

Request for Proposal

For Hydrographic Survey Mapping Services Kankakee County, Illinois

Issued on January 6, 2023

Proposals must be delivered to:

Kankakee County GIS
189 E Court Street; Suite 202
Kankakee, Illinois 60901

Intent to respond is due no later than January 20, 2023, 3:30 P.M. CST.

Questions regarding the RFP should be directed to:

Email: golson@k3county.net

Project Description

Kankakee County GIS is requesting proposals for digital hydrographic/bathymetric depth and contour mapping of the Kankakee River and Iroquois River in Kankakee County, Illinois.

The provision of these specifications is not a guarantee that a project will take place.

All data, data deliverables, and documentation generated by this project will become the property of Kankakee County GIS and will be made available to the public by Kankakee County GIS according to their policies. The contractor shall not have a copyright, exclusive license, or right to distribute or sell any of the deliverables.

If the project is not delivered in a timely fashion, Kankakee County may retain up to 10% payment for the work completed as project retainage. This retainage shall be released with the project final payment.

Project Timetable

If approved, the survey will take place in the spring of 2023, or as close as practicable, with final delivery of digital GIS datafiles and related deliverable items within 3 months of the survey.

Selection Schedule

The selection schedule is anticipated to be as follows:

January 6, 2023	RFP Released
January 20, 2023	Intent to Respond Form and Questions Due
January 27, 2023	Questions and Responses Circulated
February 10, 2023	Proposal Submissions Deadline
February 13 - 24, 2023	Interviews
February 27, 2023 – March 10, 2023	Vendor Negotiation and Selection
April 12 – 14, 2023	Contract Signing

Funds

Project funds for this project are authorized by the County of Kankakee. Funds will be available to pay for the work authorized by County of Kankakee, base on a selected proposal that meets the requirements of this RFP. While not committing funds in advance, Kankakee County GIS requests respondents provide a firm quote for each option provided to Kankakee County GIS as a result of this process.

Geographic Area

The project area will include the main course of the Kankakee River and the Iroquois River within Kankakee County plus a one-half mile (0.5 mile) distance beyond the county boundary. The project area is illustrated in the map on page 13.

Linear Referencing and Datum

All ratios and dimensions assume U.S. survey feet. No scale ratios of dimensions in these specifications are metric. All digital products will be delivered in the Illinois State Plane East Zone Projection using the NAD 1983 (2011) horizontal datum in feet. All vertical measurements will be referenced in to the NAVD 1988 datum.

Echosounder

The survey requires the use of echosounder equipment capable of capturing water depths and the possibility of unconsolidated sediment depths, including sand. Responses must identify the manufacturer, model number(s) and frequency information for the equipment to be used for the depth soundings. The accuracy of depth soundings should meet or exceed 0.3 feet with 0.8 feet standard deviation at 95%.

Positional Accuracy

The horizontal and vertical accuracy of depth sounding locations should have a high level of accuracy to be obtained using GPS.

Shadows

To avoid data shadows, particularly from multi-beam echosounders, multiple depth soundings may need to be taken and multiple survey points may need to be collected.

Ground Control

The vendor will employ GPS in a manner to meet or exceed the specifications in the positional accuracy section. Kankakee County GIS can provide ground control survey point data. The successful vendor will determine the number of ground control points needed to meet accuracy standards and approximate locations and will include that information in the proposal. Control points necessary in addition to existing ground control points will be denoted.

All ground surveying work performed for the project will be done by a professional land surveyor licensed by the State of Illinois using survey grade GPS equipment. No permanent monuments will be set by this project. Coordinates of control points will be reported in Illinois State Plane East using NAD 1983 (2011). Elevation values will be reported in the NAVD 1988 datum. The unit of measure will be U.S. survey feet. GPS field surveys for this project will originate from second order or better NGS stations.

Survey Options

Survey Option 1 (Single-Beam Echosounder)

Survey Option 1 includes a single-beam echosounder survey of the project area.

Survey Option 2 (Dual-Frequency Echosounder)

Survey Option 2 includes a survey conducted with a dual frequency echosounder to determine the depth of the river and the depth of sediment.

