatial data types. Our applications include stand alone or networked desktop solutions, mobile applications, and web-enabled interfaces. We specialize in designing, developing, and deploying Enterprise GIS solutions for our clients that maximize information resources across the organization.

As with all information technology projects, it is important to have access to right technical people. GIS Solutions counts among its staff the following certified professionals:

- Project Manager Professionals (PMP)
- Certified Geographic Information Systems (GIS) Professionals
- Esri Enterprise Geodatabase Management Professionals
- Esri Enterprise System Design Associates

Geographic Information System (GIS) Service Oriented Architecture/IPB# 22037566
GIS Solutions, Inc.
• Esri Enterprise Administration Associates
• Esri Desktop Professionals
• Esri Desktop Developer Associates
• Esri Web Application Developer Associates

GIS Solutions consist of staff who are specialists in project management, application development, strategic planning, geographic information systems technology, and business process analysis to ensure project success.

GIS Solutions maintains full time technical staff who have extensive experience in:

• Project Management
• Application Development (web, desktop and mobile)
• Database Design, Implementation and Administration
• Solution Architecture
• Network
• Business Analysis
• Technical Writing and Training
• Data Conversion and Data Collection

Maintaining a full time resource pool allows for inherent knowledge of a resource's skill set, technical experience, and training. When augmenting our staff with additional resources through subcontracting, GIS Solutions teams with known vendors that we have previously collaborated with. Often able to utilize the same personnel on subsequent projects.

For any new applicants that GIS Solutions evaluates, extensive confirmation occurs against the claims made as to the applicant's skill set, work experience, certifications, training and education. Depending on the skills being examined, sample work items such as code and design documents may be requested.

GIS Solutions has successfully executed similar contracts with other clients for on-demand or on-site work engagements. GIS Solutions has maintained a contract with the Illinois Department of Transportation for on-site personnel and has placed resources on-site since 2001. GIS Solutions has been providing a wide range of support services to the Honolulu Board of Water Supply through an on-demand support contract. GIS Solutions has completed numerous projects for a variety of Illinois State Agencies since 1992 – often in response to a Request for Proposals (RFP) or through a maintenance contract to assist with a range of services as requested by the client.

GIS Solutions is an Esri Silver Business Partner and, under the previous partner model, was an authorized Esri Software Developer, Distributor, and Consultant. At the 2002 Esri Worldwide
Business Partner Conference, GIS Solutions was named Foundation Partner of the Year. In 1999 and 2001, we received the award for Esri Midwest Business Partner of the Year.

In 2004, GIS Solutions was recognized by ILGISA for outstanding contributions to the GIS community in the State of Illinois. GIS Solutions was the first private company in ILGISA history to receive this award.

Electronic Knowledge Interchange (EKI) - Electronic Knowledge Interchange is a Chicago-based information technology consulting and implementation firm specializing in the design, development, implementation and management of enterprise applications for large organizations. We specialize in building large-scale applications similar to the present project for both Public and Private sector entities.

Our staff of 70+ project managers, technical architects, business analysts, developers, and subject matter experts has built a sterling reputation as designers and builders of world-class enterprise portals. We build applications that meet high standards for reliability, functionality, usability, and performance at scale. We have technical expertise in multiple application areas and technologies; we maintain the physical and intellectual resources to develop powerful applications and enhancements over time. Our applications have required imagination and innovation to solve challenging issues (i.e., such issues as technical, inter-agency, and operational).

Our client list includes high-caliber organizations such as the City of Chicago, State of Illinois, Wal-Mart, Kraft Foods, Motorola, Northern Trust Company, Northrup Grumman and Bank One. As a result of the quality of our work and our emphasis on client relationships, we have a history of multiple, repeat engagements with satisfied clients in both government and the private sector.
Raptor Software – Based out of Bloomington, Illinois, Raptor Software has been providing technical consulting, software design and implementation to the Illinois Department of Transportation for 10 years. The President, David Cheley, has over 20 years of experience in application design and development using all Microsoft technologies and is an expert in custom web application development of SharePoint websites. Mr. Cheley has experience in a variety of industries such as Transportation, Government, Law Enforcement, Utilities, and Finance. In addition to IDOT, Mr. Cheley has worked with organizations such as the Illinois State Police, Accuride Corporation, Detroit Diesel and the HON Company.

**Project Team Experience**

**Vendor Experience Response 1 b)**

The GIS Solutions staff and sub-contractors have extensive experience in the areas of Project Management, Esri technology, Microsoft development environments, Web Services (SOA) REST, SOAP, .NET programming, system and business analysis and web and desktop development and Integration. The number of years our staff and subcontractors have in key areas are highlighted below.

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Level of Experience

Project Management –

GIS Solutions has a rich history of managing GIS projects. Mr. Jim Conlon has been managing GIS projects as a senior consultant for GIS Solutions for over 16 years and received his certification as a Project Management Professional from the Project Management Institute. We understand that successful software development projects require good planning, knowledge transfer, and project management. Our Project Managers drive the successful completion of projects using industry standard practices, from project kick-off meetings to review and acceptance of deliverables. They understand technical and management issues and facilitate communication between clients and the technical team.

Project Methodologies –

The GIS Solutions team has experience in managing and implementing projects from both the traditional, waterfall approach as well as adopting agile methodologies and executing a project from an iterative, incremental approach.

Numerous GIS Solutions projects have been completed successfully using the traditional project management methodology of sequential project phases of project planning, requirements collection and analysis, design, development, testing and training. Employing classic project management practices such as scope management; risk identification and monitoring; and change management has contributed to our proven track record of delivering successful IT projects. While this structured approach has advantages, it also carries disadvantages which have led many organizations to implement alternative methods to software design and development.

More and more GIS Solutions projects are adapting the Agile philosophy, primarily utilizing the Scrum methodology. The basic premises of Agile are continuous communication with the product owner, continuous requirements analysis, continuous design, continuous integration and continuous testing. Breaking down the business needs into smaller work items, results in routine deliverables of working software. At the center of the Agile philosophy is a set of ceremonies and activities. The GIS Solutions team has participated in all the various Scrum ceremonies such as Product Backlog Planning, Iteration Planning, Iteration Demo and Retrospective and the daily Scrum. Activities include Planning Poker, Prioritizing, and Task Estimating. While Agile teams are viewed as cross functional with no real ‘roles’ assigned, members of the GIS Solutions team have served as Scrum Master, Developer and Tester. The GIS Solutions team uses Visual Studio Team Foundation Server as the main collaboration tool during Agile projects.
GIS Solutions has also participated on projects utilizing a combination of the two approaches. Often an organization is not ready to fully commit to an Agile method of project execution but is willing to adopt known aspects to improve the project. The main concepts - strong product owner involvement; iterative releases in order to obtain constant user feedback; accepting that changes to scope and requirements will occur and support actions to discover those changes sooner rather than later - increases the success of any project.

**Esri Product Suite**

GIS Solutions offers access to a complete range of geospatial solutions, from enterprise wide, server-based technology, to desktop display and query tools for viewing GIS data on the job, to Internet solutions like Esri ArcGIS Online, Esri JavaScript API, Microsoft Bing Maps, Esri ArcGIS for Server, SOAP and REST interfaces, and Google Maps. GIS Solutions staff have extensive knowledge and practical experience using the Esri software stack and constantly explore opportunities to integrate other technologies. We possess a comprehensive understanding of ArcObjects and experience to quickly design, develop, and implement ArcObjects applications. Our staff have developed custom applications with ArcGIS since the 8.0 release, these include Esri desktop extensions and ArcGIS Server Object Extensions. Additionally, our programming staff have developed custom applications using ArcEngine for custom lightweight GIS solutions; and have begun working with ESRI’s latest desktop software – ArcGIS Pro.

We have significant experience with Esri ArcGIS for Server. Server is a complete and integrated centrally managed server-based GIS for publishing maps, applications and services for spatial data management, visualization, and spatial analysis. GIS Solutions has implemented dynamic routing, geocoding, web services (SOA), Server Object Extensions, geoprocessing, web interfaces, on-line GIS feature creation, editing, and deletion via a web interface. We have been working with ArcGIS for Server since its release.

ArcGIS Online represents Esri’s cloud-based platform that allows members of an organization to use, create and share maps, applications, data and other content. Individual users can access ready-to-use layers and tools, publish data as web layers, collaborate and share map-based information across browsers, tablets and smart phones. ArcGIS Online content plugs seamlessly into ArcGIS Desktop, Web and Mobile applications. GIS Solutions was an early adopter of ArcGIS Online. We have helped our clients implement and manage ArcGIS Online as well as publish numerous web maps and web apps. We have built mobile data capture applications using Esri Collector app available in the iTunes App store and Google Play. We have worked with the Esri WebApp Builder to develop custom widgets for clients as well as the DOJO Toolkit to deploy more specialized widgets that integrate data, web services and maps across the organization.

Our staff have used each release of ArcSDE since the 2.0 release in both Oracle and Microsoft
SQL Server environments. We understand the complexity of the ArcSDE Geodatabase schema and how to integrate ArcSDE in an enterprise environment developing custom applications using the ArcSDE C API as well as ArcObjects.

**Web Services (Service Orientated Architecture)**

GIS Solutions staff are experts in designing and developing web services to support Server Orientated Architecture. SOA is technically the same as "cloud computing", except SOA is generally inside an enterprise, where cloud computing is across the internet. Most SOA generic applications are written as Representational State Transfer (REST) web services utilizing JSON messages.

By building SOA services you gain efficiency in performance by providing coarse-grained methods that perform work on an enterprise server. This off loads processing off of client machines and reduces the number of fine grain calls needed from client to server. The messages between client and server are usually in a JSON format, which is a highly compact means of communication and further lends itself to speed and efficiency.

ArcServer is Esri premier product in providing GIS functionality in an SOA environment and GIS Solutions has extensive experience in customizing and extending its functionality through custom geoprocessing services, Server Object Extensions (SOE), Server Object Interceptors (SOI), and utility COM Objects. These custom methods can be consumed by virtually any client software regardless of what language it is developed in.

**Web Based and Desktop GIS applications**

GIS Solutions staff are experts in all aspects of Esri software implementation, integration and custom development. The GIS Solutions team programmers and developers have proven experience developing web-based applications using tools such as HTML5, JavaScript, REST, SOAP, JSP, ASP, .NET, XML, XSL, JSON and HTML. Our team specializes in developing Internet GIS and web-enabled database applications, as well as database-driven web applications that provide clients with the ability to manage resources and leverage information throughout an organization.

GIS Solutions’ has significant expertise in programming with the Esri Internet Application mapping APIs and tools (including Esri JavaScript API, Esri ArcGIS Online, Esri Web App Builder) and GIS as a service. Our systems capitalize on the enhanced toolsets these APIs provide while consuming customized, private, and publicly available web services. Integrating web services promotes code and application reuse by ready-to-use functionality as service orientated architecture. GIS Solutions has become well versed in developing a full range of web based...
systems that rely heavily on data presentation through synchronization of mapping, reporting and charting of user-defined spatial and non-spatial selection criteria. The components of the applications include integration of ArcGIS for Server web services for map display, analysis, and data access; and ArcGIS Online for data sharing and collaboration.

Another of GIS Solutions’ areas of expertise is programming with ArcObjects in the ArcGIS desktop and server environments. We are well versed in developing cartographic, data management and transportation related applications. Desktop development has been the primary focus for many of our developers producing many applications for map presentation, data editing, data creation and worker task automation. Additionally, GIS Solutions has expertise using the Esri ArcGIS Runtime components to develop native desktop and mobile applications.

Programming (.NET, VB.NET, ASP.NET) and Application Development –

The GIS Solutions programmers/developers have several years of experience utilizing Microsoft technologies. Our developers have experience developing and deploying multiple types of applications: web-based, client/server, and mobile applications. The core skills and competencies include Visual Studio .NET, Silverlight, REST and SOAP interfaces, Microsoft Team Foundation Server, ASP.NET, VB.NET, C# .NET, and SQL Server 2000/2005/2008/2012/2014.

Examples of web-based applications include a management tool for tracking nature preserve activities, a marketing tool for the agricultural foods industry, web services for GIS processing, GeoRecruiter, School Analyst, real-time hospital status monitoring, Common Operating Picture (COP) Emergency Management; and a work order request system. All of these applications utilized ASP.NET, C# .NET, and SQL Server.

Examples of XML web services include remote database synchronization via the internet, geocoding services, routing services, data validation services, and GIS analysis using VB.NET and C#.

Networking and Systems Management (SQL Server and IIS) –

GIS Solutions has been integrating GIS with database formats for over 23 years. We have built and administered ArcSDE databases across all markets and industries. For each application developed, the application requirements are thoroughly assessed to determine the proper database to use. Because of this, we have experience with SQL Server, Microsoft Access, Oracle, and DB2. We have experience deploying applications and databases in a single server, web farm, and database clustering environments. Our core competencies include designing normalized
and denormalized data models, creating various database objects (i.e. tables, views, stored procedures, indexes, and triggers), implementing user and role-based security, building maintenance plans, and data transformation processes. Additionally, GIS Solutions team has experience building data warehouses which integrate GIS technology.

Integration of GIS with SharePoint –

GIS Solutions understands IDOT’s use of Microsoft SharePoint and its role in the business processes within the organization. Over time we have worked with IDOT staff and other contractors to explore the integration of GIS capabilities with SharePoint. In addition, GIS Solutions staff utilizes SharePoint for project management to store documents, status reports, track defects, issues, and risks. Our staff understand how to manage the workspace; creating new lists, data-input interfaces, and document management pieces.

Geodatabase Implementation and Administration with SQL Server –

We consider geodatabase design, development, and deployment a core competency. Some applications are driven by existing database infrastructure, while others require application specific data models. GIS Solutions develops GIS databases that integrate with existing organizational infrastructure all of which require extensive knowledge and experience with the geodatabase format, including: geodatabase design and development; conversion of various data formats (shapefile, KML, text, GPS, coverage, coverage annotation, CAD, and CAD annotation) to file, personal, and SDE geodatabases; creating, editing, and integrating data; defining and editing topology rules; validating topology; creating and editing relationship classes; and defining attribute domains and creating subtypes.

Our geodatabase design and implementation process includes the facilitation of design meetings with user teams to properly specify geodatabase and application design alternatives. This step is completed in the planning phase of the Project Workflow Model. The GIS Solutions developers have expert knowledge in geodatabase development with SQL Server.

Integration of GIS with Common Database formats –

GIS Solutions has been integrating GIS with database formats for 21 years. We have built and administered ArcSDE databases across all markets and industries. For each application developed, the application requirements are thoroughly assessed to determine the proper database to use. Because of this, we have experience with Microsoft Access, MSDE, SQL Server,
and Oracle. We have used SQL Server for the majority of the applications. We have experience deploying applications and databases in a single server, web farm, and database clustering environments. Our core competencies include designing normalized and denormalized data models, creating various database objects (i.e. tables, views, stored procedures, indexes, and triggers), implementing user and role-based security, building maintenance plans, and creating geospatial data processing packages.

Systems and Business Analysis –

GIS Solutions staff has been performing business process analysis, GIS needs assessments and strategic planning for 18 years. Over the past 23 years, GIS Solutions has conducted more than 500 GIS projects, including systems analysis and needs assessment projects. Many of the new standard models for organizing enterprise GIS data resources and defining GIS applications tools are a direct result of these projects and the research into using GIS to improve governmental business functions.

Training –

GIS Solutions has been conducting GIS training for over 23 years at all levels of skill and technology. GIS Solutions staff have also prepared and presented several custom training sessions for clients based on specific applications and users. GIS Solutions has worked to support the progression of IDOT’s significant GIS training program that has grown and expanded to cover other state agencies and units of local government.

High Profile/High Visible Projects

Vendor Experience Response 1 c)

GIS Solutions key to managing high profile/visibility projects under time constraints does not necessarily align with any particular project management process. We stress understanding the business and technical requirements to determine how to proceed. Fundamental to our success is task to resource alignment and complete resource dedication. This means working early, late and on the weekends. We believe under high profile situations; success is gauged by ability to deliver – not the project management philosophy followed.

GIS Solutions worked with IDOT staff in development and support of the Oversize Overweight permitting system. Portions of this project follow industry software development processes while other portions require quick response for changes and deadlines. The Illinois Transportation Automated Permit (ITAP), a web-enabled on-line system that accepts
applications for over-dimension and overweight permits, accepts payment via credit card, electronic funds transfer and escrow and bonded accounts and issue the permits electronically. Core to this system is a GIS based navigation system that selects optimum routes based on dimensions of the vehicle and obstructions (clearances) and restrictions at the time of the proposed move. Because of its dynamic nature and significant impact on Illinois economy; the ITAP system is both a high profile and high visibility implementation and maintenance application. GIS Solutions staff work hand-in-hand with IDOT permits staff to respond to changes and deadlines that impact the safe movement of large loads on Illinois roadways.

Duke Energy has a short timeline with the massive system integration project. Patrick Engineering serves as the prime contractor, but they bought GIS Solutions in as a sub-contractor when they realized they were shorthanded and needed skilled staff to augment their own. GIS Solutions staff have been doing work on the mobile side (MVVM, ArcGIS runtime, Windows UWP) and working on the backend integration Maximo with their enterprise ArcGIS setup (ArcGIS server, Server Object Extension, Web methods integration). The mobile side is Agile development with two week sprints and the enterprise side is using waterfall methodology for planning. However, both sides have the same final deadlines to meet and integrate with the rest of the 100s of developers working on the project rollout.

GIS Solutions worked with IDOT staff and other contractors to implement the Fiscal Management Information System (FMIS). The Federal Highway Administration (FHWA) required the State Department of Transportsations to either use a FHWA provided web-based application or build a system for electronic submittal of project data. In addition, FHWA required states provide “location” information with projects submitted for reimbursement. FHWA imposed a series of deadlines and go live dates all while continually altering their code base and data interface. With the continuously changing go-live dates and system requirements, the IDOT team successfully implemented their custom solution. This project was high profile/high visibility for the Department as the process is required for Federal reimbursement.

These examples are indicative of our corporate philosophy and corresponding response. Our goal is delivery of the desired result, understanding factors will influence project direction when the pressure is on all parties. A key factor in this philosophy is we will inform the client when our due diligence and expertise indicates success is not achievable under the current scenario. We will use our experience to provide alternatives and suggestions optional paths.
GIS Transportation Level of Experience/Qualifications

Vendor Capability Response 2 a) Transportation Applications and Analysis -

GIS Solutions has worked in conjunction with IDOT GIS and Bureau of Information Processing staff on a number of GIS database and application projects over the past several years. The scope of the collective work ranges from development of the production GIS data sets (developing routes and route systems based on the linknode geometry and iHIS data attributes) to development of numerous applications both for desktop users and intranet/internet users. All major work efforts were developed as "team products" in conjunction with IDOT staff members. GIS Solutions has a deep understanding of the current IDOT GIS configuration, data and applications. Following is a list of products/applications which have been developed by GIS Solutions, either as primary developer or as secondary developer along with IDOT staff.

Recent Projects

ArcGIS Online Application Development

Over the past couple of years, GIS Solutions has been working with IDOT staff to take advantage of ESRI’s cloud-based GIS platform ArcGIS Online. Below is a list of feature applications:

- Developed data to collect American Disability Act (ADA) features for IDOT District 1. The ADA features included crosswalk, audible pedestrian signals, curb ramp, and sidewalks. The information was collected by a number of District 1 consultants using Esri’s Collector app with an iPad. The status map was made available using a web map on ArcGIS Online. The application enabled the collection of over 100,000 records that included pictures of essential assets.
- Developed and automated updates to District 6 Studies and Plans Check Sheet. Project Engineers often have to wait about 6 months to receive updates or changes to their projects. The automation procedure uses a combination of FME and Python scripts to update data on SDE. The procedure allows updates to become available the following day. Project locations are accessible to Project Engineers through ArcGIS Online maps.
- Created a prototype to display salt consumption by District using the Operations Dashboard. The application uses data from SQL Server to display salt data by location. The dashboard uses a combination of charts and maps.
- Worked with Esri to create a Traffic Information System site on ArcGIS Online. The site consists of dynamic message signs, road construction, closed roads, traffic cameras, traffic feed, and weather radar. The site is to deliver information to drivers that could impact their
journey. Python scripts are used to update the information every 10 minutes.

- Assisted Mapping and Graphics Group to create an employee services ArcGIS Online site. The site displays locations for drug testing. The site also helps locate hotels that offer discounts to State employees.
- Converted District 8 Travel Information site to consuming an ArcGIS Online web map. The web map uses map services from IDOT ArcGIS Server, traffic feed from HERE, and web camera images. The camera images are updated every 10 minutes using FME.
- Created a prototype that uses ArcGIS Online web map to replace Getting Around Illinois. The current version of Getting Around Illinois uses the Esri JavaScript API. The prototype will have the same layout as before but it is responsive.
- Created web map and data for District 4 that would allow them to locate ADA assets. Collection of data can either be on ArcGIS Online or using Esri's Collector app. Automated updates to District 4 PPS using FME and Python. The data is presented to users via ArcGIS Server and ArcGIS Online.
- Created a prototype road closure application using ArcGIS Online. The application allows authenticated user to enter emergency road closures and an HTML page of the closures. This was created in response to the lack of a map to represent the closure list from the IDOT website.
- Created an ArcGIS Online site that will allow them to view and edit MMI projects. A CSV file was created from SQL Server using FME and loaded into a web map on ArcGIS Online.

GIS Application Development

Illinois Transportation Automated Permit (ITAP) (Permits) - Over the past several years, GIS Solutions worked with IDOT staff in development and support of the Oversize Overweight permitting system. ITAP is a web-enabled, on-line system that accepts applications for over-dimension and overweight permits, accepts payment via credit card, electronic funds transfer and escrow and bonded accounts and issues the permits electronically. Core to this system is a GIS based navigation system that selects optimum routes based on dimensions of the vehicle and obstructions (clearances) and restrictions at the time of the proposed move. Over 95% of the 200,000 permit applications each are auto-issued, requiring no human intervention.

Fiscal Management Information System (FMIS) (Project Control) - GIS Solutions worked with IDOT staff and other contractors to implement the FMIS application. FHWA required State Department of Transportation to provide "location" information with projects submitted for reimbursement. This required IDOT to provide key route and station values as part of the FMIS data transfer. The FMIS system has to interface with existing Illinois Highway Information System and Program Planning system to get project and location data attributes.
AgileAssets Implementation (Operations) - IDOT is in the midst of replacing a core business system, MMI; with a hosted AgileAssets software implementation. In order for the roadway infrastructure and assets to be spatially managed, AgileAssets needs regular updates of the State Key Route layer along with district areas, and team and subsection area. This was achieved through the development of a custom geoprocessing service that is exposed as a service on ArcGIS Server, using CI and ArcObjects. An asynchronous call is made to the geoprocessing service; which kicks off the process of extracting the current key route layer to first a staging table in SQL Server using SQL native spatial data types and then to upload the data in to AgileAssets’ hosted ORACLE database as SDO geometry. The service keeps track of the progress of the extract through a job ID, which can be retrieved from the service by polling the status of the job.

GettingAroundIllinois.com (BIP) – The GIS Solutions team continues to work with IDOT staff to support and enhance the GettingAroundIllinois.com web site. This application presents IDOT traveler information and IDOT business data to the public in a mapping interface. The data presented is continuously updated and includes road construction, traffic counts, airports, obstructions and restrictions, roadway functional class, roadway weather information system, Planning and Programming (Annual Program, Multi-year Program, and For-the-Record), and other maps. The site receives hundreds of thousands hits per year.

Winter Road Conditions (BIP) – The GIS Solutions team continues to work with IDOT staff to support the Winter Roads Conditions data flow and website. Road condition information gathered by snow plow operators and received in the CommCenter is entered into a data repository. This data is then processed and presented in a map as part of the GettingAroundIllinois application. This site receives significant traffic during a storm event and provides valuable information to the traveling public.

Illinois Highway Information System IHIS (OP&P) – The GIS Solutions team continues to work with IDOT staff and other contractors to support and enhance the IHIS line of business application. IHIS consists of the Roadway Inventory system and the Structure Inventory system. Display and access to any of the different edit modules is controlled by the end user’s active directory account. Users can select routes for editing via the map, content dialogs, or route number entry. Once a route has been selected; the map, data grid, and edit tab stay in-sync based on active record(s). As part of the Illinois Highway Information System, GIS Solutions has implemented a .Net ArcGIS Server Object Extension exposed as a web service to retrieve information on key routes and their associated reference points. The service can be consumed through both web and desktop clients. In addition, our team worked with IDOT staff and other contractors to develop the ArcGIS desktop component of the roadway inventory route
management. This application is used for linear reference system editing and management, offering a series of alignment tasks to create routes, edit routes, move intersections, edit calibration, improve accuracy, etc.

