



CARSON WATER SUBCONSERVANCY DISTRICT

NOTICE OF REQUEST FOR STATEMENT OF QUALIFICATIONS (SOQ)

DEVELOPMENT OF A WEB ACCESS SYSTEM FOR FLOOD STUDIES DATA COMPLETED IN THE CARSON RIVER WATERSHED

SOQ DUE DATE: November 4, 2020 AT 2:00 P.M.

SUBMITTAL LOCATION: Carson Water Subconservancy District
777 E. William St., Suite 110A
Carson City NV 89701

QUESTIONS SHALL BE DIRECTED TO: Edwin James, General Manager
(775) 887-7456
edjames@cwsd.org

INTRODUCTION/GENERAL

Notice is hereby given that the Carson Water Subconservancy District, hereinafter referred to as “CWSD” is interested in developing a web access system to view various flood mapping studies such as: CLOMR/LOMA/LOMR studies, Area Drainage Master Plans, and flood mitigation plans.

CWSD invites interested firms to submit written Statements of Qualifications (SOQ) relating to this solicitation. A Screening Committee will evaluate firms’ qualifications and experience with similar projects. The firms determined to be best qualified will then be invited to enter into negotiations with CWSD for fixed fee.

A complete copy of this Notice and possible amendments may be obtained from CWSD website at: www.CWSD.org. Respondents are invited to review the information and to submit their Statements of Qualifications in accordance with the criteria established within this Notice. Written questions regarding this Notice must be received by CWSD no later than **5:00 PM on October 16, 2020**. Questions may then be responded to by written amendment to this document. Oral statements or instructions shall not constitute an amendment to the Notice. Refer to Project Selection Process Among Consultants section below.

All electronic and paper submittals, as specified below, must be received by the due date and time at the submittal location specified herein. **Any response received at the specified submittal location after the due date and time assigned will be returned unopened.** CWSD reserves the right to reject any or all submittals, or to

withhold the award for any reason it may determine, and to waive or not to waive any informalities in any submittal. All information regarding the content of the specific submittals will remain confidential until a contract is finalized or all submittals are rejected.

ISSUE DATE: October 6, 2020

This contract will be considered a “not to exceed – lump sum contract.” The work performed in this contract is intended primarily to be through development and completion of individual work assignments, tasks, and specified deliverables. The selected consultant will work with the Carson Water Subconservancy District and representatives from the counties in the Carson River Watershed to develop a more detailed scope prior to entering into a professional services contract.

A preliminary project description is provided in Exhibit A.

CONSULTANT SELECTION PROCESS

CWSD and county representatives may select the consulting firm based solely on the SOQ or the top firms may be asked to present their qualifications to the selection committee.

INSTRUCTIONS TO CONSULTANTS

1. **SUBMITTAL FORMAT:** Please provide one original hard copy, plus two (2) **electronic copy on flash drive.** CWSD will not provide any reimbursement for the cost of developing or presenting proposals in response to this Notice. Failure to include the requested information may have a negative impact on the evaluation of the offeror's submittal.
2. **PREPARATION OF SUBMITTAL:**
 - a. All proposals shall be on the form(s) or in the format provided in this Notice package.
 - b. It is the responsibility of all offerors to examine the entire Notice package and seek clarification of any requirement that may not be clear and to check all responses for accuracy before submitting a proposal.
3. **SUSPENSION OR DEBARMENT CERTIFICATION:** In accordance with Federal Regulations (CFR), public entities are prohibited from contracting with any party that is suspended or debarred or is otherwise excluded from participating in federal assistance programs.

As federal funding may be used for CWSD project; by signing the Offer and Acceptance page, the Consultant certifies that the firm, business or person submitting the Offer has not been debarred, suspended or otherwise lawfully precluded from participating in any public procurement activity with any federal, state or local government. Signing the Offer section without disclosing all pertinent information about a debarment or suspension shall result in rejection of the offer or cancellation of a contract.

4. **WHERE TO SEND SUBMITTALS:** In order to be considered, the Consultant must send their Statement of Qualifications to CWSD at the location indicated on the Notice Page. The submittal must be received by no later than the specified opening date and time.
5. **INQUIRIES:** Any question related to this Notice shall be directed to the General Manager whose name appears on the front side of this document. Questions should be submitted in writing. Only questions answered by formal written solicitation amendment will be binding.