Survey Option 3 (Multi-Beam Echosounder)

Survey Option 3 includes the use of a multi-beam echosounder to conduct the survey.

Survey Option 4 (Dual-Frequency Multi-Beam Echosounder)

Survey Option 4 includes the use of a dual-frequency multi-beam echosounder to conduct the survey.

Deliverables

Survey Lines

Survey lines following the path of vessels used to collect the depth soundings delivered in ESRI shapefiles.

Triangulation Report

This report shall document the process followed, including major steps and particular considerations influencing the process; provide the error and residuals statistics for the GPS; a map showing the boundaries of the models; the locations of the GPS points used and ground control points (horizontal and vertical) used in the triangulation process. The report will identify the software used in the FDAAT process. The acceptance criteria will be stated and the RMSE values for the x, y, and z coordinates of each ground GPS block and GPS block will be documented. The report will be signed by a certified photogrammetrist and by the vendor project manager.

Echosounder Specifications and Certification Reports

Echosounder specifications, include manufacturer, model, and the characteristics of the sensor will be provided. Certification and calibration should be in accordance with the U.S. Army Corps of Engineers specifications. Any evidence supporting the fact that the sensor is operating within its stated specification should be included.

Contours Data

Contour data from the survey will be delivered in an ESRI ArcGIS shapefile or file geodatabase format referenced to Illinois State Plane East (2011) and NAVD 1988 both measured in U.S. feet. The contour index intervals will be determined based on the depth sounding data collected. If the project includes the collection of sediment depth, the delivered files will be for both the riverbed depth, the depth to the sediment, and the depth of the sediment.

Surface Model Data

Surface models resulting from the survey points collected will be delivered in an ESRI ArcGIS compatible TIN format or a Geo-TIFF raster format (uncompressed or lossless compression). If the project includes the collection of sediment depth, the delivered files will be for the riverbed depth, the depth to the sediment, and the depth of the sediment.

X, Y, Z Files

X, Y Z files of points collected referenced to both the survey datum of your choice (elevation) and to a planned or existing water surface (depth) in ASCII format at a spacing density to be determined. If the project includes the collection of sediment depth, the delivered files will be for the riverbed depth, the depth to the sediment,

CAD files

Surface model and contours resulting from survey points collected in CAD format of Autodesk Civil 3D. These files can be referenced to either a datum (typically NAVD 88) or to a planned water surface (depth).

Survey Metadata

The vendor shall provide metadata compiled to the current standard endorsed by the Federal Geographic Data Committee (FGDC) for each of the data deliverables. Currently, this is the Content Standard for Digital Geospatial Metadata Version 2 (FGDC-STD-001-1998). A separate report listing each tile and its date and time of acquisition is also required.

FGCD compatible metadata is a required deliverable.

Standard Terms and Conditions

RFP Contract Between Partnership and Respondents

After completing and returning **Intent to Respond Form**, Respondents may fax or submit a written request for clarification by Friday January 20, 2023 3:30 P.M. CST to:

Geoff Olson, GIS Coordinator
Kankakee County GIS
189 E Court Street; Suite 202
Kankakee, Illinois 60901

Phone: (815) 936-5487
Fax: (815) 937-2974
Email: golson@k3county.net

Questions and answers will be distributed to all potential respondents that submit the **Intent to Respond Form** by January 27, 2023 3:30 P.M. CST.

Type of Negotiations:

Negotiations may be undertaken with one or more of those Respondents whose proposals, as to price and other factors, show them to be qualified, responsible and capable of performing the work. The contract that may be entered into will be that most advantageous and capable of performing the work specified herein to Kankakee County GIS in terms of price, quality, delivery, and other factors considered. Kankakee County GIS reserves the right to consider proposals or modifications thereof received thru negotiations at any time before award is made, if such action is in the best interest of the county.

Rejection Of Proposals:

Kankakee County GIS reserves the right to reject any and all proposals received as a result of this RFP, or to negotiate separately with any source in a manner necessary to serve the best interests of the county.

Incurring Costs:

Kankakee County GIS is not liable for any cost incurred by contractors prior to execution of a contract.