Program Planning System (PPS) (OP&P) - IDOT's Program Planning System is the system of record for the Annual and Multi-Year roadway improvement projects. GIS Solutions staff are working with IDOT staff to rebuild this system and provide a robust integrated mapping interface. A DOJO widget was developed in order to facilitate users to enter, change and remove project location through a map interface. By allowing users the ability to visually see and edit the project location on a map it can be done with ease and ensure a higher level of accuracy. The tools make calls to a Server Objects Extension (SOE), to display the measures on the Key Route layer in a head ups manor to the user. This ensures that the user knows the exact location they are working with when utilizing the tools. This along with dynamic snapping provides a layer of quality assurance that would not otherwise be provided in a tabular format. Users can easily query and locate key routes by their associated Inventory Numbers and there are several base maps and reference layers to gather surrounding information from. The widget was developed in such a manner that it can be easily ported to any application in need of data entry based of the Key Route Layer. To ensure the best performance from the widget it has been processed to be packaged as a custom dojo build, which minifies the code and reduces calls to the server.

ArcGIS for Server and Database Infrastructure Upgrade (BIP) – GIS Solutions is working with IDOT staff to upgrade versions of the GIS server software. The extensive use of GIS technology by the Department and the lack of backward capability of the latest version of Esri software required a “Greenfield” implementation. The team is in the last phase of this project with Development, Test, QA, and one production site in place. The remaining production site has been requested from the Departments infrastructure provider. GIS Solutions worked with IDOT staff to conduct analysis of existing load and expected growth to design needed GIS architecture.

ArcGIS Desktop Upgrade (BIP) – GIS Solutions worked with IDOT staff to identify and rebuild ArcGIS desktop “extensions” to modern ArcGIS Desktop “Add-Ins”. The ArcGIS Desktop 10.x versions do not support the previous development models. Consequently, several Add-Ins needed be built for various areas in the Department including Design & Environment, Program Planning, Operations, Traffic Safety, Bridges and Structures, and the District offices. These Add-Ins supported project analysis, roadway inventory editing, Bridge Analysis, and Crash Analysis.
Crash Information System GIS Migration (Traffic Safety) - GIS Solutions worked with the Division of Traffic Safety on migration of a series of web services to support location of vehicle crashes. The map services needed to be rebuilt as the GIS server software supporting the mapping and location services was being retired by Esri. The team built and tested services to support location of years moving forward as well as required relocation of previous year crashes.

HERE Data/Data Download Process (BIP) – GIS Solutions developed a process to take out-of-the-box HERE/NAVTEQ data and deliver it in a format suitable for use in IDOT GIS applications. GIS Solutions continues to support the download interface for GIS Transportation Coalition members to receive their initial data and quarterly updates.

Historical (2005-2010)

GIS Application Development

- Illinois Highway Information System (OP&P) - GIS Solutions worked with IDOT staff to migrate the roadway inventory system from the mainframe to a windows architecture. This system consists of two major components: an Esri ArcGIS desktop application for linear reference system editing and management and a Silverlight web interface for roadway inventory editing and management. Both components were designed to keep route and inventory data in-sync despite the separate client tools. The desktop application offers a series of alignment tasks to create routes, edit calibration, improve accuracy, etc. The Silverlight interface integrates Microsoft’s Bing Maps and ESRI’s Silverlight API to build a line of business application.

- Illinois Highway Information System Web Service (OP&P) – As part of the Illinois Highway Information System rewrite, GIS Solutions has implemented a .net ArcServer Server Object Extension exposed as a web service to retrieve information on key routes and their associated reference points. The service can be consumed through both web and desktop clients

- Zip+4 Validation Web Service (BIP) – GIS Solutions built an XML based web service for validation of Zip+4 against the United States Postal Service Address Information System products. The data is updated from USPS each month. IDOT is responsible for reporting to FHWA the location of projects based on zip+4. This service ensures that the zip+4 associated with a project is valid.

- IDOT Crash Information System Locator Web Service (Traffic Safety) – GIS Solutions continues to work with the Division of Traffic Safety on development and enhancement of a series of web services to support location of vehicle crashes.
- **LARS Web Service (Traffic Safety)** - GIS Solutions developers worked with IDOT staff to develop a web service that would return the LARS code of the participating city. A segment of road is represented by a LARS code and a LARS street code. The web service uses a coordinate that returns the LARS code along with the address.

GIS Data and Database Development

- **OSOW Data Processing** – GIS Solutions has worked extensively with IDOT staff to evaluate and process in conjunction with efforts to deploy Bentley’s automated permitting application. Over the course of project, we have been involved in trying to resolve “veracity of the data” issues in order to properly feed the Bentley system.

- **Stimulus 360 Data Processing** – GIS Solutions, with IDOT staff, to create location information in support of the Illinois Recovery web site. We processed education, health and human services, transportation, public safety, energy and environment, and work force development. GIS Solutions determines project location and associated Illinois House district(s), Illinois Senate district(s), U.S. Congressional district(s), and Illinois counties(s) impacted.

- **ARRA Data Processing** – In conjunction with the Stimulus 360 data processing noted above, GIS Solutions, with IDOT staff, to create location information in support of the departments ARRA reporting. Reports to FHWA require a zip+4 and other pertinent information. We helped with setting the processes to determine zip+4 and provided zip+4 validation services. We wrote a process in SQL Server to validate over 2.5million zip+4 zip codes. The new process can be completed in several hours rather than days using another method.

- **NAVTEQ Data/Data Download Process** – GIS Solutions continues to provide a process to take out-of-the-box NAVTEQ data and deliver it in a format suitable for use in IDOT GIS applications. GIS Solutions provides the download interface for GIS Transportation Coalition members to receive their initial data and quarterly updates.

- **Vertical Clearance GIS Data Set** – GIS Solutions, in conjunction with IDOT staff, developed a process that builds a complete GIS data set necessary to analyze travel over state maintained roads for overweight and/or oversize vehicles. Included are vertical clearance and weight limits as well as temporary and permanent restrictions to travel. The data set was built as an enterprise SDE dataset and relates point and linear restriction features to the Illinois roadway system (IRIS).

- **Safety Analyst Data Processing** - The Safety Analyst software package developed for the Federal Highway Administration (FHWA) requires a dataset which is both complex and adherent to specific standards set by the FHWA. Requirements include data related to roadway segments, intersections and the relationship of intersections to roadway segments. IDOT production data includes many components required to build these data sets, but is not designed to meet these requirements without significant enhancement. GIS Solutions has developed a process to build the required data sets from IDOT production roadway data.
ArcGIS 9x:

- **Illinois Highway Information System (OP&P)** – Worked with IDOT staff and other contractors to develop the ArcGIS desktop component of the roadway inventory mainframe migration. This application will be used for linear reference system editing and management, offering a series of alignment tasks to create routes, edit routes, move intersections, edit calibration, improve accuracy, etc. Through implementation of various web methods, the Silverlight web component was designed to keep route and inventory data in-sync despite the separate client tools.

- **Permits Routes Viewing (Highways)** – Worked with IDOT staff in the permits section to develop a ArcGIS ArcMap application to support OSOW permit issuance. The application allows for input and update of restriction and vertical clearance data in a central repository and provides query capabilities for display of impedances based on truck characteristics of a permit applicant.

- **Data Verification ArcGIS 9.x Project Updates (OP&P)** - Worked with IDOT staff to develop enhancements to the Data Verification ArcMap 9.x project. The Data Verification project is a key tool in IDOT’s data maintenance efforts, used by over one-hundred staff.

- **Crash Analysis Image Access (OP&P)** - Worked with IDOT staff to develop and deploy an enhancement to the crash analysis toolbar to allow access of crash report images.

Internet / Intranet Applications

- **Illinois Highway Information System (OP&P)** – Worked with IDOT staff and other contractors to develop the Silverlight web component of the roadway inventory mainframe migration. This Silverlight interface integrates Microsoft’s Bing Maps and ESRI’s Silverlight API to build a line of business application. Display and access to any of the seven different edit modules in controlled by the end user’s active directory account. Users can select routes for editing via the map, content dialogs, or route number entry. Once a route has been selected; the map, data grid, and edit tab stay in-sync based on active record(s).

- **Illinois Recovery.gov Interactive Map (BIP)** – Worked with IDOT staff to create an interactive mapping application for the Governor’s State of Illinois – Illinois Recovery web site using the Esri Adobe Flex API and Microsoft Bing Maps. The site is based on an Esri template. However, several application changes were implemented to adjust the user interface, process data, display data, and standardize data connections.

- **I-ROADS (OP&P)** – Worked with IDOT staff to develop and implement two versions of the Illinois Roadway Analysis Data System. The initial version of the application was a mapping application using a customized ArcGIS Server web template. The next generation is a Silverlight application that takes advantage of Microsoft Bing...
Maps. This application displays via a web interface the condition of the road, the rate of deterioration, the roughness index and other roadway information. Historically, this data was available electronically, but a hardcopy map was the official product. I-ROADS creates a digital representation of four former hardcopy map series; CRS, IRI, RUT, and NA.

- **Bridge Information Web Access (Highways)** – Worked with IDOT staff to develop and deploy a mash-up using Bing maps to depict the location and other detailed information on bridges. The public can query bridge information using both attribute and location based tools, view inspection reports, and bridge construction characteristics.

- **GettingAroundIllinois.com (BIP)** - Worked with IDOT staff and management to begin rewrite of the GettingAroundIllinois.com application with the goal of modernizing the interface and enhancing the user experience. The new application will include a data download library and a traveler services section. IDOT business data will be separated from traveler information to reduce cluttering and confusion.

- **Construction Dashboard (Highways)** - Worked with IDOT staff to implement a construction dashboard mash-up using Google maps to depict the location and status of projects. This site is integrated with construction dashboard query component.

- **St. Louis Metro Traffic (District 8)** – Worked with IDOT staff to develop the Metro-East St. Louis Travel Information site which provides traffic and roadway information to the traveling public via a Google maps mash-up. Included on the interactive mapping site are current traffic flow indicators, current speed of travel, incidents, road work, real-time traffic camera feeds, and dynamic message board postings. This information is updated automatically from District 8 data sources and refreshed every 90 seconds.

- **Local Safety Services (Traffic Safety)** – Worked with IDOT staff and other contractors to develop an application for external Users, primarily County Engineers to have access to Crash Data for ad hoc queries, including spatial display and selection of crashes. The solution combines a web-based analysis tool with an Esri Silverlight API and Microsoft Bing Maps mapping interface. The benefit of an application that provides crash data is to have data-influenced decisions on where safety dollars can be used to improve the safety of local roads.

- **Fatal Crash Summary (Traffic Safety)** – the crash data provided is provisional and is based on information submitted to IDOT for crashes occurring on all public roadways within the state. The data is updated as information is received from various agencies throughout the state. IDOT is dedicated to the maintenance and improvement of these data and welcomes any comments about their content, format or utility.

- **Van Images Viewer (OP&P)** – In Beta testing. Worked with IDOT staff to develop a Silverlight roadway image viewer integrating road condition photos, user
preferences, and BING maps that displays a vehicle icon as the active images progress down the roadway.

- **NAVTEQ Data/Data Download Process** – GIS Solutions developed a process to take out-of-the-box NAVTEQ data and deliver it in a format suitable for use in IDOT GIS applications. GIS Solutions provides the download interface for GIS Transportation Coalition members to receive their initial data and quarterly updates.

**Other GIS Application Development**

- Crash Information System locator (*Traffic Safety*).
- Crash Information System Route Return (*Traffic Safety*).
- Feature Snapping Web Service (*BIP*).
- MCR Locator Updates Version 1.5 (*BIP*).
- Data Verification ArcGIS 9.x (*OP&P*).
- County Maps (*Mapping & Graphics*).
- Data Conflation – Phase 1 and Phase 2 (*BIP*).
- ArcGIS 9.x Data Comparison Tool (*OP&P*).
- ArcGIS 9.x Link-node Maintenance Application (*OP&P*).
- ArcGIS 9.x Local Truck Routes Data Input (*Operations*).
- ArcGIS 9.x Traffic Safety Toolbar (*BIP*).
- GettingAroundIllinois.com (*BIP*).

- Safety Data Mart GIS Interface (*BIP*).
- Designated Truck Routes (*Operations*).
- Fatal Crash Summary (*Traffic Safety*).
- Esri 9.x ArcIMS Application Migration (*BIP*).
- District 1 Permits Locator (*BIP*).
- Safe Routes to Schools GIS Interface (*BIP*).
- OACS (*BIP*).
- GIS Training (IDOT).
Management and Customer Relations

Vendor Capability Response 2 b)

Project Manager – Jim Conlon, PMP (GIS Solutions, Inc.): Mr. Conlon will provide IDOT senior management with a single point of contact for all non-technical communication regarding contract performance issues: goal-setting, staffing, personnel performance, and financial considerations. He has been working in the GIS field for over eighteen years and served as a project manager for more than fourteen years. He has been working at IDOT in various roles for much of this time. This experience provides a solid foundation to assume the Project Manager function for the proposed effort. Mr. Conlon will function in a hands-on fashion and will have a strong GIS presence at the IDOT. He has a valid PMP certification through the Project Management Institute.

President – Tim Johnson (GIS Solutions, Inc.): Mr. Johnson is President of GIS Solutions and one of its two cofounders. As President, he is responsible for day-to-day operations, formulating company strategy and customer service. Mr. Johnson has over 35 years of GIS experience working with both private and public sector clients including numerous Illinois state agencies, local units of government and federal agencies. He has also developed a strong working relationship with HERE and is GIS Solutions’ point-of-contact with that company. For over a decade, HERE has used GIS Solutions as its go-to-partner for geo-spatial application support required by the customers it serves. These clients include AT&T, State Farm, Florida DOT, New York Office of Cyber Security, NGA, and USDOT.

Controller - Cheryl Wise, CPA (GIS Solutions, Inc.): Ms. Wise is responsible for all financial operations at GIS Solutions, Inc. including billings, collections, payroll and cash management. Her other primary duties comprise of contractual review and compliance, employee benefits administration and insurance procurement. Ms. Wise has been employed by GIS Solutions, Inc. since 1999 and has worked exclusively in these roles successfully meeting the contractual financial related obligations of GIS Solutions, Inc. and its clients. Prior to her employment with GIS Solutions, Inc. Ms. Wise worked in public accounting auditing state and local governmental units as well as providing tax and auditing services to private industry.

Business Analyst – Jennifer Gorrie, PMP (GIS Solutions, Inc.): Ms. Gorrie will work closely with the Project Manager to establish and maintain excellent customer relations with IDOT business owners and other stakeholders. Ms. Gorrie has served as both a Project Manager and a Business Analyst on numerous Illinois State Agency contracts and understands the complexities involved when balancing business needs and contract limitations. Through her experience as a project technical lead, she is able to act as a liaison between the technical and contractual facets of an
Agency and provide outstanding customer support to meet the Agency’s project objectives. Ms. Gorrie has successfully worked with various IDOT business areas and is familiar with the organizational structure of IDOT. She has a valid PMP certification through the Project Management Institute.

**Technical Staffing**

**Vendor Capability Response 2 c)**

GIS Solutions recruits technical professionals in a variety of ways, all designed to meet the same end; the hiring of the best-qualified staff for the position. Best-qualified refers to two areas of competence: 1) technical capabilities – the ability to meet the technical and development demands of the position and 2) interpersonal relationships – the ability to work with other developers and client staff in a professional, team-oriented manner.

Staff recruitment can occur via many vehicles; position postings on the GIS Solutions web site, position postings at major GIS / IT professional conferences and seminars, postings on technology-focused web sites, and personal knowledge of qualified candidates.

All candidates must provide resumes which detail and document their qualifications. Verification of qualifications is achieved through reference checks; personal interviews; and, where appropriate, through examination of code and documentation written by the candidate. Specific education requirements are verified through reference checks and transcripts.

The GIS Solutions retention rate over the course of the company’s history is 92 percent. GIS Solutions makes a concerted effort to retain talented resources by offering competitive salaries and benefits, including full health, dental, life and disability insurance coverage, a 401(K) retirement plan, as well as both monetary and vacation bonuses. GIS Solutions also provides a challenging and interesting work environment, the company offers a wide variety of GIS consulting services which allow employees to build and utilize a broad range of skills. Finally, GIS Solutions firmly believes in professional development and consequently provides frequent training opportunities to staff in order to maintain a cutting-edge knowledge of the GIS and IT industries. Employees are sent to periodic development conferences which focus on leading edge technologies and solutions.
Screening of potential technical resources is a multi-step process. Work experience is first screened by checking the candidate resume. References are required and checked to ensure an accurate accounting of work experience by the candidate.

Technical skills are first assessed by a telephone interview. Promising candidates are then interviewed personally by GIS Solutions senior technical staff to assess the candidate’s true skill level. References are checked to provide additional verification of a candidate’s skills. Finally, promising candidates are asked to provide code and document samples and to discuss the development of the code. Senior technical staff review and critique the code samples to ensure that the candidate truly possesses the required skill set.

Education is first assessed by review of the candidate’s resume. Candidates are requested to provide transcripts of completion for formal educations. Certifications are first checked by review of the candidate’s resume. Candidates may provide additional information and documentation of certifications during the interview process.

When required, the services of a security firm are obtained to have background and criminal history checks completed on prospective employees.

The number of resources required on a project is directly correlated to the scope and deliverables needed to meet stakeholder expectations. If the GIS Solutions bench team cannot provide the number of resources required or the resource area of expertise does not meet the skill set of the position required, subcontractors may be utilized.

GIS Solutions has successfully completed numerous projects using subcontractors to extend and augment the services provided to a client. A previous project primed by GIS Solutions included managing resources from 3 subcontracted vendors, in 3 different states, performing a wide range of services for a multi-million dollar contract. That project was completed on time and within budget. GIS Solutions is currently managing subcontractors at the Illinois Department of Transportation and has been effectively using the same resources since 2008. GIS Solutions maintains excellent relationships with other industry vendors and often uses the same resources on subsequent projects. This inherent knowledge of other vendors and the staff skills and personalities lends well to acquiring the right resource quickly for a project. If an applicable resource cannot be located through an immediate relationship, a request may be made to other known vendors.

Since GIS Solutions has been providing IT/GIS services for over 23 years, we also have a wide range of knowledge of other industry vendors in Illinois and are keenly aware of their performance and reputation. Through our extensive network of clients, industry contacts and employee contacts, we will be able to secure the most appropriate resource. Any subcontracted
resource will go through the GIS Solutions process of assessing and validating the skills and training of any potential candidates.

GIS Solutions will monitor and assess each resource’s performance routinely. The type of project and length of project will determine how frequently a performance assessment is conducted. The frequency will be agreed upon by the GIS Solutions Project Manager as well as the Agency-appointed Project Manager or point of contact. The assessment will include elements such as review of technical work; input from members of the Agency project team; input from members of the GIS Solutions project team; review of notes from the previous performance assessment; identify any potential problems or conflicts; and setting project performance goals to be met for the next scheduled performance review.

GIS Solutions has placed many consultants and has never faced the situation in which an Agency has requested removal of a consultant. However, in the unlikely event that a future request occurs, GIS Solutions will immediately remove the consultant.

In the unlikely event that GIS Solutions is asked to remove a consultant, GIS Solutions will utilize its' qualified bench staff to replace the removed consultant. Replacement will occur within five business days unless a different time frame is mutually agreed upon with the Agency.

Should a consultant be replaced, GIS Solutions will ensure that the replacement is oriented as quickly and as thoroughly as possible given the project in question. GIS Solutions will not charge the Agency for any time spent by the replacement consultant which is used for the purpose of orientation.

GIS Solutions project management will meet with Agency management to determine an appropriate orientation time for a replacement consultant. The agreed upon time will be established in writing and a document stating the time frame will be signed by each represented party.
Placement Matrix

Vendor Capability Response 2 d)

The matrix below identifies the number of placements on a contractual basis to businesses by position description for GIS Solutions in the past three years.

Placements by Position

<table>
<thead>
<tr>
<th>Position</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Manager</td>
<td>5</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Senior Application (.Net) Developer</td>
<td>42</td>
<td>35</td>
<td>29</td>
</tr>
<tr>
<td>Application (.NET) Developer</td>
<td>21</td>
<td>21</td>
<td>17</td>
</tr>
<tr>
<td>Business Analyst</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Application / Software Architect</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Vendor Acknowledgement items 3 through 11

3. **Reporting, Status and Monitoring (Vendor Acknowledgement Required)**
   a. The VENDOR and the AGENCY will work together to monitor performance during the contract and any warranty term. This may include use of a performance scorecard with conditions, milestones, requirements, or timetables that must be met before additional steps may be taken, or payment is due. The scorecard may also record matters related to price, service, quality and other factors deemed important.
   
   Vendor Acknowledgement (initials) [ ]

   b. Vendor shall cooperate with the State in this monitoring activity, which may require that Vendor report progress and problems (with proposed resolutions), provide records of its performance, allow random inspections of its facilities, participate in scheduled meetings and provide management reports as requested by the State.
   
   Vendor Acknowledgement (initials) [ ]

4. **Candidate Qualification and Selection Services (Vendor Acknowledgement Required)**
   a. The VENDOR will maintain current information about formal education, training, certifications and licenses of the proposed candidates. The VENDOR will maintain
current information about skills and experience acquired through similar engagements.

Vendor Acknowledgement (initials) □ Q

b. Before awarding of the contract, the vendor must provide documentation of mandatory requirements for the specific candidates that were submitted in each role. PMI certification must be provided for the Project Manager. Any candidate that is not a US Citizen, vendor must provide a copy of candidates Permanent Residence (“Green Card”). Failure to provide will result in disqualification and the Agency moving to the next highest qualified bidder.

Vendor Acknowledgement (initials) □ Q

c. Upon execution of a contract, the Agency will conduct oral reviews of resumes with candidates from the VENDOR to fill each specific role. Mandatory requirements for PM Certification of PM’s and “Green Card” documentation for all non-US Citizens remains in place for term of contract. If the candidate submitted in the proposal is not available, then the replacement candidate must be equal to or greater than the candidates submitted in the proposal. If the replacement candidates are not at the same level provided in the proposal, the Agency has the right to cancel the contract and award to the vendor with the second highest points.

Vendor Acknowledgement (initials) □ Q

5. Candidate Quality and Availability (Vendor Acknowledgement Required)

a. The VENDOR shall not knowingly offer a candidate who is unfit and unskilled for the work to be performed.

Vendor Acknowledgement (initials) □ Q

b. Candidate knowledge must be sufficient so that training will not be needed to perform the specific work order assignment.

Vendor Acknowledgement (initials) □ Q

c. All work performed by the candidate(s) for the Vendor for this project must comply with the Agency’s established standards.

Vendor Acknowledgement (initials) □ Q

6. Unsatisfactory Performance (Vendor Acknowledgement Required)

a. If, for any reason, the Agency deems any VENDOR consultant’s performance unsatisfactory, upon written request from the Agency, the Vendor will immediately remove such consultant.

Vendor Acknowledgement (initials) □ Q

b. In the event the Agency requests the removal of a Vendor consultant, the VENDOR shall have the option to replace the consultant for the remainder of the assignment with a qualified replacement at the same hourly rate. The VENDOR will use its best efforts to replace the consultant within ten (10) business days unless a different time frame is mutually agreed upon in writing.

Vendor Acknowledgement (initials) □ Q

c. The VENDOR shall make no charge to the AGENCY for time associated with orienting the replacement consultant. Orienting is defined as the process of the consultant becoming acquainted with the Agency environment, etc. The time for getting a new person oriented may vary depending on the project and/or consultant.

Vendor Acknowledgement (initials) □ Q
d. The VENDOR and AGENCY must mutually agree, in writing, to the orientation time frame.

Vendor Acknowledgement (initials) 

7. Inspection and Acceptance of Work (Vendor Acknowledgement Required)
   a. It is expressly understood and agreed all work done by the VENDOR/consultant shall be subject to inspection and acceptance by the AGENCY.

Vendor Acknowledgement (initials) 

b. Any progress inspections and approval by the AGENCY of any item of work shall not forfeit the right of the AGENCY to require the correction of any faulty workmanship or material at any time during the course of the work and warranty period thereafter, although previously approved. Nothing contained herein shall relieve the VENDOR/consultant of the responsibility for proper installation and maintenance of the work, materials and equipment required under the terms of the contract until all work has been completed and accepted by the AGENCY.

Vendor Acknowledgement (initials) 

8. Travel Requirements (Vendor Acknowledgement Required)
   a. The VENDOR is responsible for travel costs of candidates to the assigned work location for oral reviews of resumes and candidate(s) arrival at the assigned work location.

Vendor Acknowledgement (initials) 

b. In the event consultants are required by the AGENCY to work outside of their assigned work location on specific tasks, the consultant will be reimbursed for travel expenses based on the Agency travel policy in place at the time the travel occurs. The travel costs are covered under the Agency travel funds and are not reimbursable through this contract.

Vendor Acknowledgement (initials) 

9. Security Regulations (Vendor Acknowledgement Required)

Candidates shall individually agree to be bound by Agency regulations, policies and standards about security of information systems resources.

Vendor Acknowledgement (initials) 

10. Software Development (Vendor Acknowledgement Required)

Software developed under this contract may not be sold, licensed, leased or otherwise transferred to a third party. This also applies to a VENDOR-developed package where the consultant is modifying the package to meet the AGENCY'S specifications. No VENDOR/consultant may receive royalties for work done under any project as a result of this RFP.

Vendor Acknowledgement (initials) 

11. Ownership of Information and Data (Vendor Acknowledgement Required)
   a. The AGENCY shall have unlimited rights to use, disclose or duplicate, for any purpose whatsoever, all information and data developed, derived, documented, installed, improved, or furnished by the VENDOR/consultant.