6. **REQUEST FOR ADDITIONAL INFORMATION:** CWSD reserves the right to request additional information from Offerors for the purpose of explaining the contents of a submittal. Any such request shall be for informational purposes only.
7. **AWARD OF CONTRACT:** Notwithstanding any other provision of the Solicitation, CWSD reserves the right to:
 - (1) waive any immaterial defect or informality; or
 - (2) reject any or all proposals of work SOQs, or portions thereof; or
 - (3) reissue the Notice.
8. **LATE SUBMITTALS:** Late submittals shall not be considered.

1. **PREPARATION OF SUBMITTAL:**

A. **EVALUATION REQUIREMENTS:**

A qualified committee will evaluate the SOQ's submitted in accordance with the Consultant Questionnaire.

Points shall be assigned according to the listed criteria. The firms will then be ranked by CWSD.

CWSD reserves the right to make such additional investigations as it deems necessary to establish the competency and financial stability of any party submitting a proposal.

B. **INSTRUCTIONS FOR SUBMITTAL:**

Submittal for the projects shall be limited to the items listed below. Firms are advised to follow instructions and submit only the requested information. A page is one side of an 8.5" x 11" sheet (minimum font size is 11).

1. **COVER LETTER** expressing interest in project. The cover letter shall also identify a single individual as point of contact for any future correspondence. (Suggested 2 page maximum)
2. **CONSULTANT QUESTIONNAIRE:** It is preferred that the answers to the Consultant Questionnaire be limited to ten (10) pages including graphs, charts, schedules, and any other associated material, excluding resumes.

CONSULTANT QUESTIONNAIRE

Firms will be screened based on evaluation of the Consultant Questionnaire using the following criteria, which are listed in relative order of importance.

1. **FIRM EXPERIENCE ON SIMILAR PROJECTS – 20 POINTS**

The Consultant should describe the firm's experiences in dealing with similar web access systems.

- A. Identify similar projects to build web access systems which demonstrates work quality; the below list is a guideline, but is not all-inclusive:
 1. Database Architecture Development

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EDWIN JAMES, GENERAL MANAGER

E-MAIL: edjames@cwsd.org

2. Database Management
3. Technical IT project management
4. Converting Flo-2D and Hec-RAS 1D/2D data into online web access maps using ArcGIS to view results of these types of studies:
 - a. Stormwater Planning & regulatory process
 - b. Area Drainage Master Plans & Drainage studies

B. Provide specific references that may be contacted.

C. Explain how the experience identified above relates to the services.

2. EXPERIENCE AND QUALIFICATIONS OF TEAM – 10 POINTS

Provide experience and qualifications of key team members including any licenses, registrations, or certifications applicable to the proposed work. Identify team experience on similar projects and the extent of team involvement including time commitment.

A. Identify the project principal, project manager, key staff, and their qualifications and experience as they relate to these services. Include resumes in appendix.

B. Team experience on similar contracts.

C. Time commitment of key team members.

D. Unique qualifications of key members.

E. Qualifications and relevant individual experience.

SPECIAL TERMS AND CONDITIONS

1. **INSURANCE PROVISIONS AND CONDITIONS:** All consultants must carry the following insurance and agree to the following conditions.