Final Products:

All final products must be submitted to Kankakee County GIS and will become the property of Kankakee County GIS without restrictions as to use.

Kankakee County GIS reserves the right to modify or alter the specific requirements of each of these products once a successful Respondent has been selected and the successful Respondent and county enter into contract negotiations.

Addenda To The RFP:

In the event it becomes necessary to revise any part of this RFP, addenda will be provided via email or fax to those who have submitted a formal **Intent to Respond**.

Response Date:

To be considered, all issued agenda must be included and hardcopy and digital proposals must arrive on or before 3:30 P.M. CST on February 10, 2023, and be delivered to:

Geoff Olson, GIS Coordinator
Kankakee County GIS
189 E Court Street; Suite 202
Kankakee, Illinois 60901

Proposals:

To be considered, Respondents must submit a complete response to this RFP that must follow the format provided in **Required Content Form Respondent Proposal**. In addition, the Respondent must provide two copies (one physical and one digital) of the complete proposal. No other distribution of proposals will be allowed by the Respondent. Proposals must be signed by an official authorized to bind the Respondent to its provisions. For this RFP, the proposal must remain valid for at least 90 days.

Acceptance Of Proposal Content:

The contents of the proposal of the successful Respondent will become contractual obligations if a contract ensues. Failure of the successful Respondent to accept these obligations will result in disqualification of the respondent. The contents of this RFP become contractual obligations and shall govern over any other differing proposal obligations unless specifically denoted otherwise.

Economy of Preparation:

Proposals should be prepared simply and economically, providing a straightforward, concise description of the Respondent's ability to meet the requirements of the RFP. Emphasis should be on brevity, completeness, and clarity of content. Overly long proposals should be avoided.

Oral Presentation:

Select Respondents who submit a proposal may be required to make an oral presentation of their proposal to the Kankakee County GIS committee as appropriate. If necessary, the county will schedule these presentations before deciding between proposals.

Prime Respondent Responsibilities:

It is the responsibility of the selected Respondent to provide all products offered in the RFP regardless of if they are created by a third party. Further, Kankakee County GIS will consider the selected Respondent to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the contract.

Contract Payment Schedule:

Payment for any contract entered into as a result of this RFP will be negotiated with the successful Respondent.

News Releases:

News releases pertaining to this RFP or the service, study, or project to which it relates will not be made from the Respondent without county approval.

Disclosure of Proposal Contents:

A summary of total price information for all submissions will not be furnished to those Respondents participating in this RFP upon their request. Cost and price information provided in the proposal will be held in confidence and will not be revealed or discussed with competitors. If a proposal contains any information that the Respondent does not want disclosed to the public or used by the Government for any purpose other than evaluation of their offer, each sheet of such information must be marked with the following legend:

“Information on this page is confidential and may be used only for evaluation purposes and may not be disclosed to other respondents.”

Independent Price Determination:

By submission of a proposal, the Respondent certifies, and in the case of a joint proposal each party thereto certifies as to its own organization, that in connection with this proposal:

1. The prices in the proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other Respondent or with any competitor; and
2. Unless otherwise required by law, the prices which have been quoted in the proposal have not been knowingly disclosed by the Respondent and will not knowingly be disclosed by the Respondent prior to award directly or indirectly to any other Respondent or to any competitor; and
3. No attempt has been made or will be made by the Respondent to induce any other person or firm to submit or not to submit a proposal for the purpose of restricting competition.

Each person signing the proposal certifies that:

1. He/She is the person in the Respondent’s organization responsible within that organization for the decision as to the prices being offered in the proposal and that he/she has not participated, and will not participate, in any action contrary to (1), (2) and (3) above: or
2. He/She is not the person in the Respondent’s organization responsible within that organization for the decision as to the prices being offered in the proposal but that he/she has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to (1), (2) and (3) above, and as their agent does hereby so certify; and that he/she has not participated, and will not participate, in any action contrary to (1), (2) and (3) above.