Vendor Acknowledgement (initials) 

b. The VENDOR and consultant(s) must agree to deliver to the Agency, upon request and without limitation, copies of all interim and/or final work products, system documentation, operating instructions, procedures, data processing source code and executable programs, that are part of the system.

Vendor Acknowledgement (initials) 

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GIS Solutions, Inc.
c. All computer source and executable programs, including development utilities and all documentation of the installed system enhancements and improvements shall become the exclusive property of the AGENCY and may not be copied or removed by the VENDOR/consultant without the express written permission of the AGENCY.

Vendor Acknowledgement (initials) [Signature]

d. All files containing any AGENCY information are the sole and exclusive property of the AGENCY. The VENDOR and consultant(s) agree not to use information obtained for any purposes not directly related to the contract.

Vendor Acknowledgement (initials) [Signature]

e) VENDOR and consultant(s) must agree to abide by all Agency confidentiality requirements.

Vendor Acknowledgement (initials) [Signature]

D.7. SUBCONTRACTING

GIS Solutions plans to use subcontractors, Electronic Knowledge Interchange (EKI) and Raptor Software. Information on each subcontractor is noted throughout our response with required documents included in appropriate response Packets. These entities are expected to receive $50,000 or more annually under the contract. The expected amount of money each will receive has been disclosed in the Subcontractor Disclosure form found in Section 3 Part I.

GIS Solutions will notify the State of any additional or substitute subcontractors hired during the term of the contract. If required, GIS Solutions will provide the State a copy of all such subcontracts within fifteen (15) days after execution of the contract or the subcontract, whichever occurs later.

GIS Solutions understands any subcontracts entered into prior to award of the contract are done at the sole risk of our company and subcontractor(s).

D.8. WHERE SERVICES ARE TO BE PERFORMED

GIS Solutions will perform all services in the United States. GIS Solutions is an Illinois based company and understands the economic impact on Illinois and its residents. GIS Solutions understands if any services purchased hereunder are performed in another country; it is in violation of this provision, such action may be deemed by the State as a breach of the contract.

Should GIS Solutions need services performed at different locations, we will disclose the locations where the services required shall be performed and the known or anticipated value of the services to be performed at each location. GIS Solutions is not expecting to

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receive additional consideration in the evaluation based on work being performed in the United States.

GIS Solutions understands that 90-100% of Project Manager and Business Analyst work will be performed at Harry Hanley building. 70% of developers' work will be performed at the Central Office. GIS Solutions understands the Department is open to the utilization of developer resources off-site on a part-time basis and off-site includes working from the District 1 Office in Schaumburg, Illinois.
STATE OF ILLINOIS
ATTACHMENT A - RESUMES

The experience and capabilities of the GIS Solutions staff will bring tremendous value to the Illinois Department of Transportation in support of its activities and mission. GIS Solutions has constructed a project team that will provide technical, management, and systems experts who will meet all requirements with exceptional service.

Resumes are provided for the following positions:

- 1 Project Manager
- 2 Senior Application Developers
- 4 Application Developers
- 2 Business Analysts
- 1 Application/Software Architect

Project Manager – Jim Conlon, PMP

As a Project Management Professional (PMP), Mr. Conlon’s Project Management skills and experience are based on established processes. He accepts the responsibility for communication and delivery of the product envisioned in the Project Charter. He takes ownership of the development life cycle from end-to-end focusing on the main goal: deliver the product by continually communicating on schedule and budget issues. Mr. Conlon charges himself with planning and scheduling duties including developing project and iteration plans, monitoring and reporting status, identifying and managing issues to closure, and identifying and mitigating risk. He regularly consults with business analysts to plan backlog for the project and its iterations, consult with architects, developers, testers, and other team members to estimate work and facilitate communication within the team; 90% of project management is communication.

Mr. Conlon is in the unique position of having knowledge of the Bureau of Information processing project management processes, required artifacts, and workflows. While this is not a requirement of effective project management, it does offer advantages to have this internal knowledge. He has been part of the project management process development at IDOT; watched it mature over time and had input into the process and methodologies. He understands the steps to initiate a project, working with EPM Live and the IT Governance processes, knowledge of CMS projects gates with needed documentation in conjunction with other timelines and milestones, communication through workspace issue listing, defect tracking, meeting minutes, and status reports; and non-tangible institutional knowledge allowing affective management of project activities.
Mr. Conlon is in the unique position of having worked with almost all of the business units of the Illinois Department of Transportation on planning, development, and delivery of GIS specific and GIS integrated application solutions. He has built professional relationships with these business units that open the lines of communication fostering a positive work environment leading to agency wins. He is familiar with future GIS strategies as it relates to delivery GIS capabilities to a broader user base, whether it be through web-enabled applications, concurrent license management, integration of enterprise initiatives, and service-orientated architecture.

Senior Application Developer – Rey de Castro, GISP

Mr. de Castro possesses over 19 years of experience in the IT industry; using object-oriented programming for both client and server side solutions. This includes ArcGIS Online, FME Desktop, GIS web-enabled applications, GIS desktop application, GIS database administration and integration, and graphical user interface design. He is very comfortable writing applications in Visual Studio 2012 and 2015; Python scripts for spatial data integration; WCF RIA Services; .NET for web development and web service development; Esri add-in for ArcMap customization; Microsoft Silverlight; Esri ArcObjects for desktop applications; and Esri ArcGIS Server for GIS web services (SOAP). He is also proficient in writing stored procedures for SQL Server as part of the data tier of N-tier architecture. Most importantly, Mr. de Castro has been building and supporting production GIS applications at IDOT for over fifteen years. He is currently supporting applications used by the Division of Traffic Safety for locating crashes, GettingAroundIllinois.com, ArcGIS online applications, and nearly all web-enabled mapping applications in production at the department.

Senior Application Developer - Mike Maroon

Mr. Maroon has over 23 years system/application design and development experience to include desktop, internet, and enterprise systems and applications. Mr. Maroon has been involved in development of object oriented application development his entire career, focusing almost entirely on GIS solutions and integration. Mr. Maroon has developed multiple software tools and utilities which identify changes in the HERE NAVSTREETS database and integrates those modifications into an existing HERE NAVSTREETS dataset. These tools provide the ability to integrate NAVTEQ database updates into custom datasets with minimal effort and no database downtime. Mr. Maroon has experience developing applications in numerous programming languages and web technologies including: C/C++, C#, Java, ASP.NET, VB.NET, JavaScript, Python, Objective C and SQL.
Applications Developer – Travis Gorrie, GISP

Mr. Gorrie has over 16 years of object oriented programming for both client and server side solutions; this includes GIS desktop applications, GIS database administration and integration, and graphical user interface design. He possesses broad programming experience in the areas of data administration and integration, routing and transportation, and graphical presentation. He is comfortable writing applications in Visual Studio 2003, 2005, 2008 and 2015; WCF RIA Services; .NET for web development and web service development; Microsoft Silverlight; Esri ArcObjects for desktop applications; and Esri ArcGIS Server for GIS web services. He is proficient with programmatically manipulating georeferenced data via ArcSDE and has developed applications using Esri’s entire suite of software. Like Mr. de Castro above, Mr. Gorrie has been building and supporting production GIS applications at IDOT for over 13 years. He currently supports the Illinois Transportation Automated Permits (ITAP) application at IDOT which is used for issuing Oversize Overweight permits.

Applications Developer – David Cheley (Raptor Software)

Mr. Cheley is an IT Professional with over 20 years in technical consulting, software design and implementation. He is highly skilled in the complete lifecycle development of database-drive applications and is currently focused with SharePoint, Business Intelligence and custom web application design and development. Mr. Cheley has worked in numerous different types of industries including Transportation, Government, Law Enforcement, Insurance, Finance, Healthcare, Utilities, Telecommunications, Marketing & Sales. He has worked with IDOT for 10 years and is currently architecting, implementing and upgrading Microsoft Office SharePoint Server 2007, 2010 and 2013 and administering IDOT’s intranet and portals. Mr. Cheley has experience developing applications in numerous programming languages and web technologies including: C#, Java, ASP.NET, VB.NET, HTML, JavaScript, SQL and SQL Plus.

Applications Developer – Jillian Stanford

Ms. Stanford has been involved in development of object oriented application development her entire career, focusing almost entirely on GIS solutions and integration. These solutions are centered on customer and software development accepted standard practices and policies. She has created client server and web-enabled products working in conjunction with project teams and, most importantly, focuses on the assigned tasks to meet defined project requirements. Ms. Stanford currently holds the following Esri certifications – Web Application Developer Associate and ArcGIS Desktop Associate. Ms. Stanford has experience developing applications in numerous programming languages and web technologies including: C#, ASP.NET, VB.NET, ArcObjects, HTML, DHTML, HTML5, JavaScript, Adobe Flex, Silverlight, Python and SQL.
Applications Developer – Devon Munsell

Mr. Munsell is experienced in the Esri desktop software suite and specializes in creating custom tools and applications based off Esri software in a variety of languages and formats. Mr. Munsell has developed GIS tools and applications for the New York State Office of Information Technology Services, Illinois Department of Transportation, the Illinois Tollway, and Kane County Department of Transportation. Mr. Munsell possesses broad programming experience in the areas of data administration and integration, routing and transportation, and graphical presentation. He is proficient with programmatically manipulating geo-referenced data via ArcSDE and has developed applications using the ESRI entire suite of software. Mr. Munsell has experience developing applications in numerous programming languages and web technologies including: C#, ASP.NET, VB.NET, HTML, DHTML, HTML5, JavaScript, CSS, Silverlight, Python and SQL.

Business Analyst – Jennifer Gorrie, PMP

Our lead Business Analyst is Ms. Gorrie. Ms. Gorrie has more than 16 years of experience in the field of GIS. As a Business Analyst for GIS Solutions, Ms. Gorrie has performed business requirements analysis, business process analysis and developed strategic plans for local and state government clients. Prior to her role as a Business Analyst, Ms. Gorrie was a GIS developer. This technical background enhances her ability to clearly understand and communicate business needs and requirements in technical terms and vice versa. Notable IDOT projects include business process analysis and requirements gathering for the Structure Inventory System, the Program Planning System, and the Fiscal Management Information System. Non IDOT projects include a Needs Assessment and GIS Strategic Plan for the Village of Chatham and a Needs Assessment and GIS Strategic Plan for the Illinois Department of Public Health. Ms. Gorrie is currently working as a Business Analyst at IDOT for the Program Planning System upgrade project and serves as the Scrum Master on the Federal Program Management project.

Business Analyst – Max Walker

Mr. Walker has functioned as an Analyst for over 7 years. His areas of expertise are geospatial analysis, map compilation, data entry, development and management of quality control and accuracy procedures. He excels at coordinating GIS activities with project managers and application developers. Mr. Walker has developed data conversion and data migration processes and applications while at IDOT and other client organizations throughout his career. Mr. Walker is skilled at analyzing business operations to determine requirements and specifications. Mr. Walker currently supports the Illinois Transportation Automated Permits (ITAP) application at IDOT which is used for issuing Oversize Overweight permits.
Application/Software Architect – Colin Blair

Mr. Blair has been involved in development of object oriented application development his entire career, focusing database and systems integration. He has been a system architect and developer with thirteen years in the IT industry. His capabilities typically range from analysis, programming and database administration to developer and technical architect. Mr. Blair has demonstrated a talent for quickly acquiring in-depth understanding and knowledge of new technology in order to successfully architect and implement solutions that effectively fulfill business needs. He has also demonstrated his ability to transfer that knowledge to other people, a skill that was recognized when Microsoft award him with MVP awards in 2010, 2011, 2012, 2013 and 2014.

Mr. Blair’s solutions are centered on customer and software development accepted standard practices and policies. He has created client server and web-enabled products working in conjunction with project teams and, most importantly, focuses on the assigned tasks to meet defined project requirements. He understands his role as application developer entails interacting with other development staff, system designers, and management on major decision points, and offering leadership in his areas of expertise.

Mr. Blair possesses broad programming experience in the areas of data administration and integration, transportation, and graphical presentation. He is proficient with programmatically interfacing with GIS technology and the ESRI suite of software. Mr. Blair currently supports the Illinois Highway Inventory System – which is used to manage IDOT’s roadway inventory and the structure inventory. He is also functioning as a developer and the Solution Architect on the Bridge Project Tracking and Reporting Agile project.
PROFESSIONAL EXPERIENCE

Mr. Conlon has over 20 years of GIS experience and has been managing GIS projects for the past 15 years. Mr. Conlon obtained his Project Management Professional certification from the Project Management Institute in 2005.

1998 to Present – GIS Project Manager, GIS Solutions, Inc.

As Project Manager serves as the point of contact for all non-technical communication regarding contract performance issues: goal-setting, staffing, personnel performance, and financial considerations. Has been working in the GIS field for over sixteen years and served as a project manager for more than nine years. Project Management Professional certification from the Project Management Institute was received in August 2005. Before Project Management responsibilities, worked as a GIS Applications Developer responsible for the development of custom applications for private and public agencies utilizing the Esri technology stack. Specific projects include:

- **Project Manager, Illinois Department of Transportation, Springfield, IL.** Works with IDOT staff on several GIS initiatives, including: GIS integration opportunities, Training, HERE/NAVTEQ data sharing, Over-dimension Over-weight permitting data processing, Roadway Inventory, Structure Inventory. Additional IDOT Projects include:
  - Illinois Highway Information System – Project Manager, in 2010 worked with IDOT staff and team to migrate their roadway inventory system from the mainframe to windows architecture. Since that time has managed several releases to include system enhancements. Currently working on release 5 with the major component being inclusive of a dual-carriage way route system.
  - Illinois Structure Information System – Project Manager, worked with IDOT staff and team to migrate their structure inventory system from the mainframe to windows architecture. The structure inventory is directly linked to the roadway inventory system and is used to maintain bridge and structure characteristics. All inspection is also stored in the system.
  - Program Planning System – Project Manager, current in flight project to re-architect the existing Program Planning System. This system is primarily used to facilitate the development and management of the 5-Year Highway Program and the Annual Highway Program.

EDUCATION

B.A., Biology, Southern Illinois University, 1989

Master of Science, Business Administration, University of Illinois-Springfield, 1992

CERTIFICATIONS

PMP, Project Management Institute

TECHNICAL EXPERTISE

Esri: ArcGIS Online, ArcGIS Desktop, ArcGIS Server, ArcSDE

Other: MS Visio, MS Project, Visual Studio, VS Team Foundation Server
FMIS 5.0 Electronic Submittal – Project Manager, current in flight project to build a system to interface with FHWA’s FMIS modernization effort. This project includes integration with IDOT’s Program Planning System and Motor Fuel Tax system (MFT). Submitting project extent as a GIS feature is required depending on project characteristics.

Esri ArcGIS Online – Project Manager, continue to work with IDOT staff on governance and implementation of IDOT’s ArcGIS Online for Organizations account. This includes group and user management, featured maps gallery, and overall content.

ADA Pedestrian Facilities – Project Manager, State DOTs are required to be compliant with Americans with Disabilities Act (ADA) guidelines. In order to be in compliance with the ADA requirements, agencies must develop a transition plan. The first step in the transition plan is to inventory all the existing services along state routes. All IDOT Districts have been tasked with providing this information to the Central Office beginning June, 2014. Due to the size of District 1 and the vast amounts of data to be collected, our team is building a mobile data collection system using Esri’s Collector application and ArcGIS Online.

Crash Information System GIS Migration – Project Manager, the GIS team provides location services to the Crash Information System (GIS) locator tool. Requests are made for map and/or geoprocessing tasks. Traffic Safety requires that each crash be located against a defined and consistent set of data. GIS locating and mapping services developed prior to 2011 are using ArcIMS as the service architecture. GIS services from 2011 forward are using ArcGIS Server. The ArcIMS services must be migrated to ArcGIS Server as the ArcIMS product will no longer be supported.

Utility Incident Reporting – Project Manager, at times construction work in right-of-way results in impact on other entities infrastructure (phone lines, sewer lines, water lines, etc.). The Utility Incident Reporting application was built to allow external customers to report the location and type of infrastructure impacted. The application is responsive, designed to adjust the user experience based on type of device accessing the interface.

Preferred Truck Routes Management – Project Manager, worked with IDOT staff to build a web application for local units of government to identify and submit Class II and III truck routes and preferred routes. These entities previously would fill-out a paper form to designate Class II and III truck routes. The form was submitted to the department and eventually entered and stored in the roadway inventory system. This system replaced the paper form and allowed for routes designation via a web form and map interface.

Statewide Custom Geocoder – Project Manager, worked with IDOT staff to build a Statewide Custom Geocoder for use by member state agencies. Standard geocoding is process of interpolating spatial locations (X,Y coordinates) from street addresses or any other spatially referenced data such as ZIP Codes, parcel lots and address locations. This custom geocoder will extend traditional geolocation by providing an optimized workflow to match at the highest precision available for an address.

Illinois Recovery.gov Interactive Map – Worked with IDOT staff to create an interactive mapping application for the Governor’s State of Illinois – Illinois Recovery web site using the Esri Adobe Flex API and Microsoft Bing Maps. The site is based on an Esri template. However, several application changes were implemented to adjust the user interface process data, display data, and standardize data connections.
• I-ROADS – Project Manager, worked with IDOT staff to develop and implement two versions of the Illinois Roadway Analysis Data System. The initial version of the application was a mapping application using a customized ArcGIS Server web template. The next generation is a Silverlight application that takes advantage of Microsoft Bing Maps. This application displays via a web interface the condition of the road, the rate of deterioration, the roughness index and other roadway information. Historically, this data was available electronically, but a hardcopy map was the official product. I-ROADS creates a digital representation of four former hardcopy map series: CRS, IRI, RUT, and NA.

• Bridge Information Web Access – Project Manager, worked with IDOT staff to develop and deploy a mash-up using Bing maps to depict the location and other detailed information on bridges. The public can query bridge information using both attribute and location based tools, view inspection reports, and bridge construction characteristics.

• GettingAroundIllinois.com Version 2 – Project Manager, working with IDOT staff and management to rewrite of the GettingAroundIllinois.com application with the goal of modernizing the interface and enhancing the user experience. The new application will include a data download library and a traveler services section. IDOT business data will be separated from traveler information to reduce cluttering and confused.

• Construction Dashboard – Project Manager, worked with IDOT staff to implement a construction dashboard mash-up using Google maps to depict the location and status of projects. This site is integrated with construction dashboard query component.

• St. Louis Metro Traffic – Project Manager, worked with IDOT staff to develop the Metro-East St. Louis Travel Information site which provides traffic and roadway information to the traveling public via a Google maps mash-up. Included on the interactive mapping site are current traffic flow indicators, current speed of travel, incidents, road work, real-time traffic camera feeds, and dynamic message board postings. This information is updated automatically from District 8 data sources and refreshed every 90 seconds.
PROFESSIONAL EXPERIENCE

Mr. deCastro is an experienced GIS Applications Developer for GIS Solutions, Inc., responsible for the development of custom applications for private and public agencies utilizing ESRI software (ArcSDE and ArcGIS Server) with object-oriented development environments and Internet technologies such as ASP.NET, Visual Studio, Silverlight, and ArcGIS Online.

July 1996 to Present – Developer, GIS Solutions, Inc.

Responsible for designing, building and deploying custom applications for private and public agencies utilizing ESRI software. Specific projects include:

Illinois Department of Transportation
Provided on-site GIS support to the IDOT technical staff by developing applications for analytical tools, data transformation or to automate and simplify the work environment. Applications were internet and desktop based solutions.

- Continuously working with Traffic Safety to assist with Locator Tool issues. Responsible for maintaining the mapping services used by the Locator Tool. The Locator Tool returns IDOT information and is stored with each crash information that is located.

- Converted the Data Verification ArcMap add-in from ArcGIS 9.3.1 to ArcGIS 10.2.1. The add-in was originally written as a VB control which is no longer supported by the updated version of ArcMap. The add-in is used to view and edit IDOT-related data necessary to aid users with their daily tasks.

- Developed data to collect ADA features for District 1. The ADA features included crosswalk, audible pedestrian signals, curb ramp, and sidewalks. The information was collected by a number of District 1 consultants using Esri’s Collector app with an iPad. The status map was made available using a web map on ArcGIS Online. The application enabled the collection of over 100,000 records that included pictures of essential assets.

- Developed and automated updates to District 6 Studies and Plans Check Sheet. Project Engineers often have to wait about 6 months to receive updates or changes to their projects. The automation procedure uses a combination of FME and Python scripts to update data on SDE. The procedure allows updates to become available the following day. Project locations are accessible to Project Engineers through ArcGIS Online maps.

- Worked with Esri to create a 511 Traffic Information System site on ArcGIS Online. The site consists of dynamic message signs, road construction, closed roads, traffic cameras, traffic feed, and weather radar. The site is to deliver information to drivers that could impact their journey. Python scripts are used to update the information every 10 minutes.

EDUCATION

Bachelor of Science, Geology, Illinois State University, 1994

Master of Science, Geohydrology, Illinois State University, 2001

CERTIFICATIONS

Geographic Information Systems
Professional (GISP), 2001

TECHNICAL EXPERTISE

Esri: ArcGIS Desktop, ArcGIS Extensions, ArcGIS Server, ArcGIS Online

Programming Languages & Environments:
Python, Visual Basic, HTML, JavaScript, CSS, SQL, C#, ASPX, ASP.NET, XML, DHTML, and VBA

Databases: SQL Server, MS Access

Other: MS Office, Adobe Photoshop, MS Project

TRAINING

Mastering AJAX for ASP.NET
Developing Applications with ArcGIS Server Using Microsoft .NET
ArcSDE Administration for SQL Server
Programming with Visual Basic .NET
Administering ArcSDE with SQL Server
ASP.NET Using Visual basic 2005
REY DE CASTRO
Developer
GIS Solutions, Inc.

- Assisted Mapping and Graphics Group to create an employee services ArcGIS Online site. The site displays locations for drug testing. The site also helps locate hotels that offer discounts to State employees.

- Converted District 8 Travel Information site to consuming an ArcGIS Online web map. The web map uses map services from IDOT ArcGIS Server, traffic feed from HERE, and web camera images. The camera images are updated every 10 minutes using FME.

- Developed a website application that will enable IDOT employees to enter road construction and restriction information. The system will replace an existing desktop application and automate reports used for identifying permit restrictions.

- Assisted with the development of several Silverlight projects. These projects are: Locational Analysis, IRoads, and Van Pico Viewer. The Locational Analysis will allow the public to query and view crash information. The IRoads allow internal users to view programming and planning related data. The Van Pico Viewer application allows users to view images taken during road assessments.

- Assisted with developing the site that displays Illinois ARRA Project data.

- Developed websites that allowed the public to query and view projects for the Illinois Construction Dashboard and Bridge Information. The Illinois Construction Dashboard utilizes the Google API while the Bridge Information website uses the Bing Maps API.

- Assisted with developing a website for the Safe Routes to School Program. The website allows users to create features related to the program. The application was developed using ArcGIS Server, ArcObjects, and Visual Basic .NET.

- Developed a website using ArcIMS and SQL Server to display fatal crash summary for the Division of Traffic Safety. The map displays fatal counts by county, year, and other information regarding fatal crashes.

- Assisted with developing a web service that is used by crash locators at the Division of Traffic Safety. The web service relays spatial information back to the desktop application based on intersections, addresses, or a coordinate. An XML document is passed to the web service with the appropriate location information and all spatial data is passed back to the client based on the location. The application was written using ArcIMS, ArcGIS Server, Visual Basic .NET and XML.

- Assisted with developing a mobile crash reporting system used by law enforcement agencies. The application allows police officers to enter crash information onsite. Development was done using VB6 and MapObjects.

- Developed an interactive website that consolidated sites such as winter road conditions, average annual daily traffic, designated truck routes, and other sites. The site allowed the ability to display multiple IDOT GIS data sources into a single location. The website includes the ability to search by address and generate driving directions from address to address or from listed sources. The site was developed using ArcIMS, ASP.NET, ArcSDE, SQL Server, XML, and JavaScript.

- Developed an Internet mapping template for the District 8 Report Project. The standard mapping navigation such as identify, pan, zoom in, and zoom out are a part of the template. Additional features are map tips and ability to turn layers on/off. The site will allow the GIS team to create mapping websites using the template after changing the configuration file. Developed an additional feature within the Access database used by District 8 to locate incidents. The new feature will allow them to locate a feature based on their existing data from SQL Server. After selecting the desired information the coordinates is passed to an ArcIMS site displayed within the Access form and zooms within the vicinity of the feature. A tool made available to the site retrieves the coordinates from the map and passes the coordinates to the Access form to fill in the appropriate area within the form.

- Assisted with the development of a mapping site that will be accessible by a mobile device such as a Pocket PC. The application is a part of the District 8 Report Project. The site will allow users to identify and report incidents from the field.
MIKE MAROON
Senior Developer
GIS Solutions, Inc.

Professional Experience

Mr. Maroon has over 20 years system/application design and development experience to include desktop, internet, and enterprise systems and applications. Mr. Maroon has specific expertise with HERE (NAVTEQ) data and integration projects. Mr. Maroon has developed multiple software tools and utilities which identify changes in the HERE NAVSTREETS database and integrates those modifications into an existing HERE NAVSTREETS dataset. These tools provide the ability to integrate NAVTEQ database updates into custom datasets with minimal effort and no database downtime. The database integration tools were built using a combination of Esri ArcObjects code and Esri ArcSDE C API code. Mr. Maroon has experience developing applications in numerous programming languages and web technologies including: C/C++, C#, Java, ASP.NET, VB.NET, JavaScript, Python, Objective C and SQL.