A. COVERAGE AFFORDED

MINIMUM LIMITS OF LIABILITY

Workers' Compensation liability insurance for not less than \$1,000,000

Statute or a State Certificate of self-insurance and employer's

Commercial General Liability

\$1,000,000 each occurrence
\$2,000,000 aggregate

Automobile Liability Insurance

\$300,000 combined single limit to include any vehicle

Professional Liability

\$1,000,000 each occurrence
\$2,000,000 aggregate

B. INSURANCE CONDITIONS

- i. **GENERAL CONDITIONS:** The Contractor agrees to, at its own expense, purchase and maintain at all times during the life of this contract the herein stipulated minimum insurance with companies duly licensed, possessing a minimum current A.M. Best, Inc. Rating of A- FSC VIII, or approved unlicensed companies in the State of Nevada with policies and forms satisfactory to CWSD. All policies will contain an endorsement providing that written notice be given to CWSD at least ten (10) calendar days prior to termination, cancellation or reduction in coverage in any policy.
- ii. **WAIVER OF SUBROGATION OR TRANSFER OF RIGHTS OF RECOVERY:** The policies required herein, except Professional Liability, shall contain a waiver of subrogation or in the alternative, a waiver of transfer of rights of recovery against CWSD, its agents, representatives, officers, directors, officials and employees for any claims arising out of the Contractor's work or service.
- iii. **ADDITIONAL INSURED:** The insurance policies required by this Contract, except Workers' Compensation and Professional Liability, shall name CWSD, its agents, representatives, officers, directors, officials and employees as Additional Insured with a CG 20 10 or similar endorsement. The Contractor agrees that the insurance required herein will be primary and that any insurance carried by CWSD will be excess and not contributing. All insurance policies of the Contractor shall be primary in relation to the Additional Insured.
- iv. **ENDORSEMENTS AND CERTIFICATE:** The following provisions are also required for the insurance(s), and evidence of such shall be satisfied by Certificate(s) and Endorsements. An insurance company authorized to transact business in the State of Nevada shall issue the Certificates. The Contractor shall, within ten (10) days after award of bid, furnish CWSD with Certificates of Insurance for the required insurance coverage. Endorsements for the Waiver of Transfer of Rights and Additional Insured shall be provided as indicated above, unless contained within the basic policy(ies) and then confirmed by written statement signed by the insurance agent, broker and/or underwriter in a form acceptable to CWSD.

- v. **SUBCONTRACTORS:** In the event any of the Work is subcontracted, the Contractor shall require the subcontractor to provide Workers' Compensation insurance for all of the subcontractor's employees engaged in the Work, unless such employees are covered by the protection afforded by the Contractor's Workers' Compensation insurance. In case any class of employees engaged in hazardous work under the Contract is not protected under the Workers' Compensation statute, the Contractor shall provide, and shall cause each subcontractor to provide, adequate employer's general liability insurance for the protection of such of their employees as are not otherwise protected.
- vi. **PROFESSIONAL LIABILITY (Errors & Omissions):** Professional liability insurance carried by the consultant must cover all elements of the project including professional services performed by subcontractors. If the consultant's professional liability insurance does not provided coverage for work performed by subcontractors, separate project insurance will be required to comply with the professional liability insurance requirement. CWSD may require a copy of the professional liability insurance policy to verify coverage.

3. **OWNERSHIP OF WORK:** The originals of all documents provided to the Consultant by CWSD for review and all work product of the Consultant including, without limitation, field review notes, field survey notes, reports, exhibits, computer outputs, calculation sheets, drawings, and all other documents, including recordings, videos and pictures associated herewith are instruments of service, are property of CWSD, and are to be delivered in format requested to CWSD before or as a part of completion of the performance under any phase of the Contract for which compensation and/or payment is requested by the Consultant. Any work produced under the Contract is a work made for hire. To the extent applicable law provides that any Work Product belongs to the Consultant rather than CWSD notwithstanding the preceding sentence, the Consultant assigns to CWSD all rights, title, and interest in and to such Work Product for no consideration other than that which is given in connection with this Agreement. The Consultant must promptly (1) provide CWSD with all information in the possession or under the control of the Consultant and relating to all Work Product and (2) at the request of CWSD, execute and deliver to CWSD each document and other writing, and take each other action, in order to assist CWSD in protecting its interest in any Work Product and otherwise enabling CWSD to use and enjoy any Work Product.

4. **KEY PERSONNEL:** It is essential that the Consultant provide adequate experienced personnel, capable of and devoted to the successful accomplishment of work to be performed under this Contract. The Consultant must agree to assign specific individuals to the key positions.

The Consultant agrees that, once assigned to work under this Contract, key personnel shall not be removed or replaced without express written consent of CWSD.

If key personnel are not available for work under the Contract as initially proposed or are expected to devote substantially less effort to the work than initially anticipated, the Consultant shall immediately notify CWSD, and shall, subject to the acceptance of CWSD, replace such personnel with personnel of substantially equal ability and qualifications.

Failure to comply with this requirement may be grounds for termination.

STANDARD TERMS AND CONDITIONS

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EDWIN JAMES, GENERAL MANAGER

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- 1. INDEPENDENT CONSULTANT:** It is clearly understood that each party shall act in its individual capacity and not as an agent, employee, partner, joint venture, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other party for any purpose whatsoever.
- 2. NON-EXCLUSIVE CONTRACT:** Any contract resulting from this solicitation shall be awarded with the understanding and agreement that it is for the sole convenience of CWSD. CWSD reserves the right to obtain like goods or services from another source when necessary.
- 3. AMERICANS WITH DISABILITIES ACT:** The Consultant shall comply with all applicable provisions of the Americans with Disabilities Act, Public Law 101-336, 42 U.S.C. 12101-12213, and applicable federal regulations under the Act.