Offeror Liability:

The Respondent will provide and maintain public liability, property damage, and worker’s compensation insurance insuring, as they may appear, the interests of all parties to any agreement that results from this RFP. The Respondent is responsible for ensuring that all precautions are exercised at all times for the protection of all persons and property. The Respondent shall secure all necessary certificates and permits from municipal or other public authorities and comply with all National, State, and Municipal laws, ordinances and regulations as may be required. No work shall be performed outside of the U.S.

Required Content Form Respondent Proposal

Proposals must address each section listed below and be submitted in the format outlined below:

Business Organization:

State the full name and address of your organization and, if applicable, the branch office that will perform or assist in performing the work hereunder. Indicate whether you operate as an individual, partnership, or corporation; if as a corporation, include the state in which you are incorporated. Briefly describe business history, operations, products, organization, key staff involved in this project and their relevant experience.

Technical Approach, Methodology, Time Frame, and Deliverables Provided:

State in succinct terms your understanding of the project presented by this RFP. Include a narrative description as to how the Respondent proposes to do their internal QC/QA work in order to complete the tasks and deliver the required products. List any exceptions taken to this RFP in a separate section.

Prior Experience in Digital Hydrographic/Bathymetric Data Creation:

Proposals submitted should include, in this section, qualifying experience. This section should include project descriptions (including population and size of area), costs, and starting and completion dates of projects successfully completed. Also, the name, address, and phone number of the responsible official of the client organization who may be contacted. Include information on the experience of sub-contractors as it relates to their role in meeting the requirements of this RFP.

Sample of Products on digital media:

Kankakee County GIS requests sample digital hydrographic/bathymetric data that will be similar to the products required here. Samples should be in ESRI format and include contour data sample and a surface raster or TIN sample.

Cost Proposal:

See Proposal Response Form

Selection Criteria

Experience and Qualifications as Evidenced by:

1. Company background and history
 - Resumes for lead staff that would work on this project
 - Relevant experience with comparable projects covering similar geographic extents
 - Client references
2. Ability to Meet the Project Schedule and Complete the Project as Evidenced by:
 - Size of company; number of skilled employees
 - Adequacy of resources
 - Ability to meet scheduled completion dates
 - Understanding of project milestones
 - Client references
3. Quality of the Proposed Approach as Evidenced by:
 - Understanding and presentation of responses to technical issues
 - Use of modern technology
 - Project management plan incorporated in the response
 - Quality control procedures
 - Client references
4. Satisfactory relationship with the County based on prior work
5. Price
6. Project Deliverables

Hydrographic Survey
Request for Proposals
Kankakee County GIS
INTENT TO RESPOND

This form indicates the firm's intent to respond to this Request for Proposal

Firm Name: _____

Primary Contact Person: _____

Primary Contact Person Position: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

MAIL, FAX, or EMAIL

By: 3:30 P.M. CST, January 20, 2023

To :

Geoff Olson, GIS Coordinator
Kankakee County GIS
189 E Court Street; Suite 202
Kankakee, Illinois 60901

Fax: 815- 937-2974
Email: golson@k3county.net

Hydrographic Survey Request for Proposals Kankakee County GIS PROPOSAL RESPONSE FORM

Firm Name: _____

Primary Contact Person: _____

Primary Contact Person Position: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

Survey Option 1 Single-Beam Echosounder	Cost Per Day: _____ Total Cost: _____
Survey Option 2 Dual-Frequency Echosounder	Cost Per Day: _____ Total Cost: _____
Survey Option 3 Multi-Beam Echosounder	Cost Per Day: _____ Total Cost: _____
Survey Option 4 Dual-Frequency Multi-Beam Echosounder	Cost Per Day: _____ Total Cost: _____