May 1994 to Present – Senior Developer, GIS Solutions, Inc.

Responsible for the development of custom applications for private and public agencies utilizing Esri software with object-oriented development environments such as VB.NET, C#, C++, DBMS and internet technologies. Specific projects include:

- **Duke Energy** (Subcontract to Patrick Engineering). Senior Developer. Esri ArcGIS Runtime for .NET Universal Windows Framework Application development to provide a tablet-based application to utility field crews allowing access to business information and GIS data, plus data collection. This project is developed using C# and Esri ArcGIS Runtime.

- **United States Forest Service**. Senior Developer. System design and integration of ArcGIS Online, Esri Portal, Esri Collector prototype providing data access and remote data collection (on-line and off-line).

- **Illinois Department of Public Health**. **Project Manager**. System design and system implementation of ArcGIS Server to provide enterprise-wide GIS services and analysis. Development of Common Operating Picture (COP) application with ArcGIS Server and Esri JavaScript API to provide situational awareness during a state health crisis.

- **Illinois Department of Transportation**, Springfield, IL. Senior Developer. Development of ArcGIS Server XML Web Service to update spatial component of an enterprise data warehouse linking road inventory information and road projects to NAVTEQ database. Development of Esri Network Dataset to provide routing of Commercial Truck vehicles. Developed web application with ArcGIS Server JavaScript API application to create, edit, access designated truck routes stored in SQL Server (spatial).

EDUCATION

B.S., Applied Geography, Illinois State University, 1994

TECHNICAL TRAINING

- Introduction to ArcSDE
- ArcSDE Administration for Oracle
- Accessing SDE with C
- Introduction to Oracle
- SQL Server System Administration
- Customizing ArcGIS Server with Microsoft .NET & AJAX
- Web Development using AJAX
- NAVTEQ/Map 24 MapTIP Server Training
- iPhone and iPad Application Development

TECHNICAL EXPERTISE

- **Esri**: ArcGIS Desktop, ArcGIS Server, ArcSDE, ArcGIS Extensions, ArcGIS Online

- **Programming Languages & Environments**: SQL, JavaScript, Java, Visual Basic, VBA, Dojo, VB Script, VB.NET, C#, C/C++, ASP.NET, XML/XSLT, Python, Microsoft Visual Studio, Microsoft Team Foundation Server, Apple XCode

- **Databases**: MS SQL Server (2000, 2005, 2008, 2012, 2014), Oracle 8/9i/10g/11g, IBM DB2, MS Access


- **Other**: Microsoft Office
MIKE MAROON
Senior Developer
GIS Solutions, Inc.

- State Farm Insurance. Project Manager. System design and system implementation of a custom nation-wide NAVTEQ dataset in ArcSDE which is updated quarterly.

- U.S. Government Agency. Project Manager. Custom NAVTEQ world-wide data product to integrate in to business systems using ArcSDE.


- AT&T, St. Louis, MO. Project Manager / Senior Developer Development of custom world-wide NAVTEQ NAVSTREETS dataset in Oracle RDBMS.


- @Roads, San Jose, CA. Project Manager / Senior Developer. Development of a custom world-wide NAVTEQ dataset in AutoDesk MapGuide Format.


- Illinois Department of Agriculture, Springfield, IL. GIS Project Manager. Project Manager for an enterprise-wide GIS implementation for a statewide Geodatabase. This implementation includes the design and building of an ArcSDE database, GIS user needs assessment, GIS enterprise strategic plan, and foreign animal disease outbreak predictive modeling utility.

- Evans Properties Enterprise GIS, Vero Beach, FL. GIS Project Manager. Project Manager for an enterprise-wide GIS implementation for a 25,000 acre citrus operation in South Florida. This implementation includes the design and building of an ArcSDE database, multiple ArcIMS applications and the distribution and synchronization of GIS data and tools to users in remote citrus groves.

- Tampa Bay Water, Clearwater, FL. GIS Project Manager / Senior Developer. System design and development of GIS enables water demand management system. This application will provide a query and analysis interface for available to GIS personnel via ArcGIS. Application development is being built using ArcObjects and Visual Basic for Applications (VBA) in an ArcGIS ArcMap extension.

- Illinois Power / Dynegy, Inc., Decatur, IL. GIS Project Manager / Senior Developer. System design and development of an intranet GIS application for Illinois Power. This application provides a query interface available to customer support personnel. This system provides a mapping application built using Visual Basic, ActiveX Data Objects (ADO)/Open Database Connectivity (ODBC), and ArcIMS to display and query real-time power outages. Information is queried from the Illinois Power IBM mainframe DB2 database and displayed geographically using this mapping application.
TRAVIS GORRIE, GISP
Developer
GIS Solutions, Inc.

PROFESSIONAL EXPERIENCE

Mr. Gorrie is experienced in the Esri desktop software suite and specializes in creating custom tools and applications based off Esri software in a variety of languages and formats. Mr. Gorrie has developed GIS applications for the Illinois Department of Transportation, the Illinois Emergency Management Agency, and Cook County Highway.

2000 to Present – Developer, GIS Solutions, Inc.

Responsible for designing, building and deploying custom applications for private and public agencies utilizing Esri software. Specific projects include:

- Illinois Department of Transportation
  Provided on site GIS support to the IDOT technical staff by developing applications for analytical tools, data transformation or to automate and simplify the work environment. Applications were internet and desktop based solutions.
  
- Produced the routing site for the Illinois Transportation Automated Permits (ITAP) application. The C# application uses ESRI network analyst software to find a viable truck route for oversize/weight truck permits. Routing utilizes bridge analysis software to conduct on the fly structure analysis. The web site was developed using Silverlight, ArcGIS Server and .NET technologies on a Bing base map.
  
- Developed the Illinois Roads Analysis Development System (IRoads) as an analytical tool and data viewer for the program planning department. IRoads provides customized tools for identifying, reporting, displaying and locating planning data with other data sources. The web site was developed using Silverlight, ArcGIS Server, ArcObjects, and .NET technologies on a Bing base map.
  
- Developed the Van Pics intranet application which is used to display program planning’s van pic images in multiple perspectives and is utilized by many other applications. The Silverlight web site provides a locator map that presents the van image’s geographic location on a Bing base map, and queries IDOT’s road inventory database to obtain relevant road condition data via ArcServer.
  
- Created ESRI Add-Ins for the Transportation Review for Ecological Compliance (TREC) application. ESRI Add-In tools include generate standard and resource reports, create and edit vicinity of project data and zoom in tools.
  
- Crafted multiple tools in the ArcMap desktop environment for creating and maintaining the obstruction and restriction data for the Permits department. Tool functions include zooming, identifying and routing and were developed in VBA using ArcObjects.
  
- Wrote python scripts for Illinois Transportation Automated Permits (ITAP) application’s nightly process that checks for bridge updates, clears cached files, creates PDF reports and updates street network datasets.

EDUCATION

B.A., Geography, University of Manitoba, 1995

Geological Technician, Sir Sanford Fleming College, 1996

Geological Engineering Technologist, Sir Sanford Fleming College, 1997

Geographic Information Systems, Applications Specialist, Sir Sanford Fleming College, 1999

CERTIFICATIONS

Geographic Information Systems Professional (GISP)

TECHNICAL EXPERTISE

ArcGIS Desktop, ArcGIS Extensions, ArcGIS Server, ArcGIS Online

Programming Languages & Environments:
Python, Visual Basic, HTML, JavaScript, CSS, SQL, C#, ASPX

Databases: SQL Server, MS Access

Other: MS Office, MicroStation, Adobe Photoshop, MS Project

TRAINING

Mastering AJAX for ASP.NET
Developing Applications with ArcGIS Server Using Microsoft .NET
ArcSDE Administration for SQL Server
Programming with Visual Basic .NET
Illinois Emergency Management Agency

- Worked as a team member to develop an X-Ray inspection application for the Illinois Emergency Management Agency. The application was developed using VB.NET, SQL Server and .NET Web services. The application converted a hardcopy review process to an electronic version using a Tablet PC and digital signature capture. The .NET application incorporated an extensive quality control interface for improved validation and error control.

Cook County Highway

- Developed a .NET application for the Cook County Highway Maintenance Department. Application manages and monitors employees and equipment for snow removal, and then provides time and cost diagnostic information in digital and hardcopy formats. The application incorporates embedded ESRI map technology that accesses and edits data from an ArcSDE server. The application was developed with the Visual Basic programming language in the Windows .NET development environment.

Office of the State Fire Marshal

- Member of the development team for the creation of an interactive facility management application for the Illinois State Fire Marshal. The field application was developed in the Visual Basic programming environment and incorporates MapObjects technology to display the underground storage tanks. Responsible for creating the calendar control and navigation tools for the application, also developed the on-site signature capture methods for the signature tablet. Developed the GPS data capture procedures within the application that extract and employ collected GPS point data.
PROFESSIONAL SUMMARY

IT Professional with over 20 years in technical consulting, software design and implementation. A strong professional with a solid technical background along with solid people (and mentoring) skills.

- Expertise in design and development using all Microsoft technologies.
- Highly skilled in the complete lifecycle development of database-driven applications.
- Currently focused with SharePoint, Business Intelligence and custom web application design and development.
- Highly qualified to provide both high-level and detailed technical direction to organizations.
- Ability to understand key business data and data requirements.
- Extensive experience in providing knowledge transfer and training on technology to organizations.
- Extremely skilled in working directly and interacting with upper management, stake holders, end-users and technical staff.

TECHNICAL SKILLS SUMMARY

Experience


Industry Experience

Government, Law Enforcement, Insurance, Manufacturing & Distribution, Finance, Healthcare, Utilities, Telecommunications, Marketing & Sales, Transportation

Languages

ADO, ADO.NET, JSPs, ASP, Lotus Script, ASP.NET, PL/SQL, C# .NET, SQL, CFML, SQL*Plus, CGI (Perl), UML, CSS, DHTML, VBS, EJBs, VB.NET, HTML, Visual C++, Java, XML, JavaScript, JQuery, XSD

Software

Microsoft SharePoint Portal Server 2003, MOSS 2007 / 2010, SharePoint 2013, Nintex Workflows 2010 / 2013, Nintex Forms 2013, Metalogix Content Manager, Microsoft Operations Manager, Business Intelligence Scorecard Accelerator, Cognos Reporting, Microsoft Transaction Server (MTS), Cold Fusion, MS SharePoint Services, Crystal Reports, DB2, Oracle 7.x / 8i / 9i /
DAVE CHELEY RESUME

Software


Operating Systems


Hardware

IBM PCs and Compatibles, PDA’s, iPhone, IBM Servers and Compatibles

PROFESSIONAL EXPERIENCE

Raptor Software, Inc., Bloomington, IL (9/2008 – Present)
Director of Application Development

Client: Illinois Department of Transportation (IDOT), Springfield, IL
Providing direction for IDOT’s technical architecture. Architecting, implementing and upgrading Microsoft Office SharePoint Server 2007, 2010 and 2013 in a 4000+ end user environment. Administration of IDOT’s intranet and portals. Integrating non-SharePoint applications into SharePoint. Created custom workflows and event handling in SharePoint. Architected and developed a legal case tracking and labor relations tracking system in SharePoint 2007, 2010. Provide technical expertise and mentoring to staff in SharePoint 2007, 2010 and web application design and development. Design and development of SSRS reports for multiple tracking systems. Design and development of the multiple tracking systems using SharePoint, SQL, custom web code and complex custom workflows. Provide support for the Safe Routes to School application which includes report generation, bug fixes, mapping integration and general public end user technical support. Developed the Executive ARRA dashboard and created charts and web interface in SharePoint 2007. Provide technical expertise and mentoring on the paperless contract scanning initiatives. Developed and enhanced the custom SharePoint search web part and developed a standard for reusing the business logic and solution code. Worked and interacted directly with stakeholders in most development initiatives and business units. Analyzed and evaluated the SharePoint 2007 ARRA data import application written by DCEO to determine the viability of IDOT technical staff take over.

Client: Illinois State Police, Springfield, IL
Provided end-user and administrator training on SharePoint (MOSS) 2007.

Senior Technical Partner

Client: Illinois Department of Transportation (IDOT), Springfield, IL
Provided technical expertise on the migration of the intranet SharePoint portal. Integrated a GIS mapping tool to be used by the general public with an ASP.net website. Developed multiple applications inside of SharePoint. Architected and developed many stand-alone applications. Provided extensive knowledge transfer and training for staff. Safe Routes. Stimulus Dashboard, ARRA, SharePoint 2007 upgrade, implemented and developed SharePoint development environment and testing lab. Case tracking system. Provided support and strong problem solving skills to assist
DAVE CHELEY RESUME

in many different technical initiatives. Developed and implemented an internal xxx training application.

Client: Christian Homes, Lincoln, IL
Architected and implemented an intranet portal using SharePoint 2007. Designed site templates and customized the portal to fit the client's requirements. Diagnosed and solved issues with server configurations.

Client: LearnITStuff.com
Architected and Developed an E-Commerce site used to provide task-based online technical training. Developed the fully functional e-commerce site using ASP.NET and SQL Server.

Client: The HON Company, Muscatine, IA
Reviewed the existing SharePoint 2007 installation and provided a portal health-check of the existing environment. Provided technical summary of environment along with suggestions to improve performance and stability of a large corporate portal. Provided knowledge transfer and training on the portal.

Client: Detroit Diesel, Detroit, MI
Implemented and created a training collaborative portal in SharePoint 2007. Integrated a video viewer for production training using SharePoint.

Principal Consultant
Performed a variety of application design and development activities as an information technology consultant for various company clients

Client: Illinois Department of Transportation (IDOT), Springfield, IL (08/2006 to 08/2007)
Architected and developed the Illinois Safe Routes to School application using ASP.net, C# and VB.net. This application is a Federally-funded application that will be used by thousands of public users. Performed database design and administration for the application. Architecting and implementing a MOSS 2007 implementation for IDOT and the entire state of Illinois.

Client: Accuride Corporation, Evansville, IN (03/2006 – 08/2005)
Developed an engineering portal that integrates SharePoint into a complex engineering process and environment. Integrated SharePoint with Ungirographics and AutoCad drawing systems, created workflows and developed templates for engineering projects within the company.

Client: Tate and Lyle, Decatur, IL (11/2005 – 03/2006)
Performed a detailed performance analysis and auditing of a large production SharePoint Portal. Installed and configured the SQL Report pack for SharePoint to gather and analyze portal data. Created a script to be run with Microsoft Operations Manager (MOM) to gather performance data from multiple worldwide clients. Re-wrote three heavy-use web parts to enhance performance and reduce page load times. Documented performance data and metrics and formulated suggestions to improve the overall end-user experience for a worldwide corporate portal.

Designed, created, and implemented a production Business Intelligence (BI) environment to gather company performance data and report it in BI Scorecards within a SharePoint Portal. Created OLAP cubes and linked to the data warehouse to be used by the scorecards. Designed and coded multiple Business Intelligence Scorecards using MDX statements to be used to gather Key Performance Indicator data (KPIs). Created and enhanced custom web parts, debugged code, and solved web part business logic issues.
DAVE CHELEY RESUME

Met with executives from business development and marketing to identify a portal model. Mapped
the business processes into a viable SharePoint solution leveraging out-of-box capabilities. Captured
specifications and set priorities for developing the initial proof-of-concept. Implemented the design
and specifications of the portal and documented the process.

Trained staff in the use and customization of SharePoint. Debugged and solved technical issues with
CSS stylesheet customizations.

Client: Phelps County Régional Medical Center, Rolla, MO (07/2005 – 07/2005)
Performed analysis and troubleshooting of a production SharePoint Portal. Moved SharePoint
production databases to a new database server.

Implemented the Microsoft Proposal Accelerator within SharePoint. Customized the accelerator
using C# to allow it be used by Security Benefits. Installed and configured SharePoint Portal
development and test environments.

Architected and implemented a corporate SharePoint Portal Server in both development and
production environments. Worked with the Gold Bank staff to gather business and technical
requirements for the portal implementation. Educated the developers on the technical details of
SharePoint Portal Server. Provided support and training to allow the developers to extend and
integrate information and applications. Converted expense tracking forms to InfoPath and integrated
the forms into SharePoint. Performed a portal migration from development to production.

Client: Saberliner (MidCoast Aviation), St. Louis, MO (05/2005 – 06/2005)
Assisted LRS portal team members with design and technical issues with the Saberliner portal
implementation. The Saberliner portal was designed using Microsoft SharePoint Portal Server 2003,
Windows SharePoint Services 2.0, and Office 2003. Assisted with requirements and design for the
initial engagement.

Client: Reyes Holdings, LLC, Rosemont/Chicago, IL (04/2005 – 05/2005)
Architected and developed a complete corporate portal using SharePoint Portal Server 2003.
Integrated business-to-business applications into the portal to enhance communications. Educated
and mentored staff architects and developers in the SharePoint "best practices". Installed and
configured business intelligence scorecards to display important corporate data within SharePoint.

Assisted the development staff with implementing a scalable SharePoint Portal Server 2003 design
while allowing for ease of maintenance. Educated the developers on the technical details of
SharePoint Portal Server. Reviewed the existing system and provided feedback on areas that are
problematic. Provided support and training to allow the developers to extend and integrate
information and applications. Assisted staff in by providing proof of concepts and demo code
developers used to create Web Parts and applications.

Designed, coded and implemented .NET Web Services using C# to automate the processing of
encoded data transmissions. Mentored staff in the creation and use of .NET Web Services.
Designed SQL server databases to store in-process data.

DAVE CHELEY RESUME

Reviewed, mentored, and advised technical staff on the implementation and deployment of SharePoint in production. Tested and enhanced the SharePoint production portal. Implemented and customized security, alerts, and document libraries. Created an InfoPath/SharePoint Shift Log Application to be used by 14 hospitals and support groups. Trained all technical staff (80) in the use of the newly-implemented SharePoint portal.

Client: Accuride Corporation, Evansville, IN (01/2005 – 02/2005) Designed, coded, and implemented a custom Project Management / Project Tracking Application as multiple SharePoint Web Parts. Integrated SharePoint data into a 3rd party project management application. Designed and configured a clustered, redundant web farm in a production environment to maximize SharePoint failover and up-time. Performed code reviews and enhancements of existing custom SharePoint Web Parts.

Client: Nooter/Eriksen, Fenton, MO (12/2004 – 02/2005) Created a custom InfoPath form which enables the Quality Control department to easily track process improvements. Integrated the InfoPath form into SharePoint document libraries and created a custom workflow process to automate the Quality Improvement Process (QIP).


- Architected, designed and developed a conversion methodology from a Microsoft-based architecture (ASP, VB-COM, C++) to a Java-based architecture (J2EE-WebSphere, JSPs, Struts) for an entire enterprise.
- Designed, developed and maintained VB and C# components for business entities within a large company including, banking, client-based and insurance applications.
- Functioned as the Subject Matter Expert in the design, planning and implementation of multiple .NET conversion projects. Guided and mentored team members within the projects and assisted in the development initiatives as a developer.
- Designed and developed an automated build process for future .NET applications. Developed an automated build tool prototype for .NET applications.
- Designed and developed .NET applications to interact with Microsoft SharePoint Portal and BizTalk Application Server.
- Assisted in design enhancements for the existing VB 6.0 automated build tool, code review tool and version controls with Dimensions.

Telution, Inc., Chicago, IL (01/2003 – 06/2003) Senior Consultant
- Provided consulting services for this telecom support (OSS) and billing application Software Company.
- Created and coded an XML generator using Visual C++ and VB to standardize and encapsulate web-based business rules used by multiple companies.
- Enhanced a General Ledger (GL Financial) application using Visual C++ and VB to allow error-free reporting and calculating of state taxes for all US states.
- Developed a Visual Basic (VS 6.0), COM component to be used by communications or entertainment companies for tracking past services, based on an intricate address verification algorithm.
DAVE CHELEY RESUME

- Developed a VB, COM component and DTS package designed to import and process a complex pay-per-view (cable TV) data file into a billing management application.

Allscripts Healthcare Solutions, Libertyville, IL (02/2002 – 01/2003)
Senior Software Engineer
- Provided consulting services for this healthcare and pharmaceutical software company.
- Architected, designed and developed an OO-based, secure transactional data transmission and messaging system using Visual C++, .NET, XML, JavaScript, metadata and SQL Server 2000 to facilitate the communication of prescription information between prescribers (doctors) and providers (pharmacies).
- Reworked and modified COM objects that were written in Visual Basic (VB) to function under new database structures.
- Created or modified database schema so that patient, medication, prescription and billing information can be managed in the most efficient way.
- Designed, coded, implemented and tested over 200 stored procedures in SQL Server 2000 for a prescription management software application.
- Overhauled the Authenticate and Validate COM objects (written in VB) for original applications to work with new database schema and stored procedures.
- Developed interactive interface using Visual C++, C#, .NET, JavaScript, HTML, and XML to assist in the management of doctors’ tasks and assignments.
- Converted existing C and C++ based calls to XML Web Services using Visual C++, metadata and .NET.
- Developed Windows CE based applications using C++ and .NET to be used by physicians and pharmacies with wireless PDA’s (personal digital assistant).

Kemper Insurance Companies, Long Grove, IL (02/2001 – 02/2002)
Senior Object Oriented J2EE Developer and Architect
- Provided consulting services for this insurance and financial company.
- Developed a 4-tier J2EE-based B2B Application, using the Rational Unified Process (RUP), Versata, IBM WebSphere, custom EJBs, client/server side Java, and XML.
- Integrated ActiveX COM objects written in VB with WebSphere data connections in Java to allow MS Office to transfer data with application.
- Developed a custom middleware connector consisting of low-level APIs (DCOM and custom) that allowed distributed components to transparently communicate via multiple architectures or a wide range of communication channels, network protocols, and security mechanisms.
- Created web-based reports from DB2 and Oracle using Crystal Reports and Cognos Impromptu / Powerplay.
- Part of a 5-member technical development team who worked together with the client to deliver on time and within budget, a quality WebSphere - Versata based, J2EE application. Personally responsible for development and architecture using IBM Visual Age 3.5 for Java, RUP, WebSphere, Versata, DB2, EJBs, Java, JavaScript and XML.
- Designed, documented and implemented an overall security architecture that links the existing Insurance Application Architecture (IAA) security model to the Versata model.
- Developed both a logical and physical data model of a financial application that consists of 1 30 tables in DB2. Used UML modeling techniques and designed table-structures in the most normalized way to ensure reusability under the Insurance Application Architecture (IAA).
- Worked on a project to determine the best methodology and architecture for converting existing J2EE applications to the Microsoft .NET architecture.
- Created a thorough 500-page design and implementation guidelines architecture white paper for using Versata and J2EE application development under IBM’s Insurance Application Architecture (IM) standardized model.
DAVE CHELEY RESUME

- Worked with Data Standards team on Data model to maximize benefits of server-side aggregates to ease task of report creation using Cognos and Crystal Reports. Constantly re-worked the Data Model and DB2 database design to maximize the power of the server-side business rules.

NNNG, Chicago, IL (05/1998 – 02/2001)
Senior e-Commerce and Network Consultant
- Designed and developed multithreaded DCOM business objects in C++ that performed the business logic and database storage, auditing, and maintenance.
- Developed server-side objects using Visual C++ and Visual Age 3.5 for Java.
- Designed, developed and maintained multiple commercial web-enabled benefit enrollment applications in a team environment.
- Developed, coded and implemented an automated file import interface to interact with external databases using XML, Visual Basic, MTS, Active X and COM/DCOM components.
- Performed database design, development and administration in Oracle 8i, Oracle 7.3, MS SQL Server 6.5/7.0 and Lotus Domino.
- Analysis, design and development of Enterprise Java Beans (EJB5) for use in the web enabled applications.

Staff Programmer / Analyst - New Systems Development
- Designed and developed messaging COM server to communicate between mainframe and Windows NT using IBM MQ series, Visual C++, and ATL.
- Developed an application using C that imported CICS mainframe data into an Oracle database.
- Involved in all phases of the development life cycle of an Oracle implementation and migration project.
- Improved access to critical financial data by developing new customized Oracle Reports and Forms.
- Designed and implemented custom non-Oracle graphical reports, forms and reporting tools, which allow unique user selection of specific financial data from an Oracle database.
- Validated, designed and built Oracle triggers and alerts to interface with non-Oracle applications.

Xtrium Laboratories, Inc., Chicago, IL (02/1993 – 01/1998)
Director of Operations
- Implemented and managed improvement projects to turn around a small, struggling pharmaceutical manufacturing facility.
- Planned and organized projects; interviewed, trained, oriented new employees; evaluated, motivated and disciplined personnel; effectively managed 80+ employees.
- Improved working communication among all Executives, Directors and Managers by directing and leading all management meetings.
- Increased product profitability by negotiating contracts for pricing increases with customers, and inventory/cost reduction with suppliers.

