Request for Statement of Interest (SOI)
Geographic Information Systems

The Kane County Division of Transportation is in need of Professional Services from a qualified Geographic Information Systems firm to provide; Support, Maintenance and application development service per the attached Preliminary Scope of Work.

The attached *Project Description/Preliminary Scope of Services* provides anticipated items that are necessary as part of the services ring Services. The scope of services and contract for the potential Phase II Engineering Services would be negotiated at the completion of Phase I.

The County anticipates initiating this work in December 2014 with contract duration of approximately 1 year with an option to renew / extend the contract for an additional year.

A Statement of Interest shall be submitted **VIA KDOTQBS** no later than **4:00 P.M.** on **August 4th 2014,** and should be addressed to **Kurt Lebo, IT / GIS Manager of the Kane County Division of Transportation. The SOI shall be submitted in PDF format viewable with the latest version of Adobe reader**.

Statements of Interest received will be used by County staff to develop a short-list of three (3) firms. The County will then submit a Request for Proposal (RFP) and schedule interviews with the short-listed firms. On site interviews are not required.

For more information regarding the SOI, such as content and format of these items, please reference the QBS document found at http://www.co.kane.il.us/dot/consultant/selectionProcess.pdf .

If the respondent plans to utilize a sub-consultant for any portion of this work please note this on the submitted Statement of Interest.

Short-listed firms will be posted at www.co.kane.il.us/dot. Click on the link labeled “Consultant Selection”, then click on the link labeled “Consultant Selection Summary Table”.

A Statement of Interest (SOI) received after the above noted deadline will not be considered.

2014/2015 GIS professional Services Scope

1. **Migration to new platform -KDOT distance Calculator**

    a. **History -** This web based tool was developed in house for the purpose of creating an easy, uniform and consistent means of calculating distances on County routes. The name of the application was based on the initial intent of the tool (calculating distance). The user can use the interactive map shown below to accomplish this. With 3 clicks of the mouse distance measures are returned. During the second development phase the tool was enhanced to return key data sets along the selected route. Key data sets returned are; Average Daily Traffic Counts, Township Jurisdictions and Traffic Advisories.

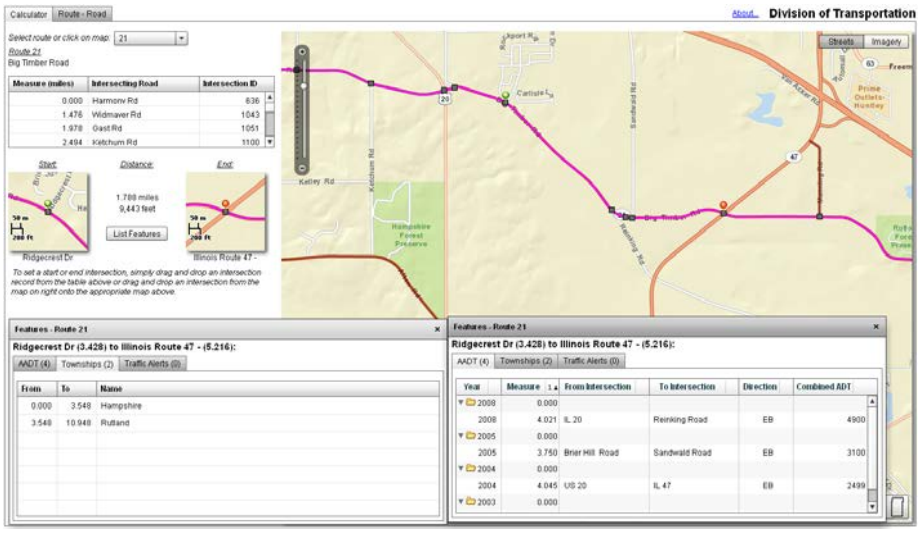

Figure 1

    b. **Proposed enhancements**

        i. The current application platform uses the Adobe Flash Builder 4.x and ESRI Flex API. A new modular internal data viewer has been built using windows.net and the ESRI JavaScript API. All functions will be incorporated into the new application. Includes basic search and query options and use of SSRS.

2. **Enhancement of KDOT Permitting Viewer**
    a. The KDOT permitting viewer application uses the ESRI JavaScript API. The application uses some specialty GIS Server Extensions (ESRI Highways and Streets)
    b. Migrate all functionality of the KDOT Distance Calculator (see item 1 above)
    c. Migrate all functions of the KDOT ROW Viewer
        i. This is a data viewer built on the same technology as the KDOT Distance Calculator defined in Item 1.
    d. Inclusion of live INRIX traffic data
    e. Inclusion or Weather data from the Weather Underground
    f. Develop Dynamic Crash Analysis tools such as
        i. Hot spot analysis based on search criteria.
        ii. Intersection ratings based on traffic and reported accident volumes.
        iii. Graphical charts for each intersections displaying predetermined fields.
        iv. Reporting via SSRS based on search and filtering queries.
        v. Time aware visualization.

3. **ESRI Roads and Highways Extension**
    a. Support for proper means and method of data collection and population of the ESRI Roads and Highways data model.

4. **Utility database Development**
        i. History – Currently there is one staff member from the permitting department that enters utility locations including gas, electric, water , sewer , cable / fiber. The data is all stored in GIS Format. There is now a desire to allow multiple permitting staff to edit to share live edits with non- permitting staff.
        ii. Proposed changes
            1. Develop and enterprise data base and or adopt ESRI utility model.
            2. Develop training manual for field data collection of utility data. Field data collection will be collected for Android and or IOS device. Method of data collection is outside this scope.
        iii. Review existing data and reorganize – populate new database.

5. Develop field data collection and deployment procedures for utilizing ArcGIS online / Data Collector for field data operations.

6. **Technical Support**
    a. Includes software vendor initiated staff needs such as updates and compatibility testing.
    b. ArcGIS Online
    c. SQL server / Database
    d. General troubleshooting

Contact Information

Any questions regarding the specific project should be directed to Kurt D. Lebo at 630-208-3137 or LeboKurt@co.kane.il.us. Any question regarding the QBS or Consulting Selection Process should be directed to Steve Coffinbargar 630-584-1170 or via email at CoffinbargarSteve@co.kane.il.us