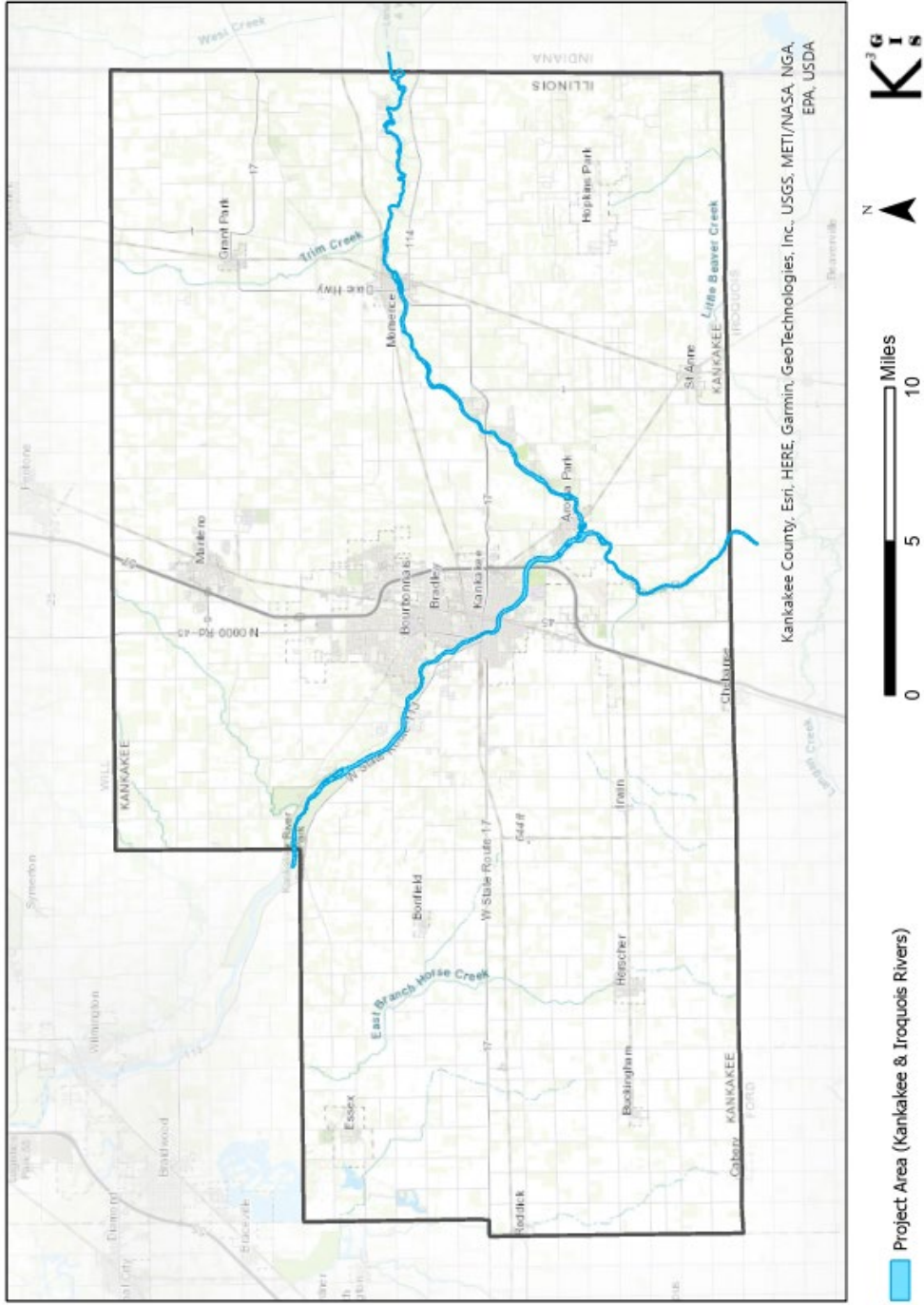
All digital products will be delivered in the Illinois State Plane, Eastern Zone projection using the NAD83 horizontal datum, in feet. All vertical measurements will be referenced to the NAVD 1988 datum, in feet, 1997 adjustment (HARN).

Signature

Date

General Project Area Map

General Project Map of the Kankakee and Iroquois Rivers in Kankakee County, Illinois for the 2023 Bathymetric/Hydrographic Survey RFP



November 16, 2022



Project Area (Kankakee & Iroquois Rivers)

Note: River edges are approximate and interpreted from 2020 ortho-imagery.

ESRI Shapefile furnished upon request. The shapefile will be in NAD83 Illinois State Plane, Eastern Zone.