EDUCATION
- DePaul University, Chicago, IL
  Master of Science, Computer Science
- Cambrian College, Sudbury, Ontario, Canada
  Bachelor of Science, Chemical Engineering
PROFESSIONAL EXPERIENCE

Ms. Stanford has over 12 years of experience as a GIS Applications Developer. Ms. Stanford has been providing on-site and offsite GIS support to the USFS assisting the agency in bringing their datasets up to national standards and maintaining their transportation, heritage and forest activity GIS data. Ms. Stanford is Esri certified and has been developing and deploying web-based GIS applications for over 10 years utilizing the latest in Esri technology.

2002 to Present – Senior Developer, GIS Solutions, Inc.

As a Senior Developer for GIS Solutions, Inc., responsible for the development of custom applications for private and public agencies utilizing ESRI software together with a range of database technologies and programming languages. Specific projects include:

- **Kane County – Department of Transportation, St. Charles, IL.** Developed a custom, internal viewer to support permitting operations. The viewer utilizes the Esri JavaScript API, the AMD API and the Dojo toolkit.

- **Honolulu Board of Water Supply, Honolulu Hi.** Assisted in the development and maintenance of internal GIS viewers. Viewers were developed using the ArcGIS Viewer for Flex Application Builder and contained custom Flex widgets.

- **Bikeeverywhere.com** Developed a custom Esri JavaScript API Map object that was integrated into a public facing e-commerce site. Data was served from an ArcGIS Server instance hosted on an Amazon Web Services server.

- **State of Illinois – State Board of Elections, Springfield IL.** Developed a map book of electoral districts using ArcGIS Data Driven Pages and custom Python scripting that will be made available to the general public to communicate district boundaries. Developed a custom Silverlight mapping application that allows the public to search for legislative districts by name, number, address or map click. District boundaries are displayed on an interactive map along with district details. The application uses ArcGIS Server, the ArcGIS for Silverlight API and is written in VB.Net.

- **Illinois Tollway Authority, Downers Grove Il.** Developed a flexible, configurable Silverlight application that is hosted centrally and integrated into various intranet web applications. Data layers and widgets are added to the application and configured via xml.

EDUCATION

B.S., Physical Geography, Trent University, 2002

Geographic Information Systems, Applications Specialist, Sir Sanford Fleming College, 2001

ESRI CERTIFICATIONS

Esri Certified Web Application Developer Associate
Esri Certified ArcGIS Desktop Associate

TECHNICAL EXPERTISE


Programming Languages & Environments:
SQL, Javascript, Active X, HTML, DHTML, ASP.NET, VB.NET, CR.NET, JSP, ArcObjects, AJAX, Adobe Flex, Python, Silverlight, DOJO

Databases: SQL Server, Oracle, MS Access

PC Skills: Visual Studio 2010, Microsoft Expression Blend 4, Adobe Flex Builder 3.0, Microsoft Office Suite, Amazon Web Services

TRAINING

SDE Administration for SQL Server
Flex – Developing Rich Client Apps
Flex – Integrating with Data and Messaging
Flex – Extending and Styling Components
Web Design and Usability
Silverlight Tour Workshop
configuration files and query strings. The widgets leverage ArcGIS Server to host the data and provide geoprocessing functionality. Current widgets include: map navigation, identify and an interface for viewing time based linear referenced layers. The application uses the ArcGIS for Silverlight API and is written in C#.

- **USDA Forest Service - Automated Lands Program, Salt Lake City UT.** Developed python script tools that utilize topology rules and geoprocessing operations to identify gaps and overlaps within Land Status Records System feature classes and vertical integration errors between feature classes. Developed model builder toolboxes to automate the resolution of these errors. Used regional subject matter expert feedback to vertically integrate 12 priority feature classes in all 9 Forest Service regions.

- **USDA Forest Service - White River National Forest, Glenwood Springs CO.** Provided assistance with the production of the nationally mandated Motorized Vehicle Use Map according to agency standards, which includes editing Infra and transportation data so that it is linked, accurate and clean, producing intermediate maps that allow staff to identify areas of incomplete or inaccurate data and delivering final maps that will be printed and made available to the general public.

- **State of Illinois - Department of Transportation, Springfield IL.** Developed an Interactive Spending Map for the internet using Adobe Flex and ArcGIS Server that allows the general public to view where and how Stimulus money is being spent by the state.

- **DuPage County - Transportation GIS Tools, Wheaton IL.** Developed custom ArcGIS Desktop tools, using ArcObjects and VB.NET that will be used to calibrate address point locations and create and maintain transportation event data.

- **Custom Adobe Flex map viewer, Springfield IL.** Developed a custom Flex map viewer template that provides a client for viewing map resources published using a variety of platforms, including ArcGIS Server and NAVTEQ's MapTP. The site utilizes SOAP and XML to communicate with web services that provide base maps as well as geocoding and routing results.

- **USDA Forest Service - Mani-La Sal National Forest, Price UT.** Provided on and offsite GIS support to the Resource Information staff. Assisted the Forest in bringing their datasets up to national standards and maintaining their transportation, heritage and forest activity GIS and tabular data. Produced map products and models on request as required by forest staff to complete their day to day tasks. Provided assistance with the production of the nationally mandated Motorized Vehicle Use Map according to agency standards, which included editing Infra and transportation data so that it is linked, accurate and clean and producing intermediate maps that allow staff to identify areas of incomplete or inaccurate data.

- **University of Illinois Extension - Marketmaker Website, East Moline, IL.** Developed custom ArcIMS web application using ASP.NET that allowed users to query for agricultural producers, processors and retailers and view results on in table form and on a map. Responsible for maintaining and updating a SQL Server database, containing information for over 40,000 businesses and an ArcSDE database containing transportation and demographic data.

- **United States Department of Agriculture Forest Service Engineering - Geospatial Service and Technology Center, Salt Lake City, UT.** Developed custom ArcIMS applications utilizing the Java Connector, HTML, Java Server Pages and Javascript. The application allows users to query and view geographic data both in map and tabular form. This involved the Administering and configuration of ArcIMS, Apache and Tomcat and the design and development of cartographically appealing maps, to be served to the public via the web, using ArcGIS and ArcMap Server. Developed custom PL/SQL scripts to consolidate data from Oracle tables.
PROFESSIONAL EXPERIENCE

Mr. Munsell is experienced in the Esri desktop software suite and specializes in creating custom tools and applications based off Esri software in a variety of languages and formats. Mr. Munsell has developed GIS applications for the New York State Office of Information Technology Services, Illinois Department of Transportation, the Illinois Tollway, and Kane County Department of Transportation.

2013 to Present – Developer, GIS Solutions, Inc.

Responsible for designing, building and deploying custom applications for private and public agencies utilizing Esri software. Specific projects include:

- **Desktop Development, E-911 Street Database Updating, New York State Office of Information Technology Services.** Provided programming support for internal staff maintaining the E-911 Street Database for the New York State OIT Services. Specific tasks include migrating editing tools from Visual Basic Macros to a Python Add-in Toolbar compatible with ArcMap 10.1 and higher in order to allow editors to use more recent versions of ArcMap. In addition, executed a schema change using python and SQL scripting to transform data and quality control tests to the new format.

- **GIS Analyst, Illinois Department of Transportation.** Performed data transformation from the current data schema into the necessary format required for safety analysis software. This included data conversion of tabular data along with analysis and aggregation of their spatial data. Additionally analyzed geometric patterns to extract curves from road line data. Also migrated Visual Basic ArcMap Add-ins to C# for use with ArcMap 10.

- **Application Development, Kane County Department of Transportation.** Developed several internal ArcGIS Online applications that present transportation data. Scripts were developed to regularly update such data. Furthermore, an Operations Dashboard application was created for mobile and desktop to view active vehicle location data for maintenance trucks.

- **Application Development, City of Springfield, Illinois.** Created a web application using asp.net and C# to view parcel and zoning data. The application ties into multiple SQL databases and allows the viewing and uploading of variance documents.

- **Application Development, Tiller Corporation.** Developed a python toolbox script that publishes data from one server to another.

- **Application Development, Illinois Tollway.** Worked to develop an updated Political Jurisdiction Information Viewer. The application was migrated from Adobe Flash to JavaScript with added functionality. The new application is supported on both desktop and mobile environments.

EDUCATION

- Master of Science, Geographic Information Science and Technology, University of Southern California, 2013
- Bachelor of Science, Urban and Regional Planning, Michigan State University, 2008

TECHNICAL EXPERTISE

- **Esri:** ArcGIS Desktop, ArcGIS Extensions, ArcGIS Server, ArcGIS Online

- **Programming Languages & Environments:** Python, Visual Basic, HTML, JavaScript, CSS, SQL, C#, ASPX

- **Databases:** SQL Server, MS Access

- **Other:** MS Office, MicroStation, Adobe Photoshop, MS Project
JENNIFER GORRIE, PMP
Project Manager/Business Analyst
GIS Solutions, Inc.

PROFESSIONAL EXPERIENCE

Ms. Gorrie has over 16 years of GIS experience and has been managing GIS projects for the past 9 years. Ms. Gorrie obtained her Project Management Professional certification from the Project Management Institute in 2007.

Ms. Gorrie has extensive experience with ESRI software including ArcGIS, ArcInfo, ArcSDE, ArcIMS, and ArcView.

2000 to Present – Project Manager, GIS Solutions, Inc.
As Project Manager, serves as the point of contact for all non-technical communication regarding contract performance issues: goal-setting, staffing, project scheduling, and financial considerations. Ms. Gorrie has been working in the GIS field for over fourteen years and served as a project manager for more than seven years. Before Project Management responsibilities, she worked as a GIS Applications Developer responsible for the development of custom applications for private and public agencies utilizing Esri software with object-oriented development environments such as Visual Basic, ASP.Net, Visual Basic.NET, DBMS and Internet technologies. Specific projects include:

- **Business Analyst, Illinois Department of Transportation, Springfield, IL.**
  Currently serving as the Scrum Master on the Federal Program Management (FPM) agile-based project. Objective of the FPM project is to develop a single system that tracks federal fund balances, applies federal edits based on fund types, records project status/history, maintains individual project trial balances, and bills the federal government on a weekly basis.

- **Business Analyst, Illinois Department of Transportation, Springfield, IL.**
  Currently functioning as a BA for the Program Planning System (PPS) project. PPS is the system of record for the Annual and Multi-Year roadway improvement projects. The PPS application is currently a Silverlight application, this objective of this project is to rebuild this system using .NET and provide a robust integrated mapping interface.

- **Business Analyst, Illinois Department of Transportation, Springfield, IL.**
  Worked as the BA for the Fiscal Management Information System (FMIS) modernization project. Geospatial data is now required for all federal obligation requests so IDOT created an interface in which persons from originating entities can initiate obligation requests by pulling needed PPS data and enter other required data as needed.

EDUCATION

B.A., Philosophy and History, University of Guelph, 1995
Forestry Technician, Sir Sanford Fleming College, 1998
Geographic Information Systems, Applications Specialist, Sir Sanford Fleming College, 1999

CERTIFICATIONS

Project Management Professional, Project Management Institute, 2007

TECHNICAL EXPERTISE

*Esri:* ArcGIS, ArcView, ArcGIS Server, ArcEngine, ArcSDE, ArcIMS, ArcGIS Extensions, ArcInfo

**Data bases:** SQL Server, MS Access

**Other:** MS Excel, MS Word, MS PowerPoint, MS Visio

TRAINING

Requirements Core Concepts
Requirements Visualization
Requirements Elicitation and Facilitation
Introduction to ORACLE: SQL and PL/SQL
ArcSDE Administration for SQL Server
Advanced ArcObjects Component
System Architecture Design
Jennifer Gorrie, PMP
Project Manager/ Business Analyst
GIS Solutions, Inc.

- **Business Analyst, Illinois Department of Transportation, Springfield, IL.** Worked on the project team to migrate the mainframe system that stores information about the Bridge Structures in the state to a GIS. Responsible for documenting business work flow processes, collecting, managing, and documenting key performance indicator requirements. Responsible for design and development of data entry and query pages in a Silverlight web application. Also involved with SQL Server database design and creation.

- **Project Manager, Springfield Metro Sanitary District, Springfield, IL.** Assisted SMSD with implementation of an Enterprise GIS system. Tasks include geodatabase design and maintenance; custom desktop tools; multi-user editing workflows; field data collection.

- **Project Manager/ Business Analyst, Illinois Department of Public Health.** Responsible for the completion of a comprehensive needs assessment and strategic plan for the IDPH Office of Preparedness and Response. The purpose of the assessment was to determine the feasibility of implementing a GIS to support OPR operations, planning, and management. Focused on user work requirements and work flow to identify where GIS applications can improve user productivity.

- **Technical Project Manager, Chicago Department of Water Management, Chicago, IL.** As the project's Technical Manager, served as the point of contact for all technical aspects of the project. Project involved converting CDWM's citywide Atlas Map CAD data into a GIS SDE geodatabase. Also responsible for management and coordination of the final QA/QC of converted data before delivery to CDWM.

- **Project Manager/ GIS Application Developer, Village of Chatham, IL.** Developed a custom Intranet website to manage the Village's work order requests. The application is used to create, update, query and map the work orders. The website utilizes VB.NET, ArcGIS Server, ArcSDE, and SQL Server technologies.

- **Project Manager/ GIS Application Developer, Springfield School District 186, Springfield, IL.** Developed a custom web application utilizing the Java Connector, HTML, Java Server Pages and Javascript. The application allows users to search for school locations and school information using a variety of search options.

- **GIS Application Developer, Chicago Public Schools, Chicago, IL.** Developed an extensive ArcObjects procedure to automate the process of validating geographically assigned schools. The process uses spatial analysis on base GIS data layers to create an output file detailing address ranges for each school attendance area. Project also included writing scripts to generate a report for each subsequent run to compare changes to attendance areas.

- **Technical Manager/ GIS Application Developer, Chicago Department of Water Management, Chicago, IL.** Responsible for management and coordination of the technical aspects of the project. Project included georeferencing water Atlas Pages for the city; developing ArcObjects scripts to automate pre-georeferencing process; creating a Microstation function to export the DGN file in the required format; and developing a citywide GIS data grid to be used in an ArcIMS application to facilitate printing tiff images of the service pages.

- **GIS Application Developer, Chicago Public Schools, Chicago, IL.** Developed a custom web application utilizing the Java Connector, HTML, Java Server Pages and Javascript. The application allows users to search for Early Childhood Education sites in the proximity of an entered address.
MAX WALKER
GIS Analyst
GIS Solutions, Inc.

Professional Experience

May 2012 to Present – GIS Analyst, GIS Solutions, Inc.

As a GIS Analyst for GIS Solutions, Inc., responsibilities include geospatial analysis, map compilation, data entry, development and management of quality control and accuracy procedures, coordinating GIS activities with project managers and application developers. Specific projects include:

- **Illinois Department of Transportation** Various tasks on different projects encompassing geospatial analysis, map compilation, and NAVTEQ processing.
  - **Oversize-Overweight Truck Permit Application** Responsibilities include data creation and integration. This includes gathering data from vendors, assigning that data to spatial locations and quality assessment of the data. This application also interacts with several other departments at IDOT which takes teamwork and understanding.
  - **Traffic Safety/Safety Analyst** Responsibilities include bridge location management, data manipulation and map/project creation for coworkers. Also working with development team to create code and tasks to showcase high densities of traffic crashes.

- **GIS Solutions’ School Analyst Project, Springfield, IL.** Responsibilities include collecting and digitizing school attendance boundaries, analyzing community demographic data. This includes collecting, maintaining, and organizing data from the Census Bureau, Nielsen PRIZM data, NCES School Universe Survey, individual school districts, and State Board of Education agencies.


- Processes NAVTEQ data for flooding and other maps. Also processed LiDAR data and assembled digital maps.

December 2010 to May 2010 – Research Assistant/ GIS Analyst, Illinois State University, Normal, IL

- Produced digital maps of archeological artifacts using ArcGIS and Adobe Illustrator

EDUCATION

Bachelor of Science, Geography
Minor in Environmental Studies
Illinois State University, 2011

TECHNICAL EXPERTISE

**Esri:** ArcGIS Desktop, ArcGIS Extensions

**Programming Languages & Environments:** Python

**Databases:** MS Access, SQL Server

**Operating Systems:** Windows XP, 7

**Other:** Microsoft Office, Adobe Photoshop/ Illustrator, Erdas Imagine
August 2010 to December 2010 – Research Assistant/ GIS Analyst, Illinois State University, Normal, IL

- Assembled literary analysis on gypsy moths. Then used satellite imagery and geospatial data to observe vegetation defoliation over years to produce digital maps to show change in vegetation imagery.

January 2010–May 2010 – Teacher Assistant, Illinois State University, Normal, IL

- Teaching students how to use Adobe Illustrator CSS and ArcGIS
- Assisting students during designated computer lab time and outside of class

Summers 2007 to 2010 – GIS Analyst and Data Collector, GIS Solutions, Springfield, IL

- Conducted research on United States school districts via internet data searches and telephone interviews.
- Constructed digital maps using ArcGIS, census data and school test scores.
# Colin Blair

**Application Architect and Developer**

## Professional Profile

Colin Blair is a highly experienced application architect and developer with nineteen years in the IT industry. Colin’s capabilities typically range from analysis, programming and database administration to lead developer and technical architect. Colin has direct experience working with agencies at the State of Illinois. Agencies include:

- Illinois Department of Transportation (IDOT)
- Illinois Department of Healthcare and Family Services (HFS)
- Illinois Department of Commerce and Economic Opportunity (DCEO).

Mr. Blair has demonstrated a talent for quickly acquiring in-depth understanding and knowledge of new technology in order to successfully architect and implement solutions that effectively fulfill business needs. He has also demonstrated his ability to transfer that knowledge to other people, a skill that was recognized when Microsoft award him with MVP awards for 2010, 2011, 2012, 2013, and 2014.

## Core Competencies & Essential Skills

Colin’s technical competencies and skills include the following:

<table>
<thead>
<tr>
<th>Languages:</th>
<th>C#, VB.NET, T-SQL, ANSI SQL, XML, Javascript, C++, Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Databases:</td>
<td>Microsoft SQL Server 6.5/7.0/2000/2005/2008/2012/2014</td>
</tr>
<tr>
<td></td>
<td>Silverlight, WCF RIA Services, ASP.NET, ASP, Microsoft Sharepoint, Microsoft BizTalk</td>
</tr>
<tr>
<td>Software/Tools:</td>
<td>Server, MS SQL Server, Microsoft Visual Studio 2002-2015, Active Reports, Crystal Reports, Microsoft Composite Application Block, Prism, ESRI ArcGIS, Bing Maps, Windows Service Bus</td>
</tr>
</tbody>
</table>

## Experience

### Electronic Knowledge Interchange

**2005 – Present**

**CLIENT - State of Illinois Department of Transportation (IDOT)**

**Role and Project – Bridge Project Tracking and Reporting (BPTR) Solution Architect, Developer**

- BPTR is an ASP.NET MVC application written to support the operations of the Bridge Office at IDOT.

**Responsibilities –**

- Mentoring other developers.
- Performing code reviews.
- Writing code to implement user stories.

**Results –** Application still under development.

**Role and Project – Integration, Program and Planning System (PPS)**

- PPS is an ASP.NET MVC application written to support planning construction projects for IDOT.

**Responsibilities –**

- Integrating PPS with other system within IDOT through Web API interfaces.

**Results –** Application still under development.

**Role and Project – Silverlight and database architect/developer, primary support and ongoing maintenance, Illinois Highway Inventory System (IHIS)**
- IHIS is a Silverlight line of business application that serves as the inventory system for roads and structures for the State of Illinois
- Replaces two existing mainframe systems

Responsibilities –
- Database design and implementation and data migration in SQL Server 2008
- Designed and implemented Silverlight application using WCF RIA Services, Telerik controls, and the ESRI Silverlight API to be a web-based user interface for inventory management
- Designed and implemented web service interface to ArcMap editor
- Designed and implemented web service interface for other agency applications to interact with IHIS

Results – The first half of IHIS, the Illinois Roadway Inventory System (IRIS), entered production in October 2010. The second half of IHIS, the Illinois Structure Inventory System (ISIS), entered production in July 2012. Ongoing and maintenance and upgrades have continued since the original releases.

Role and Project – .NET Windows application developer, Mobile Capture Reporting (MCR)
- MCR is a Smart Client application that communicates to a central server through a web service that is used by State and Local Police to enter crash information while on the scene or in the office.

Responsibility – Designed and built a .Net settings provider which saves user settings into a database. Designed and built display screens to manage settings within the CAB MVP architecture. Completed development and testing of partially completed rules system and researched SQL Server Express installation issues and server monitoring.

Results – Stabilized the application from its long list of bugs before transferring to a different project.

CLIENT - State of Illinois Healthcare and Family Services (DHFS)

Role and Project – While on HFS Energy Assistance Upgrade Implementation Projects, Colin served in a variety of roles including:
- MS SQL database architect/administrator (HFS Energy Assistance)
- .NET web developer (HFS Energy Assistance)
- MS Biztalk architect/developer (HFS Energy Assistance)
- Architect/developer (Low Income Home Assistance Program and Weatherization programs)

Responsibility – Involved actively in all phases of each project development. Involved closely in the design and implementation. Fully analyzed, designed, and coded significant components of the .NET applications.
- LIHEAP.NET systems is a .NET web application used to determine LIHEAP eligibility and benefits by program sub-grantees.
- EAFiscal is a .NET web application used to administer costs and budgets to support LIHEAP and Weatherization programs.
- Weatherworks is a .NET application used to audit low-income homes for energy efficiency to determine weatherization measures and costs.
- MS SQL database architect/administrator, .NET web developer, and MS Biztalk architect/developer.

Results – Projects were highly successful and are currently in production environment.

PREVIOUS EMPLOYER

COMPU-TECH LLC

1999 - 2004

CLIENT – Illinois Department of Public Aid

Role and Project – Technical Architect (Lead Database Programmer and Lead Tools Developer); Statewide software
Responsibility –
- Designed, built and maintained custom applications for small to medium business utilizing VB.NET, C#, ASP.NET, ASP, VB 6, Cold Fusion.
- Researched upcoming trends in technology to help guide the company to meet market needs.
- Designed and developed Tools statewide application designed to deliver financial aid to Illinois low-income citizens with heating related bills and services utilizing VB.Net, ASP.Net, MS SQL.
- Designed and served as Lead Developer for BizTalk communication systems to communicate with the regulated utilities throughout Illinois and exchange data in XML format in real-time for the LIHEAP.NET application utilizing XML, C#, MS SQL, BizTalk, XMLSpy.

Results - projects were highly successful.

CLIENT – Illinois Department of Commerce and Economic Opportunity (DCEO)

Role and Project – Consultant/Technical Architect and Lead Developer, Statewide/Agencies software application and development projects (Energy Assistance Fiscal, CRM, Content Management, WeatherWorks, Active Directory)

Responsibility –
- Performed software assessment study for portal and CRM solutions, based on this assessment, Sharepoint and MS CRM were selected. Designed the agency wide SharePoint Portal Implementation that is still in place today.
- Assisted in the design of a portal system using Microsoft SharePoint Portal Server and Microsoft Content Management Server.
- Designed and lead tools development for the building of a statewide application designed to deliver financial aid to Illinois low-income citizens with heating related bills and services. Continued on after program moved to IDPA.
- Responsible for database programming and design for Energy Assistance Fiscal system, a fiscal system designed to handle both federal and state funds in excess of $160 million dollars.
- Ensured proper federal and state auditing and security practices are followed. Assisted with administration of SQL Servers in coordination with agency staff.
- Acted as lead database designer, Lead Database Programmer, and Lead System Designer for the development of WeatherWorks a new application to manage the federal Weatherization program within Illinois.
- Maintained and configured Microsoft SQL server residing under Windows 2000 for department wide use.
- Created two Active Directory Domains in order to draw a clear separation between outside and inside users and resources.
- Assisted agency staff in normalizing the rules and instruction sets for server creations and server role changes.
- Windows 2000 Advanced Server installation, configuration and administration.
- Performed design and installation of clustered SQL Server environment. Researched and helped implement Microsoft Customer Relationship Management software.

Results - projects were highly successful and many are still in production environment.

PREVIOUS EMPLOYER

LEXIS NEXIS DOCUMENT SOLUTIONS
1997 - 2000

CLIENT - State of Illinois Department of Transportation (IDOT)

Role and Project – Lead Database, Administrator/Designer/Programmer/Analyst/Quality Assurance Tester for company.

Responsibility –
- Responsible for production databases on Microsoft SQL Server, Sybase SQL Anywhere, Bitwise, Pervasive SQL, DataFlex, and CTree platforms as well as associated testing and development databases.
- Responsible for rewrite all internal production systems in Visual C++ 6.0 and SQL Server with specifications provided using Rational Rose UML.

Resume of Colin Blair - Not to be presented, distributed or re-produced without express written permission from EKI
- Responsible for the development and maintenance of an application designed to monitor the workflow for a new division of the company that handled vehicle title filing and search services (Power ++, Crystal Reports, MS SQL).

Results - projects were highly successful and many are still in production environment.

