United States Department of the Interior

BUREAU OF RECLAMATION
Upper Colorado Regional Office

SOURCES SOUGHT

Please respond to tspencer@usbr.gov, no later than
3:00 PM MT on December 14, 2022

Surveying Services for the Bureau of Reclamation Upper Colorado Regional Boundary

The Bureau of Reclamation has a need for professional surveying services within the Upper Colorado Regional boundary. Professional surveying services work tasks are not limited to the following but will consist of boundary, horizontal and vertical control, cross-sectioning, alignment profiles, topography and topographic mapping, slope (Cut & Fill) staking, collimation, settlement, canals, channels, ditches, irrigation systems, existing infrastructure, new structure layouts, and associated vegetation brushing to allow line-of-sight surveying. The boundary of Upper Colorado Region encompasses all or parts of Arizona, Colorado, Idaho, Nevada, New Mexico, Texas, Utah, and Wyoming.

Background

Reclamation's Albuquerque Area Office (AAO) has been contracting for professional surveying services from the middle 1980s. The boundary for these survey contracts has ranged from the AAO boundary to the present UC Regional boundary.

Reclamation anticipates under this service contract most work activities will be performed within the AAO boundary which covers central south Colorado, New Mexico, and northwest Texas with most of the work being performed along the Rio Grande corridor.

Survey projects will range from a few thousand to several millions based on complexity and period of performance. Reclamation has seen surveying project schedules impacted by weather, migratory birds, endangered or threaten species, and land or infrastructure site restrictions set by the proprietary.

SCOPE OF WORK:

This requirement includes, but is not limited to, the following items:

General Surveying

Land Boundary Surveys

This work is called boundary, land, or cadastral surveying and requires researching, studying, and investigation of documents, and evaluation of all major and minor factors affecting and influencing the location of boundary lines. This work should culminate in the deliberate location or relocation of the perimeters, division lines, or boundaries of a certain lot, parcel, right-of-way, or area of land, according to the record title description of the parcel or parent tract. The title description may be furnished by the Government but can be researched by the Contractor and jointly agreed upon before beginning survey activities.

Preparing Legal Land Descriptions and Reports

This type of work requires using information acquired during the "Land Boundary Surveys" for analysis and preparing legal descriptions, easements, and related documents or reports regarding the apparent status of a certain lot, parcel, right-of-way, or area of land title, exhibits for litigation, utility easements, and filing with the proper land office.

Horizontal and Vertical Control

This type of survey requires horizontal and vertical control networks to be maintain by running level circuits, triangulations, and GPS methods for setting benchmarks, monuments, end points, boundary corners, TBM, deflection points, and to re-establish horizontal and vertical control that has been damaged in the field. These control networks are required for other survey activities or projects for Reclamation.

Field Brushing

The contractor will be required to clear vegetation from survey site lines to perform field surveys. The brushing work is complex and has been performed in flowing water to depths up of 4.0 ft., in knee-deep mud, and can require the use of a Contractor's supplied motorized boat.

Cross Sectioning and Alignment Profiles

The cross-section and profile intervals, offsets, lengths, and distances, including horizontal and vertical scale for drawings and electronic files will be specified in the Task Order.

Topography Mapping

The scale, contour interval, coordinate system, features, and electronic formats for topography maps will be specified in the Task Order.

Slope & Offset Staking

The accuracy for cut and fill stakes measurements will be at 0.01 foot for structures and 0.1 foot for earthwork. The interval between stakes and offset distances will be specified in the Task Order.

Collimation & Settlement Surveys

These surveys are performed on Reclamation reservoirs twice a year or once every three years depending on the SOD requirements for each reservoir.

Existing and New Infrastructure (Structures)

Infrastructure surveys consist of performing topographic, cross-sections, alignment profiles, recording construction materials, and either delivering the data to the Government or creating topography maps.

In addition, new structure surveys may require the following field surveying activities: setting cut and fill stakes, layout of structure alignments including any required offsets, layout curve tangents, checking grade, confirmation of structure location or elevations, and verifying other engineering features or requirements as specified in the Task Order.

Range Line Surveys

These surveys concisely require field brushing, establishing or re-establishing control on the endpoints or TBM's, and plotting the survey data on either Government provided aerial photographs or digital imagery or digital imagery acquired from other sources.

Field Notes

The crew chiefs shall record field activities into professional engineer field surveying books for a permanent survey record. Survey notes shall be legible and, in a format, acceptable to the COR.

Surveying Multiple Project Sites

The contractor could be directed by the CO/COR to perform work under this contract that may require a survey crew to work in more than one location in a day. Occasionally, a survey crew will be stopped before completion of the survey assignment within a Task List or Task Order by the CO/COR and directed to work on other survey Task List or Task Order assignments as surveying priorities change for the Government.

OFFICE ACTIVITIES

Record Keeping

The contractor shall submit all record books after completion of survey project or Task Order to the Government. If copies of record book entries are required during an ongoing project or Task Order, the contractor shall supply all of them within one working day by fax or two working days by mail from time of request. The copy materials shall be clean and easily readable. All survey notes and computations required to assure accuracy of the survey project shall be documented and submitted with the record books.

Computer Aided Drafting

The CAD standard for Reclamation is Autodesk, AutoCAD Civil 3D Release 2015 or as required by Task Order at time of award. This standard will change during the life of this contract, but not more than once a year. The contractor will receive a written notification of Reclamation's preferred CAD format for future electronic drawing submittals and the contractor has 90 days to comply.

Geographic Information Systems

The GIS standard for Reclamation is ESRI's ArcView Release 9 or latest version as required by Task Order at time of award. This standard will change during the life of this contract, but not more than once a year. The contractor will receive a written notification of Reclamation's preferred GIS format for future GIS electronic data submittals and the contractor has 90 days to comply. The required information for each GIS data project will be included in the Task Order.

Electronic Media.

Reclamation's standard file format for spreadsheets and word processing data is Microsoft, Excel and Word 2019 or latest version as required by Task Order at time of award. The standard for general data file transfer is ASCII file format.

Researching Records

This type of survey assignment can require researching land ownership records and verification of property documents in county records or other land offices. In addition, this type of survey

activity could involve researching sources for spatial data which could include irrigation infrastructure, aerial imagery, public access information etc.

SMALL BUSINESS REPRESENTATION

All responsible **Small Business Sources** may submit a Capabilities Statement to include experiences and expertise, examples of similar projects that reflect the requirement, type of work complexity and value which shall be reviewed by the agency.

Interested **Small Business Sources** should include the following information in their response: (a) Business name, address, cage code, size classification based on NAICS size standard, socioeconomic classification (i.e. HUBZone and/or 8(a)), and a point of contact; (b) Evidence of your experience performing similar and relevant to the type and scope of work in this announcement within the last three years. The evidence should include: contract numbers, project titles, dollar amounts and points of contacts with telephone numbers. Please do not include more than three past projects; and (c) Include attachments cataloging the company's equipment assets (as necessary), resources that demonstrate company responsibility and capability to perform required work.

Submit an electronic Capabilities Statement to tspencer@usbr.gov by December 14, 2022, at 3 PM MT (Mountain Time). Prospective Contractors must be registered and must maintain an active registration in the System for Award Management, (SAM), as required by FAR 4.1102. Prospective contractors must be registered prior to any prospective award. Lack of registration in the SAM database will make an offeror ineligible for prospective award. Information on SAM registration can be obtained via the internet at http://www.sam.gov.