EDUCATION & TRAINING

Western Illinois University, Macomb, IL
Computer Science

Lincoln Land Community College, Springfield, IL
Computer Science

MCP Exam 70-483 Programming in C#
STATE OF ILLINOIS
FORMS B CERTIFICATIONS AND DISCLOSURES

IPB Reference #: 22037966  Procurement/Contract #: N/A

This Forms B may be used when responding to an Invitation for Bid (IFB) or a Request for Proposal (RFP) if the vendor is registered in the Illinois Procurement Gateway (IPG) and has a valid IPG Registration Number.

If a vendor does not have a valid IPG registration number, then the vendor must complete and submit Forms A with their response. Failure to do so may render the submission non-responsive and result in disqualification.

Please read this entire section and provide the requested information as applicable. All parts in Forms B must be completed in full and submitted along with the vendor’s response.

1. Certification of Illinois Procurement Gateway Registration
   My business has a valid Illinois Procurement Gateway (IPG) registration. The State of Illinois Chief Procurement Office approved the registration and provided the IPG registration number and expiration date disclosed in this Forms B.

   To ensure that you have a valid registration in the IPG, search for your business name in the IPG Registered Vendor Directory. If your company does not appear in the search results, then you do not have a valid IPG registration.

   IPG Registration #: 20081470  IPG Expiration Date: April 8, 2017

2. Certification Timely to this Solicitation or Contract
   Vendor certifies it is not barred from having a contract with the State based upon violating the prohibitions related to either submitting/writing specifications or providing assistance to an employee of the State of Illinois by reviewing, drafting, directing, or preparing any Invitation for bids, a request for proposal, or request of information, or similar assistance (except as part of a public request for such information). 30 ILCS 500/50-10.5(e), amended by Public Act No. 97-0895 (August 3, 2012). ☒ Yes ☐ No

3. Replacement Certification to IPG Certification #6 (supersedes response in IPG)
   If Vendor has been convicted of a felony, Vendor certifies at least five years have passed since the date of completion of the sentence for such felony, unless no person held responsible by a prosecutor’s office for the facts upon which the conviction was based continues to have any involvement with the business. Vendor further certifies that it is not barred from being awarded a contract. 30 ILCS 500/50-10. ☒ Yes ☐ No

4. Disclosure of Lobbyist or Agent (Complete only if bid, offer, or contract has an annual value over $50,000)
   Is your company or parent entity(ies) represented by or do you or your parent entity(ies) employ a lobbyist required to register under the Lobbyist Registration Act (lobbyist must be registered pursuant to the Act with the Secretary of State) or an agent who has communicated, is communicating, or may communicate with any State/Public University officer or employee concerning the bid or offer? If yes, please identify each lobbyist and agent, including the name and address below. ☐ Yes ☒ No

   If yes, please identify each lobbyist and agent, including the name and address below. If you have a lobbyist that does not meet the criteria, then you do not have to disclose the lobbyist’s information. Additional rows may be inserted into the table or an attachment may be provided if needed.
STATE OF ILLINOIS
FORMS B CERTIFICATIONS AND DISCLOSURES

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Relationship to Disclosing Entity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Describe all costs/fees/compensation/reimbursements related to the assistance provided by each representative lobbyist or other agent to obtain this Agency/University contract: N/A

5. Disclosure of Current and Pending Contracts
Complete only if: (a) your business is for-profit and (b) the bid, offer, or contract has an annual value over $50,000. Do not complete if you are a not-for-profit entity.

☑ Yes ☐ No. Do you have any contracts, pending contracts, bids, proposals, subcontracts, leases or other ongoing procurement relationships with units of State of Illinois government?

If "Yes", please specify below. Additional rows may be inserted into the table or an attachment in the same format may be provided if needed.

<table>
<thead>
<tr>
<th>Agency/University</th>
<th>Project Title</th>
<th>Status</th>
<th>Value</th>
<th>Contract Reference/P.O./Illinois Procurement Bulletin #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation</td>
<td>GIS Resources</td>
<td>contract</td>
<td>$6,345,000</td>
<td>CIC1522300</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

6. Signature
As of the date signed below, I certify that:

- My business' information and the certifications made in the Illinois Procurement Gateway are truthful and accurate.
- The certifications and disclosures made in this Forms B are truthful and accurate.

This Forms B is signed by an authorized officer or employee on behalf of the bidder, offeror, or vendor pursuant to Sections 50-13 and 50-35 of the Illinois Procurement Code, and the affirmation of the accuracy of the financial disclosures is made under penalty of perjury.

This disclosure information is submitted on behalf of:

Vendor Name: GIS Solutions, Inc.
Street Address: 2612 Farragut Dr., 2nd FL
City, State, Zip: Springfield, IL 62704

Signature: [Signature]
Printed Name: Tim Johnson
Title: President

Phone: 217-546-3635
Email: infoaccount@gis-solutions.com
Vendor Contact: Tim Johnson

Date: June 3, 2016
STATE OF ILLINOIS
TAXPAYER IDENTIFICATION NUMBER

I certify that:
The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
I am a U.S. person (including a U.S. resident alien).

- If you are an individual, enter your name and SSN as it appears on your Social Security Card.
- If you are a sole proprietor, enter the owner's name on the name line followed by the name of the business and the owner's SSN or EIN.
- If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's name on the name line and the D/B/A on the business name line and enter the owner's SSN or EIN.
- If the LLC is a corporation or partnership, enter the entity's business name and EIN and for corporations, attach IRS acceptance letter (CP261 or CP277).
- For all other entities, enter the name of the entity as used to apply for the entity's EIN and the EIN.

Name: Tim Johnson
Business Name: GIS Solutions Inc.
Taxpayer Identification Number:
Social Security Number: N/A
or
Employer Identification Number: 7(1)(b)

Legal Status (check one):
- Individual
- Sole Proprietor
- Partnership
- Legal Services Corporation
- Tax-exempt
- Corporation providing or billing medical and/or health care services
- Corporation NOT providing or billing medical and/or health care services

Signature of Authorized Representative: 7(1)(b)

Date: June 3, 2016
OCIS CICIOCP1 OFFSET CONTRACT INQUIRY 08:24 08/18/16

ACTION: S

VENDOR NUMBER= 7(1)(b) OFFSET: 00 OF 00

CLAIMING AGENCY NUMBER: *
CLAIMING AGENCY NAME: *
CLAIMING AGENCY PHONE NUMBER: *

DISCLAIMER:
AS OF 08/18/16 AT 08:26 OUR INVOLUNTARY WITHHOLDING SYSTEM DOES NOT HAVE AN ACTIVE CLAIM AGAINST VENDOR NUMBER ******0582. PLEASE BE ADVISED THAT OUR SYSTEM ONLY CONTAINS CLAIMS FILED BY STATE AGENCIES PURSUANT TO 15 ILCS 405/10.05. A VENDOR MAY BE DELIQUENT IN A DEBT TO THE STATE OF ILLINOIS, BUT THE DEBT MAY NOT BE RECORDED ON OUR INVOLUNTARY WITHHOLDING SYSTEM.

ENTER=PROCESS, PF3=IOCM, PF12=REFRESH
A vendor responding to a solicitation by the State of Illinois must return the information requested within this section with their bid or offer if they are not registered in the Illinois Procurement Gateway (IPG). Failure to do so may render their bid or offer non-responsive and result in disqualification.

Please read this entire Forms A and provide the requested information as applicable and per the instructions. All forms and signature areas contained in this Forms A must be completed in full and submitted along with the bid in an Invitation for Bid; and completed in full and submitted along with the technical response and price proposal, which combined will constitute the Offer, in a Request for Proposal.

<table>
<thead>
<tr>
<th>Vendor Name:</th>
<th>Electronic Knowledge Interchange Company</th>
<th>Phone:</th>
<th>312-762-0129</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address:</td>
<td>33 W. Monroe Street</td>
<td>Email:</td>
<td><a href="mailto:Finance@eki-consulting.com">Finance@eki-consulting.com</a></td>
</tr>
<tr>
<td>City, State Zip:</td>
<td>Chicago IL 60603</td>
<td>Vendor Contact:</td>
<td>Jose Cruz</td>
</tr>
</tbody>
</table>
STATE OF ILLINOIS
BUSINESS AND DIRECTORY INFORMATION

1.1. Name of Business (official name and DBA)

Electronic Knowledge Interchange Company

1.2. Business Headquarters (address, phone and fax)

33 W. Monroe Street; suite 1050

Chicago IL. 60603

1.3. If a Division or Subsidiary of another organization provide the name and address of the parent

NA

1.4. Billing Address

33 W. Monroe Street; suite 1050

Chicago IL. 60603

1.5. Name of Chief Executive Officer

Robert Blackwell Jr.

1.6. Company Web Site Address

http://eki-digital.com/

1.7. Type of Organization (sole proprietor, corporation, etc.--should be same as on Taxpayer ID form below)

Corporation

1.8. Length of time in business

20 years

1.9. Annual Sales for Offeror's most recently completed fiscal year

7.5 Million

1.10. Show number of full-time employees, on average, during the most recent fiscal year

40
STATE OF ILLINOIS

ILLINOIS DEPARTMENT OF HUMAN RIGHTS PUBLIC CONTRACT NUMBER

2.1. If Offeror employed fifteen or more full-time employees at the time of submission of their response to this solicitation or any time during the previous 365-day period leading up to submission, it must have a current IDHR Public Contract Number or have proof of having submitted a completed application for one prior to the solicitation opening date. 775 ILCS 5/2-101. If the Agency/University cannot confirm compliance, it will not be able to consider a Vendor's bid or offer. Please complete the appropriate sections below:

Name of Company (and DBA): Electronic Knowledge Interchange Company.

☐ (check if applicable) The number is not required as the company has not met or exceeded the number of employees that makes registration necessary under the requirements of the Human Rights Act described above.

IDHR Public Contracts Number: 93618-00 Expiration Date: 11/14/2019.

2.2. If number has not yet been issued, provide the date a completed application for the number was submitted to IDHR: NA.

2.3. Upon expiration and until their Contractor Identification Number is renewed, companies will not be eligible to be awarded contracts by the State of Illinois or other jurisdictions that require a current IDHR number as a condition of contract eligibility. 44 Ill. Adm. Code 750.210(a).

2.4. Numbers issued by the Department of Human Rights (or its predecessor agency, the Illinois Fair Employment Practices Commission) prior to July 1, 1998 are no longer valid. This affects numbers below 89999-00-0. Valid numbers begin with 900000-00-0.

2.5. If Offeror's organization holds an expired number, it must re-register with the Department of Human Rights.

2.6. Offeror may obtain an application form by:

2.6.1. Telephone: Call the IDHR Public Contracts Unit at (312) 814-2431 between Monday and Friday, 8:30 AM - 5:00 PM, CST. (TDD (312) 263-1579).

2.6.2. Internet: You may download the form from the Department of Human Rights' website at (http://www2.illinois.gov/dhr/PublicContracts/Pages/default.aspx).

2.6.3. Mail: Write to the Department of Human Rights, Public Contracts Unit, 100 West Randolph Street, Suite 10-100, Chicago, IL 60601.
STATE OF ILLINOIS
AUTHORIZED TO TRANSACT BUSINESS OR CONDUCT AFFAIRS IN ILLINOIS

3. A person, other than an individual acting as a sole proprietor, must be a duly constituted legal entity and authorized to transact business or conduct affairs in Illinois prior to submitting an offer. 30 ILCS 500/20-43. Offerors must review and complete certification #4.32 in the Standard Certifications found in Forms A, Part 4.

Certification #4.32 requires Vendor to check one of two boxes representing its status. The State may request evidence from a vendor that certifies it is authorized to do business in Illinois proving such authorization. Failure to produce evidence in a timely manner may be considered grounds for determining Vendor non-responsive or not responsible.

For information on registering to transact business or conduct affairs in Illinois, please visit the Illinois Secretary of State’s Department of Business Services at their website at (http://cyberdriveillinois.com/departments/business_services/home.html) or your home county clerk.

EVIDENCE OF BEING AUTHORIZED TO TRANSACT BUSINESS OR CONDUCT AFFAIRS IS THE SECRETARY OF STATE’S CERTIFICATE OF GOOD STANDING

[Image of Certificate of Good Standing]

To all to whom these Presents Shall Come, Greeting:

I, Jane Doe, Secretary of State of the State of Illinois, do hereby certify that

THE FIRM OF [COMPANY NAME] IS AUTHORIZED TO TRANSACT BUSINESS OR CONDUCT AFFAIRS IN ILLINOIS AND IS IN COMPLIANCE WITH ALL THE PROVISIONS OF THE BUSINESS ASSOCIATION ACT OF 1973 RELATING TO THE FIRM’S ABILITY TO DO BUSINESS IN ILLINOIS.

In Testimony Whereof, Illinois,

[Signature]
Secretary of State

[Date]

7(1)(b)
STATE OF ILLINOIS
STANDARD CERTIFICATIONS
For Electronic Knowledge Interchange Company

Vendor acknowledges and agrees that compliance with this subsection in its entirety for the term of the contract and any renewals is a material requirement and condition of this contract. By executing this contract Vendor certifies compliance with this subsection in its entirety, and is under a continuing obligation to remain in compliance and report any non-compliance.

This subsection, in its entirety, applies to subcontractors used on this contract. Vendor shall include these Standard Certifications in any subcontract used in the performance of the contract using the Standard Certification form provided by the State.

If this contract extends over multiple fiscal years, including the initial term and all renewals, Vendor and its subcontractors shall confirm compliance with this section in the manner and format determined by the State by the date specified by the State and in no event later than July 1 of each year that this contract remains in effect.

If the Parties determine that any certification in this section is not applicable to this contract it may be stricken without affecting the remaining subsections.

4.1. As part of each certification, Vendor acknowledges and agrees that should Vendor or its subcontractors provide false information, or fail to be or remain in compliance with the Standard Certification requirements, one or more of the following sanctions will apply:

- the contract may be void by operation of law,
- the State may void the contract, and
- the Vendor and its subcontractors may be subject to one or more of the following: suspension, debarment, denial of payment, civil fine, or criminal penalty.

Identifying a sanction or failing to identify a sanction in relation to any of the specific certifications does not waive imposition of other sanctions or preclude application of sanctions not specifically identified.

4.2. Vendor certifies it and its employees will comply with applicable provisions of the United States Civil Rights Act, Section 504 of the Federal Rehabilitation Act, the Americans with Disabilities Act, and applicable rules in performance of this contract.

4.3. Vendor, if an individual, sole proprietor, partner or an individual as member of a LLC, certifies he/she is not in default on an educational loan. 5 ILCS 385/3.

4.4. Vendor, if an individual, sole proprietor, partner or an individual as member of a LLC, certifies he/she has not received (i) an early retirement incentive prior to 1993 under Section 14-108.3 or 16-133.3 of the Illinois Pension Code or (ii) an early retirement incentive on or after 2002 under Section 14-108.3 or 16-133.3 of the Illinois Pension Code. 30 ILCS 105/15a; 40 ILCS 5/14-108.3; 40 ILCS 5/16-133.

4.5. Vendor certifies that it is a legal entity authorized to do business in Illinois prior to submission of a bid, offer, or proposal. 30 ILCS 500/1-15.80, 20-43.
STATE OF ILLINOIS  
STANDARD CERTIFICATIONS  
For Electronic Knowledge Interchange Company  

4.6. To the extent there was a current Vendor providing the services covered by this contract and the employees of that Vendor who provided those services are covered by a collective bargaining agreement, Vendor certifies (i) that it will offer to assume the collective bargaining obligations of the prior employer, including any existing collective bargaining agreement with the bargaining representative of any existing collective bargaining unit or units performing substantially similar work to the services covered by the contract subject to its bid or offer; and (ii) that it shall offer employment to all employees currently employed in any existing bargaining unit who perform substantially similar work to the work that will be performed pursuant to this contract. This does not apply to heating, air conditioning, plumbing and electrical service contracts. 30 ILCS 500/25-80.

4.7. Vendor certifies it has neither been convicted of bribing or attempting to bribe an officer or employee of the State of Illinois or any other State, nor made an admission of guilt of such conduct that is a matter of record. 30 ILCS 500/50-5.

4.8. If Vendor has been convicted of a felony, Vendor certifies at least five years have passed after the date of completion of the sentence for such felony, unless no person held responsible by a prosecutor's office for the facts upon which the conviction was based continues to have any involvement with the business. 30 ILCS 500/50-10.

4.9. If Vendor or any officer, director, partner, or other managerial agent of Vendor has been convicted of a felony under the Sarbanes-Oxley Act of 2002, or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953, Vendor certifies at least five years have passed since the date of the conviction. Vendor further certifies that it is not barred from being awarded a contract and acknowledges that the State shall declare the contract void if this certification is false. 30 ILCS 500/50-10.5.

4.10. Vendor certifies it is not barred from having a contract with the State based upon violating the prohibitions related to either submitting/writing specifications or providing assistance to an employee of the State of Illinois by reviewing, drafting, directing, or preparing any invitation for bids, a request for proposal, or request of information, or similar assistance (except as part of a public request for such information). 30 ILCS 500/50-10.5(e), amended by Pub. Act No. 97-0895 (August 3, 2012).

4.11. Vendor certifies that it and its affiliates are not delinquent in the payment of any debt to the State (or if delinquent has entered into a deferred payment plan to pay the debt), and Vendor and its affiliates acknowledge the State may declare the contract void if this certification is false or if Vendor or an affiliate later becomes delinquent and has not entered into a deferred payment plan to pay off the debt. 30 ILCS 500/50-11, 50-60.

4.12. Vendor certifies that it and all affiliates shall collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with provisions of the Illinois Use Tax Act and acknowledges that failure to comply may result in the contract being declared void. 30 ILCS 500/50-12.

4.13. Vendor certifies that it has not been found by a court or the Pollution Control Board to have committed a willful or knowing violation of the Environmental Protection Act within the last five years, and is therefore not barred from being awarded a contract. 30 ILCS 500/50-14.

4.14. Vendor certifies it has neither paid any money or valuable thing to induce any person to refrain from bidding on a State contract, nor accepted any money or other valuable thing, or acted upon the promise of same, for not bidding on a State contract. 30 ILCS 500/50-25.
STATE OF ILLINOIS
STANDARD CERTIFICATIONS
For Electronic Knowledge Interchange Company


4.16. Vendor certifies that it has not retained a person or entity to attempt to influence the outcome of a procurement decision for compensation contingent in whole or in part upon the decision or procurement. 30 ILCS 500/50-38.

4.17. Vendor certifies that if it has hired a person required to register under the Lobbyist Registration Act to assist in obtaining any State contract, that none of the lobbyist’s costs, fees, compensation, reimbursements, or other remuneration were billed to the State. 30 ILCS 500/50-38.

4.18. Vendor certifies it will report to the Illinois Attorney General and the Chief Procurement Officer any suspected collusion or other anti-competitive practice among any bidders, offerors, contractors, proposers, or employees of the State. 30 ILCS 500/50-40, 50-45, 50-50.

4.19. Vendor certifies steel products used or supplied in the performance of a contract for public works shall be manufactured or produced in the United States, unless the executive head of the procuring Agency/University grants an exception. 30 ILCS 565.

4.20. Drug Free Workplace

4.20.1. If Vendor employs 25 or more employees and this contract is worth more than $5,000, Vendor certifies it will provide a drug free workplace pursuant to the Drug Free Workplace Act.

4.20.2. If Vendor is an individual and this contract is worth more than $5000, Vendor certifies it shall not engage in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance during the performance of the contract. 30 ILCS 580.

4.21. Vendor certifies that neither Vendor nor any substantially owned affiliate is participating or shall participate in an international boycott in violation of the U.S. Export Administration Act of 1979 or the applicable regulations of the United States. Department of Commerce. 30 ILCS 582.

4.22. Vendor certifies it has not been convicted of the offense of bid rigging or bid rotating or any similar offense of any state or of the United States. 720 ILCS 5/33 E-3, E-4.

4.23. Vendor certifies it complies with the Illinois Department of Human Rights Act and rules applicable to public contracts, which include providing equal employment opportunity, refraining from unlawful discrimination, and having written sexual harassment policies. 775 ILCS 5/2-105.

4.24. Vendor certifies it does not pay dues to or reimburse or subsidize payments by its employees for any dues or fees to any “discriminatory club.” 775 ILCS 25/2.

4.25. Vendor certifies that no foreign-made equipment, materials, or supplies furnished to the State under the contract have been or will be produced in whole or in part by forced labor or indentured labor under penal sanction. 30 ILCS 583.

4.26. Vendor certifies that no foreign-made equipment, materials, or supplies furnished to the State under the contract have been produced in whole or in part by the labor of any child under the age of 12. 30 ILCS 584.
STATE OF ILLINOIS
STANDARD CERTIFICATIONS
For Electronic Knowledge Interchange Company

4.27. Vendor certifies that any violation of the Lead Poisoning Prevention Act, as it applies to owners of residential buildings, has been mitigated. 410 ILCS 45.

4.28. Vendor warrants and certifies that it and, to the best of its knowledge, its subcontractors have and will comply with Executive Order No. 1 (2007). The Order generally prohibits Vendors and subcontractors from hiring the then-serving Governor’s family members to lobby procurement activities of the State, or any other unit of government in Illinois including local governments if that procurement may result in a contract valued at over $25,000. This prohibition also applies to hiring for that same purpose any former State employee who had procurement authority at any time during the one-year period preceding the procurement lobbying activity.

4.29. Vendor certifies that information technology, including electronic information, software, systems and equipment, developed or provided under this contract comply with the applicable requirements of the Illinois Information Technology Accessibility Act Standards as published at (www.dhs.state.il.us/iitaa) 30 ILCS 587.

4.30. Vendor certifies that it has read, understands, and is in compliance with the registration requirements of the Elections Code (10 ILCS 5/9-35) and the restrictions on making political contributions and related requirements of the Illinois Procurement Code. 30 ILCS 500/20-160 and 50-37. Vendor will not make a political contribution that will violate these requirements.

In accordance with section 20-160 of the Illinois Procurement Code, Vendor certifies as applicable:

☐ Vendor is not required to register as a business entity with the State Board of Elections.

or

☒ Vendor has registered with the State Board of Elections. As a registered business entity, Vendor acknowledges a continuing duty to update the registration as required by the Act.

4.31. Vendor certifies that if it is awarded a contract through the use of the preference required by the Procurement of Domestic Products Act, then it shall provide products pursuant to the contract or a subcontract that are manufactured in the United States. 30 ILCS 517.

4.32. A person (other than an individual acting as a sole proprietor) must be a duly constituted legal entity and authorized to transact business or conduct affairs in Illinois prior to submitting a bid or offer. 30 ILCS 500/20-43. If you do not meet these criteria, then your bid or offer will be disqualified.

Vendor must make one of the following two certifications by checking the appropriate box.

A. ☐ Vendor certifies it is an individual acting as a sole proprietor and is therefore not subject to the requirements of section 20-43 of the Procurement Code.

B. ☒ Vendor certifies that it is a legal entity, and was authorized to transact business or conduct affairs in Illinois as of the date for submitting this bid or offer. The State may require Vendor to provide evidence of compliance before award.

4.33. Vendor certifies that, for the duration of this contract it will:

State of Illinois Chief Procurement Office
General Services
IFB or RFP Solicitation: Forms A: Standard Certifications
V. 15.2a
STATE OF ILLINOIS
STANDARD CERTIFICATIONS
For Electronic Knowledge Interchange Company

- post its employment vacancies in Illinois and border states on the Department of Employment Security's IllinoisJobLink.com website or its successor system; or
- will provide an online link to these employment vacancies so that this link is accessible through the IllinoisJobLink.com website or successor system; or
- is exempt from 20 ILCS 1005/1005-47 because the contract is for construction-related services as that term is defined in section 1-15.20 of the Procurement Code; or the contract is for construction and vendor is a party to a contract with a bona fide labor organization and performs construction. (20 ILCS 1005/1005-47).

Name of Disclosing Entity: Electronic Knowledge Interchange Company

Signature: 7(1)(b) Date: 6/2/2016

Printed Name: Robert Blackwell Jr

Title: President

Phone Number: 312-236-2002

Email Address: rblackwell@eki-consulting.com
Section 50-37 of the Illinois Procurement Code prohibits political contributions of certain vendors, bidders and offerors. Additionally, section 9-35 of the Illinois Election Code governs provisions relating to reporting and making contributions to state officeholders, declared candidates for State offices and covered political organizations that promote the candidacy of an officeholder or declared candidate for office. The State may declare any resultant contract void if these Acts are violated.

Generally, if a vendor, bidder, or offeror is an entity doing business for profit (i.e. sole proprietorship, partnership, corporation, limited liability company or partnership, or otherwise) and has contracts with State agencies that annually total more than $50,000 or whose aggregate pending bids or proposals and current State contracts that total more than $50,000, the vendor, bidder, or offeror is prohibited from making political contributions and must register with the State Board of Elections. 30 ILCS 500/20-160.

EVIDENCE OF REGISTRATION WITH THE STATE BOARD OF ELECTIONS
IS THE CERTIFICATE OF REGISTRATION
STATE OF ILLINOIS
DISCLOSURE OF BUSINESS OPERATIONS WITH IRAN

6. In accordance with 30 ILCS 500/50-36, each bid, offer, or proposal submitted for a State contract, other than a small purchase defined in Section 20-20 of the Illinois Procurement Code, will include a disclosure of whether or not the bidder, offeror, or proposing entity, or any of its corporate parents or subsidiaries, within the 24 months before submission of the bid, offer, or proposal had business operations that involved contracts with or provision of supplies or services to the Government of Iran, companies in which the Government of Iran has any direct or indirect equity share, consortiums or projects commissioned by the Government of Iran and:

- more than 10% of the company’s revenues produced in or assets located in Iran involve oil-related activities or mineral-extraction activities; less than 75% of the company’s revenues produced in or assets located in Iran involve contracts with or provision of oil-related or mineral – extraction products or services to the Government of Iran or a project or consortium created exclusively by that Government; and the company has failed to take substantial action; or

- the company has, on or after August 5, 1996, made an investment of $20 million or more, or any combination of investments of at least $10 million each that in the aggregate equals or exceeds $20 million in any 12-month period that directly or significantly contributes to the enhancement of Iran’s ability to develop petroleum resources of Iran.

A bid or offer that does not include this disclosure may be given a period after the bid or offer is submitted to cure non-disclosure. A chief procurement officer may consider the disclosure when evaluating the bid or offer or awarding the contract.

☒ There are no business operations that must be disclosed to comply with the above cited law.
☐ The following business operations are disclosed to comply with the above cited law:

NA
STATE OF ILLINOIS
FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

The Financial Disclosures and Conflicts of Interest form ("form") must be accurately completed and submitted by the vendor, parent entity(ies), and subcontractors. There are nine steps to this form and each must be completed as instructed in the step heading and within the step. A bid or offer that does not include this form shall be considered non-responsive. The Agency/University will consider this form when evaluating the bid or offer or awarding the contract.

The requirement of disclosure of financial interests and conflicts of interest is a continuing obligation. If circumstances change and the disclosure is no longer accurate, then disclosing entities must provide an updated form.

Separate forms are required for the vendor, parent entity(ies), and subcontractors.

This disclosure is submitted for:

☐ Vendor

☐ Vendor’s Parent Entity(ies) (100% ownership)

☒ Subcontractor(s) >$50,000 (annual value)

☐ Subcontractor’s Parent Entity(ies) (100% ownership) > $50,000 (annual value)

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Geographic Information System (GIS) Service Oriented Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois Procurement Bulletin Number</td>
<td>22037966</td>
</tr>
<tr>
<td>Contract Number</td>
<td>N/A</td>
</tr>
<tr>
<td>Vendor Name</td>
<td>GIS Solutions, Inc.</td>
</tr>
<tr>
<td>Doing Business As (DBA)</td>
<td>GIS Solutions, Inc.</td>
</tr>
<tr>
<td>Disclosing Entity</td>
<td>Electronic Knowledge Interchange Company</td>
</tr>
<tr>
<td>Disclosing Entity’s Parent Entity</td>
<td>N/A</td>
</tr>
<tr>
<td>Subcontractor</td>
<td>Electronic Knowledge Interchange Company</td>
</tr>
<tr>
<td>Instrument of Ownership or Beneficial Interest</td>
<td>Corporate Stock (C-Corporation, S-Corporation, Professional Corporation, Service Corporation) ☐ If you selected Other, please describe: Click here to enter text.</td>
</tr>
</tbody>
</table>
FINANCIAL DISCLOSURES AND CONFLICTS OF INTERESTS

You must select one of the six options below and select the documentation you are submitting. You must provide the documentation that the applicable section requires with this form.

☐ Option 1 – Publicly Traded Entities

1.A. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% ($106,447.20) of the annual salary of the Governor.

OR

1.B. ☐ Attach a copy of the Federal 10-K or provide a web address of an electronic copy of the Federal 10-K, and skip to Step 3.

☐ Option 2 – Privately Held Entities with more than 100 Shareholders

2.A. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% ($106,447.20) of the annual salary of the Governor.

OR

2.B. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership share in excess of 5% and attach the information Federal 10-K reporting companies are required to report under 17 CFR 229.401.

☒ Option 3 – All other Privately Held Entities, not including Sole Proprietorships

3.A. ☒ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% ($106,447.20) of the annual salary of the Governor.

☐ Option 4 – Foreign Entities

4.A. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% ($106,447.20) of the annual salary of the Governor.

OR

4.B. ☐ Attach a copy of the Securities Exchange Commission Form 20-F or 40-F and skip to Step 3.

☐ Option 5 – Not-for-Profit Entities

☐ Complete Step 2, Option B.

☐ Option 6 – Sole Proprietorships

☑ Skip to Step 3.
FINANCIAL DISCLOSURES AND CONFLICTS OF INTERESTS

Complete either Option A (for all entities other than not-for-profits) or Option B (for not-for-profits). Additional rows may be inserted into the tables or an attachment may be provided if needed.

**OPTION A – Ownership Share and Distributive Income**

Ownership Share – If you selected Option 1.A., 2.A., 3.A., or 4.A. in Step 1, provide the name and address of each individual or entity and their percentage of ownership if said percentage exceeds 5%, or the dollar value of their ownership if said dollar value exceeds $106,447.20.

☐ Check here if including an attachment with requested information in a format substantially similar to the format below.

<table>
<thead>
<tr>
<th>TABLE – X</th>
<th>Name</th>
<th>Address</th>
<th>Percentage of Ownership</th>
<th>$ Value of Ownership</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Blackwell Jr</td>
<td>33 W. Monroe Street</td>
<td>100%</td>
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</tbody>
</table>

Distributive Income – If you selected Option 1.A., 2.A., 3.A., or 4.A. in Step 1, provide the name and address of each individual or entity and their percentage of the disclosing vendor’s total distributive income if said percentage exceeds 5% of the total distributive income of the disclosing entity, or the dollar value of their distributive income if said dollar value exceeds $106,447.20.

☐ Check here if including an attachment with requested information in a format substantially similar to the format below.

<table>
<thead>
<tr>
<th>TABLE – Y</th>
<th>Name</th>
<th>Address</th>
<th>% of Distributive Income</th>
<th>$ Value of Distributive Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Blackwell</td>
<td>33 W. Monroe Street</td>
<td>100</td>
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FINANCIAL DISCLOSURES AND CONFLICTS OF INTERESTS

Please certify that the following statements are true.

I have disclosed all individuals or entities that hold an ownership interest of greater than 5% or greater than $106,447.20.

☒ Yes ☐ No

I have disclosed all individuals or entities that were entitled to receive distributive income in an amount greater than $106,447.20 or greater than 5% of the total distributive income of the disclosing entity.

☒ Yes ☐ No

OPTION B – Disclosure of Board of Directors (Not-for-Profits)

If you selected Option 5 in Step 1, list members of your board of directors. Please include an attachment if necessary.

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<th>Name</th>
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</table>

☐ Yes ☒ No. Is your company represented by or do you employ a lobbyist required to register under the Lobbyist Registration Act (lobbyist must be registered pursuant to the Act with the Secretary of State) or other agent who is not identified through Step 2, Option A above and who has communicated, is communicating, or may communicate with any State/Public University officer or employee concerning the bid or offer? If yes, please identify each lobbyist and agent, including the name and address below.

If you have a lobbyist that does not meet the criteria, then you do not have to disclose the lobbyist’s information.

<table>
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<tr>
<th>Name</th>
<th>Address</th>
<th>Relationship to Disclosing Entity</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td></td>
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</tr>
</tbody>
</table>

Describe all costs/fees/compensation/reimbursements related to the assistance provided by each representative lobbyist or other agent to obtain this Agency/University contract:
FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

Step 4 must be completed for each person disclosed in Step 2, Option A and for sole proprietors identified in Step 1, Option 6 above. Please provide the name of the person for which responses are provided: Robert Blackwell Jr.

1. Do you hold or are you the spouse or minor child who holds an elective office in the State of Illinois or hold a seat in the General Assembly? □ Yes □ No

2. Have you, your spouse, or minor child been appointed to or employed in any offices or agencies of State government and receive compensation for such employment in excess of 60% ($106,447.20) of the salary of the Governor? □ Yes □ No

3. Are you or are you the spouse or minor child of an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority? □ Yes □ No

4. Have you, your spouse, or an immediate family member who lives in your residence currently or who lived in your residence within the last 12 months been appointed as a member of a board, commission, authority, or task force authorized or created by State law or by executive order of the Governor? □ Yes □ No

5. If you answered yes to any question in 1-4 above, please answer the following: Do you, your spouse, or minor child receive from the vendor more than 7.5% of the vendor's total distributable income or an amount of distributable income in excess of the salary of the Governor ($177,412.00)? □ Yes □ No

6. If you answered yes to any question in 1-4 above, please answer the following: Is there a combined interest of self with spouse or minor child more than 15% in the aggregate of the vendor's distributable income or an amount of distributable income in excess of two times the salary of the Governor ($354,824.00)? □ Yes □ No

Step 5 must be completed for each person disclosed in Step 2, Option A and for sole proprietors identified in Step 1, Option 6 above.

Please provide the name of the person for which responses are provided: Robert Blackwell Jr.

1. Do you currently have, or in the previous 3 years have you had State employment, including contractual employment of services? □ Yes □ No

2. Has your spouse, father, mother, son, or daughter, had State employment, including contractual employment for services, in the previous 2 years? □ Yes □ No

State of Illinois Chief Procurement Office General Services
RFP Solicitation: Forms A: Financial Disclosures and Conflicts of Interest
W 15.2a
FINANCIAL DISCLOSURES AND CONFLICTS OF INTERESTS

3. Do you hold currently or have you held in the previous 3 years elective office of the State of Illinois, the government of the United States, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois? □ Yes ☑ No

4. Do you have a relationship to anyone (spouse, father, mother, son, or daughter) holding elective office currently or in the previous 2 years? □ Yes ☑ No

5. Do you hold or have you held in the previous 3 years any appointive government office of the State of Illinois, the United States of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of expenses incurred in the discharge of that office? □ Yes ☑ No

6. Do you have a relationship to anyone (spouse, father, mother, son, or daughter) holding appointive office currently or in the previous 2 years? □ Yes ☑ No

7. Do you currently have or in the previous 3 years had employment as or by any registered lobbyist of the State government? □ Yes ☑ No

8. Do you currently have or in the previous 2 years had a relationship to anyone (spouse, father, mother, son, or daughter) that is or was a registered lobbyist? □ Yes ☑ No

9. Do you currently have or in the previous 3 years had compensated employment by any registered election or re-election committee registered with the Secretary of State or any county clerk in the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections? □ Yes ☑ No

10. Do you currently have or in the previous 2 years had a relationship to anyone (spouse, father, mother, son, or daughter) who is or was a compensated employee of any registered election or re-election committee registered with the Secretary of State or any county clerk in the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections? □ Yes ☑ No

If you answered “Yes” in Step 4 or Step 5, please provide on an additional page a detailed explanation that includes, but is not limited to the name, salary, State agency or university, and position title of each individual.
This step must be completed for each person disclosed in Step 2, Option A, Step 3, and for each entity and sole proprietor disclosed in Step 1.

Please provide the name of the person or entity for which responses are provided: Robert Blackwell Jr.

1. Within the previous ten years, have you had debarment from contracting with any governmental entity? □ Yes □ No
2. Within the previous ten years, have you had any professional licensure discipline? □ Yes □ No
3. Within the previous ten years, have you had any bankruptcies? □ Yes □ No
4. Within the previous ten years, have you had any adverse civil judgments and administrative findings? □ Yes □ No
5. Within the previous ten years, have you had any criminal felony convictions? □ Yes □ No

If you answered “Yes”, please provide a detailed explanation that includes, but is not limited to the name, State agency or university, and position title of each individual.

If you selected Option 1, 2, 3, 4, or 6 in Step 1, do you have any contracts, pending contracts, bids, proposals, subcontracts, leases or other ongoing procurement relationships with units of State of Illinois government?
□ Yes □ No.

If “Yes”, please specify below. Additional rows may be inserted into the table or an attachment may be provided if needed.
FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

<table>
<thead>
<tr>
<th>IDES</th>
<th>IBIS/EUC Programming</th>
<th>Contract</th>
</tr>
</thead>
</table>

Please explain the procurement relationship: IDOT-Subcontractor thru GIS Solutions. IDES-Contractor direct to IDES.

**STEP 9**

**SIGN THE DISCLOSURE**

(All vendors must complete regardless of annual bid, offer, or contract value)
(Subcontractors with subcontract annual value of more than $50,000 must complete)

This disclosure is signed, and made under penalty of perjury for all for-profit entities, by an authorized officer or employee on behalf of the bidder or offeror pursuant to Sections 50-13 and 50-35 of the Illinois Procurement Code. This disclosure information is submitted on behalf of:

Name of Disclosing Entity: Electronic Knowledge Interchange Company

Signature: ____________________________ Date: 6/2/2016

Printed Name: Robert Blackwell Jr.

Title: President

Phone Number: 312-236-2002

Email Address: rblackwell@eki-consulting.com
STATE OF ILLINOIS
TAXPAYER IDENTIFICATION NUMBER

I certify that:
The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued
to me), and
I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified
by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest
or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
I am a U.S. person (including a U.S. resident alien).
• If you are an individual, enter your name and SSN as it appears on your Social Security Card.
• If you are a sole proprietor, enter the owner's name on the name line followed by the name of the business
and the owner's SSN or EIN.
• If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's
name on the name line and the D/B/A on the business name line and enter the owner's SSN or EIN.
• If the LLC is a corporation or partnership, enter the entity's business name and EIN and for corporations,
attach IRS acceptance letter (CP261 or CP277).
• For all other entities, enter the name of the entity as used to apply for the entity's EIN and the EIN.
Name: Robert Blackwell Jr.
Business Name: Electronic Knowledge Interchange Company
Taxpayer Identification Number:
Social Security Number:
or
Employer Identification Number: 7(1)(b)

Legal Status (check one):
☐ Individual
☐ Sole Proprietor
☐ Partnership
☐ Legal Services Corporation
☐ Tax-exempt
☐ Corporation providing or billing
medical and/or health care services
☒ Corporation NOT providing or billing
medical and/or health care services

☐ Governmental
☐ Nonresident alien
☐ Estate or trust
☐ Pharmacy (Non-Corp.)
☐ Pharmacy/Funeral, Homé/Cemetery (Corp.)
☐ Limited Liability Company
(select applicable tax classification)
☐ C = corporation
☐ P = partnership

Signature of Authorized Representative: 7(1)(b)

Date: June 2, 2016
STATE OF ILLINOIS
TAXPAYER IDENTIFICATION NUMBER

I certify that:
The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
I am a U.S. person (including a U.S. resident alien).

- If you are an individual, enter your name and SSN as it appears on your Social Security Card.
- If you are a sole proprietor, enter the owner’s name on the name line followed by the name of the business and the owner’s SSN or EIN.
- If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner’s name on the name line and the D/B/A on the business name line and enter the owner’s SSN or EIN.
- If the LLC is a corporation or partnership, enter the entity’s business name and EIN and for corporations, attach IRS acceptance letter (CP251 or CP277).
- For all other entities, enter the name of the entity as used to apply for the entity’s EIN and the EIN.

Name: Robert Blackwell Jr.
Business Name: Electronic Knowledge Interchange Company
Taxpayer Identification Number:

Social Security Number:

or

Employer Identification Number: 7(1)(b)

Legal Status (check one):

☐ Individual
☐ Sole Proprietor
☐ Partnership
☐ Legal Services Corporation
☐ Tax-exempt
☐ Corporation providing or billing medical and/or health care services
☒ Corporation NOT providing or billing medical and/or health care services

☐ Governmental
☐ Nonresident alien
☐ Estate or trust
☐ Pharmacy (Non-Corp.)
☐ Pharmacy/Funeral Home/Cemetery (Corp.)
☐ Limited Liability Company

(select applicable tax classification)

☐ C = corporation
☐ P = partnership

Signature of Authorized Representative: ...

Date: June 2, 2016
A vendor responding to a solicitation by the State of Illinois must return the information requested within this section with their bid or offer if they are not registered in the Illinois Procurement Gateway (IPG). Failure to do so may render their bid or offer non-responsive and result in disqualification.

Please read this entire Forms A and provide the requested information as applicable and per the instructions. All forms and signature areas contained in this Forms A must be completed in full and submitted along with the bid in an Invitation for Bid; and completed in full and submitted along with the technical response and price proposal, which combined will constitute the Offer, in a Request for Proposal.

<table>
<thead>
<tr>
<th>Vendor Name: Raptor Software, Inc.</th>
<th>Phone: 309-531-6522</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address: 27 Kensington Circle</td>
<td>Email: <a href="mailto:dave@raptorsoftwareinc.com">dave@raptorsoftwareinc.com</a></td>
</tr>
<tr>
<td>City, State Zip: Bloomington, IL 61704</td>
<td>Vendor Contact: Dave Cheley</td>
</tr>
</tbody>
</table>

In compliance with the State and Federal Constitutions, the Illinois Human Rights Act, the U.S. Civil Rights Act, and Section 504 of the Federal Rehabilitation Act, the State of Illinois does not discriminate in employment, contracts, or any other activity.

The State of Illinois encourages prospective vendors to consider hiring qualified veterans and Illinois residents discharged from any Illinois adult correctional center, in appropriate circumstances.
OUTLINE

FORMS A

Complete this section if you are not using an IPG (Illinois Procurement Gateway) Registration #

<table>
<thead>
<tr>
<th>Part</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Business and Directory Information</td>
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<td>2.</td>
<td>Illinois Department of Human Rights Public Contracts Number</td>
</tr>
<tr>
<td>3.</td>
<td>Authorized to Do Business in Illinois</td>
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<td>4.</td>
<td>Standard Certifications</td>
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<td>5.</td>
<td>State Board of Elections</td>
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<td>6.</td>
<td>Disclosure of Business Operations in Iran</td>
</tr>
<tr>
<td>7.</td>
<td>Financial Disclosures and Conflicts of interest</td>
</tr>
<tr>
<td>8.</td>
<td>Taxpayer Identification Number</td>
</tr>
</tbody>
</table>
STATE OF ILLINOIS
BUSINESS AND DIRECTORY INFORMATION

1.1. Name of Business (official name and DBA)
Raptor Software, Inc.

1.2. Business Headquarters (address, phone and fax)
27 Kensington Circle, Bloomington, IL 61704
309-531-6522
N/A

1.3. If a Division or Subsidiary of another organization provide the name and address of the parent
N/A

1.4. Billing Address
27 Kensington Circle
Bloomington, IL 61704

1.5. Name of Chief Executive Officer
Dave Cheley

1.6. Company Web Site Address
www.raptorsoftwareinc.com

1.7. Type of Organization (sole proprietor, corporation, etc.—should be same as on Taxpayer ID form below)
Corporation

1.8. Length of time in business
7-years, 8-months (Incorporated 10/2008)

1.9. Annual Sales for Offeror’s most recently completed fiscal year
$150,000

1.10. Show number of full-time employees, on average, during the most recent fiscal year
1

1.11. Is your company at least 51% owned and controlled by individuals in one of the following categories? If “Yes,” please check the category that applies:

1.11.1. Minority (30 ILCS 575/2(A)(1) & (3)) □ Yes
1.11.2. Female (30 ILCS 575/2(A)(2) & (4)) □ Yes
1.11.3. Person with Disability (30 ILCS 575/2(A)(2.05) & (2.1)) □ Yes
1.11.4. Disadvantaged (49 CFR 26) □ Yes
1.11.5. Veteran (30 ILCS 500/45-57) □ Yes
STATE OF ILLINOIS

ILLINOIS DEPARTMENT OF HUMAN RIGHTS
PUBLIC CONTRACT NUMBER

2.1. If Offeror employed fifteen or more full-time employees at the time of submission of their response to this solicitation or any time during the previous 365-day period leading up to submission, it must have a current IDHR Public Contract Number or have proof of having submitted a completed application for one prior to the solicitation opening date. 775 ILCS 5/2-101. If the Agency/University cannot confirm compliance, it will not be able to consider a Vendor's bid or offer. Please complete the appropriate sections below:

Name of Company (and DBA): Raptor Software, Inc.

☐ (check if applicable) The number is not required as the company has not met or exceeded the number of employees that makes registration necessary under the requirements of the Human Rights Act described above.

IDHR Public Contracts Number: N/A  Expiration Date: N/A.

2.2. If number has not yet been issued, provide the date a completed application for the number was submitted to IDHR: N/A.

2.3. Upon expiration and until their Contractor Identification Number is renewed, companies will not be eligible to be awarded contracts by the State of Illinois or other jurisdictions that require a current IDHR number as a condition of contract eligibility. 44 ILL. ADM. CODE 750.210(a).

2.4. Numbers issued by the Department of Human Rights (or its predecessor agency, the Illinois Fair Employment Practices Commission) prior to July 1, 1998 are no longer valid. This affects numbers below 89999-00-0. Valid numbers begin with 900000-00-0.

2.5. If Offeror's organization holds an expired number, it must re-register with the Department of Human Rights.

2.6. Offeror may obtain an application form by:

2.6.1. Telephone: Call the IDHR Public Contracts Unit at (312) 814-2431 between Monday and Friday, 8:30 AM - 5:00 PM, CST. (TDD (312) 263-1579).

2.6.2. Internet: You may download the form from the Department of Human Rights' website at (http://www2.illinois.gov/dhr/PublicContracts/Pages/default.aspx).

2.6.3. Mail: Write to the Department of Human Rights, Public Contracts Unit, 100 West Randolph Street, Suite 10-100, Chicago, IL 60601.
3. A person, other than an individual acting as a sole proprietor, must be a duly constituted legal entity and authorized to transact business or conduct affairs in Illinois prior to submitting an offer. 30 ILCS 500/20-43. Offerors must review and complete certification #4.32 in the Standard Certifications found in Forms A, Part 4.

Certification #4.32 requires Vendor to check one of two boxes representing its status. The State may request evidence from a vendor that certifies it is authorized to do business in Illinois proving such authorization. Failure to produce evidence in a timely manner may be considered grounds for determining Vendor non-responsive or not responsible.

For information on registering to transact business or conduct affairs in Illinois, please visit the Illinois Secretary of State’s Department of Business Services at their website at (http://cyberdriveillinois.com/departments/business_services/home.html) or your home county clerk.

EVIDENCE OF BEING AUTHORIZED TO TRANSACT BUSINESS OR CONDUCT AFFAIRS IS THE SECRETARY OF STATE’S CERTIFICATE OF GOOD STANDING

State of Illinois Chief Procurement Office General Services
IFB or RFP Solicitation: Forms A: Authorized to Transact Business or Conduct Affairs in Illinois
V.15.2a
STATE OF ILLINOIS
STANDARD CERTIFICATIONS
Raptor Software Inc.

Vendor acknowledges and agrees that compliance with this subsection in its entirety for the term of the contract and any renewals is a material requirement and condition of this contract. By executing this contract Vendor certifies compliance with this subsection in its entirety, and is under a continuing obligation to remain in compliance and report any non-compliance.

This subsection, in its entirety, applies to subcontractors used on this contract. Vendor shall include these Standard Certifications in any subcontract used in the performance of the contract using the Standard Certification form provided by the State.

If this contract extends over multiple fiscal years, including the initial term and all renewals, Vendor and its subcontractors shall confirm compliance with this section in the manner and format determined by the State by the date specified by the State and in no event later than July 1 of each year that this contract remains in effect.

If the Parties determine that any certification in this section is not applicable to this contract it may be stricken without affecting the remaining subsections.

4.1. As part of each certification, Vendor acknowledges and agrees that should Vendor or its subcontractors provide false information, or fail to be or remain in compliance with the Standard Certification requirements, one or more of the following sanctions will apply:

- the contract may be void by operation of law,
- the State may void the contract, and
- the Vendor and it subcontractors may be subject to one or more of the following: suspension, debarment, denial of payment, civil fine, or criminal penalty.

Identifying a sanction or failing to identify a sanction in relation to any of the specific certifications does not waive imposition of other sanctions or preclude application of sanctions not specifically identified.

4.2. Vendor certifies it and its employees will comply with applicable provisions of the United States Civil Rights Act, Section 504 of the Federal Rehabilitation Act, the Americans with Disabilities Act, and applicable rules in performance of this contract.

4.3. Vendor, if an individual, sole proprietor, partner or an individual as member of a LLC, certifies he/she is not in default on an educational loan. 5 ILCS 385/3.

4.4. Vendor, if an individual, sole proprietor, partner or an individual as member of a LLC, certifies he/she has not received (i) an early retirement incentive prior to 1993 under Section 14-108.3 or 16-133.3 of the Illinois Pension Code or (ii) an early retirement incentive on or after 2002 under Section 14-108.3 or 16-133.3 of the Illinois Pension Code. 30 ILCS 105/15a; 40 ILCS 5/14-108.3; 40 ILCS 5/16-133.

4.5. Vendor certifies that it is a legal entity authorized to do business in Illinois prior to submission of a bid, offer, or proposal. 30 ILCS 500/1-15.80, 20-43.
4.6. To the extent there was a current Vendor providing the services covered by this contract and the employees of that Vendor who provided those services are covered by a collective bargaining agreement, Vendor certifies (i) that it will offer to assume the collective bargaining obligations of the prior employer, including any existing collective bargaining agreement with the bargaining representative of any existing collective bargaining unit or units performing substantially similar work to the services covered by the contract subject to its bid or offer; and (ii) that it shall offer employment to all employees currently employed in any existing bargaining unit who perform substantially similar work to the work that will be performed pursuant to this contract. This does not apply to heating, air conditioning, plumbing and electrical service contracts. 30 ILCS 500/25-80.

4.7. Vendor certifies it has neither been convicted of bribing or attempting to bribe an officer or employee of the State of Illinois or any other State, nor made an admission of guilt of such conduct that is a matter of record. 30 ILCS 500/50-5.

4.8. If Vendor has been convicted of a felony, Vendor certifies at least five years have passed after the date of completion of the sentence for such felony, unless no person held responsible by a prosecutor’s office for the facts upon which the conviction was based continues to have any involvement with the business. 30 ILCS 500/50-10.

4.9. If Vendor or any officer, director, partner, or other managerial agent of Vendor has been convicted of a felony under the Sarbanes-Oxley Act of 2002, or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953, Vendor certifies at least five years have passed since the date of the conviction. Vendor further certifies that it is not barred from being awarded a contract and acknowledges that the State shall declare the contract void if this certification is false. 30 ILCS 500/50-10.5.

4.10. Vendor certifies it is not barred from having a contract with the State based upon violating the prohibitions related to either submitting/writing specifications or providing assistance to an employee of the State of Illinois by reviewing, drafting, directing, or preparing any invitation for bids, a request for proposal, or request of information, or similar assistance (except as part of a public request for such information). 30 ILCS 500/50-10.5(e), amended by Pub. Act No. 97-0895 (August 3, 2012).

4.11. Vendor certifies that it and its affiliates are not delinquent in the payment of any debt to the State (or if delinquent has entered into a deferred payment plan to pay the debt), and Vendor and its affiliates acknowledge the State may declare the contract void if this certification is false or if Vendor or an affiliate later becomes delinquent and has not entered into a deferred payment plan to pay off the debt. 30 ILCS 500/50-11, 50-60.

4.12. Vendor certifies that it and all affiliates shall collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with provisions of the Illinois Use Tax Act and acknowledges that failure to comply may result in the contract being declared void. 30 ILCS 500/50-12.

4.13. Vendor certifies that it has not been found by a court or the Pollution Control Board to have committed a willful or knowing violation of the Environmental Protection Act within the last five years, and is therefore not barred from being awarded a contract. 30 ILCS 500/50-14.
4.14. Vendor certifies it has neither paid any money or valuable thing to induce any person to refrain from bidding on a State contract, nor accepted any money or other valuable thing, or acted upon the promise of same, for not bidding on a State contract. 30 ILCS 500/50-25.


4.16. Vendor certifies that it has not retained a person or entity to attempt to influence the outcome of a procurement decision for compensation contingent in whole or in part upon the decision or procurement. 30 ILCS 500/50-38.

4.17. Vendor certifies that if it has hired a person required to register under the Lobbyist Registration Act to assist in obtaining any State contract, that none of the lobbyist’s costs, fees, compensation, reimbursements, or other remuneration were billed to the State. 30 ILCS 500/50-38.

4.18. Vendor certifies it will report to the Illinois Attorney General and the Chief Procurement Officer any suspected collusion or other anti-competitive practice among any bidders, offerors, contractors, proposers, or employees of the State. 30 ILCS 500/50-40, 50-45, 50-50.

4.19. Vendor certifies steel products used or supplied in the performance of a contract for public works shall be manufactured or produced in the United States, unless the executive head of the procuring Agency/University grants an exception. 30 ILCS 565.

4.20. Drug Free Workplace

4.20.1. If Vendor employs 25 or more employees and this contract is worth more than $5,000, Vendor certifies it will provide a drug free workplace pursuant to the Drug Free Workplace Act.

4.20.2. If Vendor is an individual and this contract is worth more than $5000, Vendor certifies it shall not engage in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance during the performance of the contract. 30 ILCS 580.

4.21. Vendor certifies that neither Vendor nor any substantially owned affiliate is participating or shall participate in an international boycott in violation of the U.S. Export Administration Act of 1979 or the applicable regulations of the United States. Department of Commerce. 30 ILCS 582.

4.22. Vendor certifies it has not been convicted of the offense of bid rigging or bid rotating or any similar offense of any state or of the United States. 720 ILCS 5/33 E-3, E-4.

4.23. Vendor certifies it complies with the Illinois Department of Human Rights Act and rules applicable to public contracts, which include providing equal employment opportunity, refraining from unlawful discrimination, and having written sexual harassment policies. 775 ILCS 5/2-105.

4.24. Vendor certifies it does not pay dues to or reimburse or subsidize payments by its employees for any dues or fees to any “discriminatory club.” 775 ILCS 25/2.
4.25. Vendor certifies that no foreign-made equipment, materials, or supplies furnished to the State under the contract have been or will be produced in whole or in part by forced labor or indentured labor under penal sanction. 30 ILCS 583.

4.26. Vendor certifies that no foreign-made equipment, materials, or supplies furnished to the State under the contract have been produced in whole or in part by the labor of any child under the age of 12. 30 ILCS 584.

4.27. Vendor certifies that any violation of the Lead Poisoning Prevention Act, as it applies to owners of residential buildings, has been mitigated. 410 ILCS 45.

4.28. Vendor warrants and certifies that it and, to the best of its knowledge, its subcontractors have and will comply with Executive Order No. 1 (2007). The Order generally prohibits Vendors and subcontractors from hiring the then-serving Governor’s family members to lobby procurement activities of the State, or any other unit of government in Illinois including local governments if that procurement may result in a contract valued at over $25,000. This prohibition also applies to hiring for that same purpose any former State employee who had procurement authority at any time during the one-year period preceding the procurement lobbying activity.

4.29. Vendor certifies that information technology, including electronic information, software, systems and equipment, developed or provided under this contract comply with the applicable requirements of the Illinois Information Technology Accessibility Act Standards as published at (www.dhs.state.il.us/iiata) 30 ILCS 587.

4.30. Vendor certifies that it has read, understands, and is in compliance with the registration requirements of the Elections Code (10 ILCS 5/9-35) and the restrictions on making political contributions and related requirements of the Illinois Procurement Code. 30 ILCS 500/20-160 and 50-37. Vendor will not make a political contribution that will violate these requirements.

In accordance with section 20-160 of the Illinois Procurement Code, Vendor certifies as applicable:

- Vendor is not required to register as a business entity with the State Board of Elections.

or

- Vendor has registered with the State Board of Elections. As a registered business entity, Vendor acknowledges a continuing duty to update the registration as required by the Act.

4.31. Vendor certifies that if it is awarded a contract through the use of the preference required by the Procurement of Domestic Products Act, then it shall provide products pursuant to the contract or a subcontract that are manufactured in the United States. 30 ILCS 517.

4.32. A person (other than an individual acting as a sole proprietor) must be a duly constituted legal entity and authorized to transact business or conduct affairs in Illinois prior to submitting a bid or offer. 30 ILCS 500/20-43. If you do not meet these criteria, then your bid or offer will be disqualified.

Vendor must make one of the following two certifications by checking the appropriate box.
STATE OF ILLINOIS
STANDARD CERTIFICATIONS
Raptor Software Inc.

A. □ Vendor certifies it is an individual acting as a sole proprietor and is therefore not subject to the requirements of section 20-43 of the Procurement Code.

B. ☒ Vendor certifies that it is a legal entity, and was authorized to transact business or conduct affairs in Illinois as of the date for submitting this bid or offer. The State may require Vendor to provide evidence of compliance before award.

4.33. Vendor certifies that, for the duration of this contract it will:

- post its employment vacancies in Illinois and border states on the Department of Employment Security’s IllinoisJobLink.com website or its successor system; or
- will provide an online link to these employment vacancies so that this link is accessible through the IllinoisJobLink.com website or its successor system; or
- is exempt from 20 ILCS 1005/1005-47 because the contract is for construction-related services as that term is defined in section 1-15.20 of the Procurement Code; or the contract is for construction and vendor is a party to a contract with a bona fide labor organization and performs construction. (20 ILCS 1005/1005-47).

Name of Disclosing Entity: Raptor Software, Inc.

Signature: 7(1)(b) Date: 6/1/2016

Printed Name: David Cheley
Title: President
Phone Number: 309-531-6522
Email Address: dave@raptorsoftwareinc.com
5. Section 50-37 of the Illinois Procurement Code prohibits political contributions of certain vendors, bidders and offerors. Additionally, section 9-35 of the Illinois Election Code governs provisions relating to reporting and making contributions to state officeholders, declared candidates for State offices and covered political organizations that promote the candidacy of an officeholder or declared candidate for office. The State may declare any resultant contract void if these Acts are violated.

Generally, if a vendor, bidder, or offeror is an entity doing business for profit (i.e. sole proprietorship, partnership, corporation, limited liability company or partnership, or otherwise) and has contracts with State agencies that annually total more than $50,000 or whose aggregate pending bids or proposals and current State contracts that total more than $50,000, the vendor, bidder, or offeror is prohibited from making political contributions and must register with the State Board of Elections. 30 ILCS 500/20-160.

EVIDENCE OF REGISTRATION WITH THE STATE BOARD OF ELECTIONS
IS THE CERTIFICATE OF REGISTRATION

Certificate of Registration

Registration No. 138

ABC Corporation
123 Main Street
Anywhere, IL 62017

Information for this business last updated on:
Wednesday, October 13, 2018
6. In accordance with 30 ILCS 500/50-36, each bid, offer, or proposal submitted for a State contract, other than a small purchase defined in Section 20-20 of the Illinois Procurement Code, will include a disclosure of whether or not the bidder, offeror, or proposing entity, or any of its corporate parents or subsidiaries, within the 24 months before submission of the bid, offer, or proposal had business operations that involved contracts with or provision of supplies or services to the Government of Iran, companies in which the Government of Iran has any direct or indirect equity share, consortiums or projects commissioned by the Government of Iran and:

- more than 10% of the company’s revenues produced in or assets located in Iran involve oil-related activities or mineral-extraction activities; less than 75% of the company’s revenues produced in or assets located in Iran involve contracts with or provision of oil-related or mineral — extraction-products or services to the Government of Iran or a project or consortium created exclusively by that Government; and the company has failed to take substantial action; or

- the company has, on or after August 5, 1996, made an investment of $20 million or more, or any combination of investments of at least $10 million each that in the aggregate equals or exceeds $20 million in any 12-month period that directly or significantly contributes to the enhancement of Iran’s ability to develop petroleum resources of Iran.

A bid or offer that does not include this disclosure may be given a period after the bid or offer is submitted to cure non-disclosure. A chief procurement officer may consider the disclosure when evaluating the bid or offer or awarding the contract.

☒ There are no business operations that must be disclosed to comply with the above cited law.

☐ The following business operations are disclosed to comply with the above cited law:

N/A
The Financial Disclosures and Conflicts of Interest form ("form") must be accurately completed and submitted by the vendor, parent entity(ies), and subcontractors. There are nine steps to this form and each must be completed as instructed in the step heading and within the step. A bid or offer that does not include this form shall be considered non-responsive. The Agency/University will consider this form when evaluating the bid or offer or awarding the contract.

The requirement of disclosure of financial interests and conflicts of interest is a continuing obligation. If circumstances change and the disclosure is no longer accurate, then disclosing entities must provide an updated form.

Separate forms are required for the vendor, parent entity(ies), and subcontractors.

This disclosure is submitted for:

- □ Vendor
- □ Vendor's Parent Entity(ies) (100% ownership)
- ☑ Subcontractor(s) >$50,000 (annual value)
- □ Subcontractor's Parent Entity(ies) (100% ownership) > $50,000 (annual value)

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Geographic Information System (GIS) Service Oriented Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois Procurement Bulletin Number</td>
<td>22037966</td>
</tr>
<tr>
<td>Contract Number</td>
<td>N/A</td>
</tr>
<tr>
<td>Vendor Name</td>
<td>GIS Solutions, Inc.</td>
</tr>
<tr>
<td>Doing Business As (DBA)</td>
<td>GIS Solutions, Inc.</td>
</tr>
<tr>
<td>Disclosing Entity</td>
<td>Raptor Software, Inc.</td>
</tr>
<tr>
<td>Disclosing Entity's Parent Entity</td>
<td>None</td>
</tr>
<tr>
<td>Subcontractor</td>
<td>None</td>
</tr>
<tr>
<td>Instrument of Ownership or Beneficial Interest</td>
<td>Corporate Stock (C-Corporation, S-Corporation, Professional Corporation, Service Corporation) ☑ If you selected Other, please describe: N/A</td>
</tr>
</tbody>
</table>
FINANCIAL DISCLOSURES AND CONFLICTS OF INTERESTS

STEP 1
SUPPORTING DOCUMENTATION SUBMITTAL
(All vendors complete regardless of annual bid, offer, or contract value)
(Subcontractors with subcontract annual value of more than $50,000 must complete)

You must select one of the six options below and select the documentation you are submitting. You must provide the documentation that the applicable section requires with this form.

☐ Option 1 – Publicly Traded Entities
  1.A. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% ($106,447.20) of the annual salary of the Governor.

  OR

  1.B. ☐ Attach a copy of the Federal 10-K or provide a web address of an electronic copy of the Federal 10-K, and skip to Step 3.

☐ Option 2 – Privately Held Entities with more than 100 Shareholders
  2.A. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% ($106,447.20) of the annual salary of the Governor.

  OR

  2.B. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership share in excess of 5% and attach the information Federal 10-K reporting companies are required to report under 17 CFR 229.401.

☒ Option 3 – All other Privately Held Entities, not including Sole Proprietorships
  3.A. ☒ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% ($106,447.20) of the annual salary of the Governor.

☐ Option 4 – Foreign Entities
  4.A. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% ($106,447.20) of the annual salary of the Governor.

  OR

  4.B. ☐ Attach a copy of the Securities Exchange Commission Form 20-F or 40-F and skip to Step 3.

☐ Option 5 – Not-for-Profit Entities
  ☐ Complete Step 2, Option B.

☐ Option 6 – Sole Proprietorships
  ☐ Skip to Step 3.
Complete either Option A (for all entities other than not-for-profits) or Option B (for not-for-profits). Additional rows may be inserted into the tables or an attachment may be provided if needed.

**OPTION A – Ownership Share and Distributive Income**

Ownership Share – If you selected Option 1.A., 2.A., 2.B., 3.A., or 4.A. in Step 1, provide the name and address of each individual or entity and their percentage of ownership if said percentage exceeds 5%, or the dollar value of their ownership if said dollar value exceeds $106,447.20.

☐ Check here if including an attachment with requested information in a format substantially similar to the format below.

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Percentage of Ownership</th>
<th>$ Value of Ownership</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Cheley</td>
<td>27 Kensington Cir, Bloomington, IL 61704</td>
<td>100%</td>
<td>$1</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Distributive Income – If you selected Option 1.A., 2.A., 3.A., or 4.A. in Step 1, provide the name and address of each individual or entity and their percentage of the disclosing vendor's total distributive income if said percentage exceeds 5% of the total distributive income of the disclosing entity, or the dollar value of their distributive income if said dollar value exceeds $106,447.20.

☐ Check here if including an attachment with requested information in a format substantially similar to the format below.

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>% of Distributive Income</th>
<th>$ Value of Distributive Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Cheley</td>
<td>27 Kensington Cir, Bloomington, IL 61704</td>
<td>100%</td>
<td>$140,000</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
FINANCIAL DISCLOSURES AND CONFLICTS OF INTERESTS

Please certify that the following statements are true.

I have disclosed all individuals or entities that hold an ownership interest of greater than 5% or greater than $106,447.20.

☐ Yes ☐ No

I have disclosed all individuals or entities that were entitled to receive distributive income in an amount greater than $106,447.20 or greater than 5% of the total distributive income of the disclosing entity.

☐ Yes ☐ No

OPTION B – Disclosure of Board of Directors (Not-for-Profits)

If you selected Option 5 in Step 1, list members of your board of directors. Please include an attachment if necessary.

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

STEP 3
DISCLOSURE OF LOBBYIST OR AGENT

(Complete only if bid, offer, or contract has an annual value over $50,000)
(Subcontractors with subcontract annual value of more than $50,000 must complete)

☐ Yes ☐ No. Is your company represented by or do you employ a lobbyist required to register under the Lobbyist Registration Act (lobbyist must be registered pursuant to the Act with the Secretary of State) or other agent who is not identified through Step 2, Option A above and who has communicated, is communicating, or may communicate with any State/Public University officer or employee concerning the bid or offer? If yes, please identify each lobbyist and agent, including the name and address below.

If you have a lobbyist that does not meet the criteria, then you do not have to disclose the lobbyist’s information.

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Relationship to Disclosing Entity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Describe all costs/fees/compensation/reimbursements related to the assistance provided by each representative lobbyist or other agent to obtain this Agency/University contract: N/A
FINANCIAL DISCLOSURES AND CONFLICTS OF INTERESTS

STEP 4
PROHIBITED CONFLICTS OF INTEREST
(All vendors must complete regardless of annual bid, offer, or contract value)
(Subcontractors with subcontract annual value of more than $50,000 must complete)

Step 4 must be completed for each person disclosed in Step 2, Option A and for sole proprietors identified in Step 1, Option 6 above. Please provide the name of the person for which responses are provided: David Cheley

1. Do you hold or are you the spouse or minor child who holds an elective office in the State of Illinois or hold a seat in the General Assembly? □ Yes ☒ No

2. Have you, your spouse, or minor child been appointed to or employed in any offices or agencies of State government and receive compensation for such employment in excess of 60% ($106,447.20) of the salary of the Governor? □ Yes ☒ No

3. Are you or are you the spouse or minor child of an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority? □ Yes ☒ No

4. Have you, your spouse, or an immediate family member who lives in your residence currently or who lived in your residence within the last 12 months been appointed as a member of a board, commission, authority, or task force authorized or created by State law or by executive order of the Governor? □ Yes ☒ No

5. If you answered yes to any question in 1-4 above, please answer the following: Do you, your spouse, or minor child receive from the vendor more than 7.5% of the vendor’s total distributable income or an amount of distributable income in excess of the salary of the Governor ($177,412.00)? □ Yes ☒ No

6. If you answered yes to any question in 1-4 above, please answer the following: Is there a combined interest of self with spouse or minor child more than 15% in the aggregate of the vendor’s distributable income or an amount of distributable income in excess of two times the salary of the Governor ($354,824.00)? □ Yes ☒ No

STEP 5
POTENTIAL CONFLICTS OF INTEREST RELATING TO PERSONAL RELATIONSHIPS
(Complete only if bid, offer, or contract has an annual value over $50,000)
(Subcontractors with subcontract annual value of more than $50,000 must complete)

Step 5 must be completed for each person disclosed in Step 2, Option A and for sole proprietors identified in Step 1, Option 6 above.

Please provide the name of the person for which responses are provided: David Cheley

1. Do you currently have, or in the previous 3 years have you had State employment, including contractual employment of services? □ Yes ☒ No

2. Has your spouse, father, mother, son, or daughter, had State employment, including contractual employment for services, in the previous 2 years? □ Yes ☒ No
3. Do you hold currently or have you held in the previous 3 years elective office of the State of Illinois, the government of the United States, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois? □ Yes □ No

4. Do you have a relationship to anyone (spouse, father, mother, son, or daughter) holding elective office currently or in the previous 2 years? □ Yes □ No

5. Do you hold or have you held in the previous 3 years any appointive government office of the State of Illinois, the United States of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of expenses incurred in the discharge of that office? □ Yes □ No

6. Do you have a relationship to anyone (spouse, father, mother, son, or daughter) holding appointive office currently or in the previous 2 years? □ Yes □ No

7. Do you currently have or in the previous 3 years had employment as or by any registered lobbyist of the State government? □ Yes □ No

8. Do you currently have or in the previous 2 years had a relationship to anyone (spouse, father, mother, son, or daughter) that is or was a registered lobbyist? □ Yes □ No

9. Do you currently have or in the previous 3 years had compensated employment by any registered election or re-election committee registered with the Secretary of State or any county clerk in the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections? □ Yes □ No

10. Do you currently have or in the previous 2 years had a relationship to anyone (spouse, father, mother, son, or daughter) who is or was a compensated employee of any registered election or re-election committee registered with the Secretary of State or any county clerk in the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections? □ Yes □ No

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**STEP 6**

**EXPLANATION OF AFFIRMATIVE RESPONSES**

(All vendors must complete regardless of annual bid, offer, or contract value)  
(Subcontractors with subcontract annual value of more than $50,000 must complete)

If you answered "Yes" in Step 4 or Step 5, please provide on an additional page a detailed explanation that includes, but is not limited to the name, salary, State agency or university, and position title of each individual.
FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

STEP 7
POTENTIAL CONFLICTS OF INTEREST
RELATING TO DEBARMENT & LEGAL PROCEEDINGS
(Complete only if bid, offer, or contract has an annual value over $50,000)
(Subcontractors with subcontract annual value of more than $50,000 must complete)

This step must be completed for each person disclosed in Step 2, Option A, Step 3, and for each entity and sole proprietor disclosed in Step 1.

Please provide the name of the person or entity for which responses are provided: David Cheley

1. Within the previous ten years, have you had debarment from contracting with any governmental entity?
   □ Yes □ No

2. Within the previous ten years, have you had any professional licensure discipline?
   □ Yes □ No

3. Within the previous ten years, have you had any bankruptcies?
   □ Yes □ No

4. Within the previous ten years, have you had any adverse civil judgments and administrative findings?
   □ Yes □ No

5. Within the previous ten years, have you had any criminal felony convictions?
   □ Yes □ No

If you answered "Yes", please provide a detailed explanation that includes, but is not limited to the name, State agency or university, and position title of each individual. N/A

STEP 8
DISCLOSURE OF CURRENT AND PENDING CONTRACTS
(Complete only if bid, offer, or contract has an annual value over $50,000)
(Subcontractors with subcontract annual value of more than $50,000 must complete)

If you selected Option 1, 2, 3, 4, or 6 in Step 1, do you have any contracts, pending contracts, bids, proposals, subcontracts, leases or other ongoing procurement relationships with units of State of Illinois government?
   □ Yes □ No.

If "Yes", please specify below. Additional rows may be inserted into the table or an attachment may be provided if needed.

<table>
<thead>
<tr>
<th>Agency/University</th>
<th>Project Title</th>
<th>Status</th>
<th>Value</th>
<th>Contract Reference/P.O./Illinois Procurement Bulletin #</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

State of Illinois Chief Procurement Office General Services

H始 or RFP Solicitation: Forms A: Financial Disclosures and Conflicts of Interest

V 15.2a
Please explain the procurement relationship: N/A

This disclosure is signed, and made under penalty of perjury for all for-profit entities, by an authorized officer or employee on behalf of the bidder or offeror pursuant to Sections 50-13 and 50-35 of the Illinois Procurement Code. This disclosure information is submitted on behalf of:

Name of Disclosing Entity: Raptor Software, Inc.

Signature: 7(1)(b)  Date: 6/1/2016

Printed Name: David Cheley

Title: President

Phone Number: 309-531-6522

Email Address: dave@raptorsoftwareinc.com
I certify that:
The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
I am a U.S. person (including a U.S. resident alien).

- If you are an individual, enter your name and SSN as it appears on your Social Security Card.
- If you are a sole proprietor, enter the owner’s name on the name line followed by the name of the business and the owner’s SSN or EIN.
- If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner’s name on the name line and the D/B/A on the business name line and enter the owner’s SSN or EIN.
- If the LLC is a corporation or partnership, enter the entity’s business name and EIN and for corporations, attach IRS acceptance letter (CP261 or CP277).
- For all other entities, enter the name of the entity as used to apply for the entity’s EIN and the EIN.

Name: N/A
Business Name: Raptor Software, Inc.
Taxpayer Identification Number:

- Social Security Number: N/A
- Employer Identification Number: 7(1)(b)

Legal Status (check one):

- [ ] Individual
- [ ] Sole Proprietor
- [ ] Partnership
- [ ] Legal Services Corporation
- [ ] Tax-exempt
- [ ] Corporation providing or billing medical and/or health care services
- [x] Corporation NOT providing or billing medical and/or health care services

(scale applicable tax classification)

- [ ] C = corporation
- [ ] P = partnership

Signature of Authorized Representative:

Date: June 1, 2016
8:24:59 Thursday, August 18, 2016

OCIS CICIO CPI
OFFSET CONTRACT INQUIRY

ACTION: S

VENDOR NUMBER: 7(1)(b)
VENDOR NAME: *
CLAIMING AGENCY NUMBER: *
CLAIMING AGENCY NAME: *
CLAIMING AGENCY PHONE NUMBER: *

OFFSET: 00 OF 00

DISCLAIMER:
AS OF 08/18/16 AT 08:24 OUR INVOLUNTARY WITHHOLDING SYSTEM DOES NOT HAVE AN
ACTIVE CLAIM AGAINST VENDOR NUMBER ******6062. PLEASE BE ADVISED THAT OUR
SYSTEM ONLY CONTAINS CLAIMS FILED BY STATE AGENCIES PURSUANT TO 15 ILCS 405/
10.05. A VENDOR MAY BE DELINQUENT IN A DEBT TO THE STATE OF ILLINOIS, BUT THE
DEBT MAY NOT BE RECORDED ON OUR INVOLUNTARY WITHHOLDING SYSTEM.

ENTER=PROCESS, PF3=IOCM, PF12=REFRESH