EXHIBIT A

PROJECT DESCRIPTION

WEB ACCESS SYSTEM FOR FLOOD STUDIES CONDUCTED
IN THE CARSON RIVER WATERSHED

1. GENERAL DESCRIPTION

This project announcement is looking for an engineering firm to develop of a Web Access System (WAS) for the Carson Water Subconservancy District (CWSD) for the various LOMRs, Area Drainage Master Plans (ADMP), flood mitigation studies that have been conducted over the past six years. The selected professional engineering firm agrees to provide services to accomplish the work under the direction of a Registered Engineer within the State of Nevada in the appropriate discipline.

This contract will be considered a “not to exceed – lump sum contract.” The work performed in this contract is intended primarily to be through development and completion of individual work assignments, tasks, and specified deliverables. The selected consultant will work with the Carson Water Subconservancy District and representatives from the counties in the Carson River Watershed to develop a more detailed scope prior to entering into a professional services contract.

1.1 Background

Since 2005, CWSD has been coordinating several flood studies utilizing funding from FEMA Cooperating Technical Partners (CTP) program. During this period several LOMRs, Area Drainage Master Plans (ADMP), flood mitigation studies have been completed.

Under prior work efforts, series of 2-dimensional hydrologic and hydraulic models have been developed for large portions of CWSD’s jurisdiction. The spatial and tabular output from these models is useful in helping to inform stakeholders, including members of the public and CWSD stakeholder agencies, in development practices as well as identifying and mitigating flood hazards. Due to the volume and complexity of data produces by these models, an interactive medium is well-suited to facilitate communication and dissemination of model data.

1.2 Project Purpose & Need

The primary purpose of the WAS is to enable counties staff, developers, and engineering firms the ability to utilize the hydrologic and hydraulic models already been developed for several drainages in the Carson River Watershed.

1.3 Contract Schedule

Release of the RFQ:	October 6, 2020
Statements of Qualifications Due:	November 4, 2020
Select Consultant for Consideration:	November 20, 2020
Approval of Scope of Work and Contract:	January 20, 2021

2. PROJECT SERVICES AND TASKS

Once an engineering firm has been selected, a detailed scope of work shall be prepared by the consultant in consultation with CWSD and representatives from the counties in the watershed. It is anticipated that the scope of work will include the following but may be modified based on meeting with CWSD and the counties:

TASK 1.0 PROJECT MANAGEMENT

1.1 **Project Manager.** The selected consultant will name the Project Manager who will be the official point of contact between the Client Team and the Consultant Team for all issues related to the project.

1.2 **Project Coordination Meetings.** The Consultant Team will participate in monthly project coordination meetings with the Client Team via teleconference and WebEx meetings if necessary.

1.3 **Invoicing.** The consultant will invoice the Carson Water Subconservancy District monthly with a percent complete estimate for each task. The invoice will include a brief progress report per task.

TASK 2.0 DEVELOP SYSTEM ARCHITECTURE AND IMPLEMENTATION PLAN

2.1 The Consultant will coordinate with CWSD and county representatives in the Carson River Watershed to develop a system architecture and implementation plan. This plan will form the backbone for the implementation of the individual elements in subsequent tasks. Due to multiple possible implementation strategies, not every element may be required in the final implementation plan. Elements to be addressed in the plan include:

- System Configuration
 - Network
 - Domain Registration, if necessary
 - SSL Certificate Purchase/Installation
 - Hardware
 - On-Premise vs. Cloud
 - Network Infrastructure Needs
 - Software
 - Identify software needs
 - Identify Software Costs and Licensing
 - Assess ArcGIS Online suitability
 - GIS
 - Study/Model Hierarchy (cross-indexed with Website)
 - Model Data Symbology and levels of detail
 - Anticipated Geoprocessing Tools (cross-indexed with Website)
 - Hydrograph-By-Line
 - Feature Hydrograph

- Water Surface Elevation By Line
- Map Print to PDF
- o Website
 - User Access Levels
 - Study/Model Hierarchy (cross-indexed with GIS)
 - Anticipated Geoprocessing Tools (cross-indexed with GIS)
 - Associated Widgets
 - Develop Web App Builder Application
- System Hosting Options
 - o On-Premise vs. Cloud
 - Procedures
 - o Initial Publishing
 - o Updating
 - o Maintenance

TASK 3.0 HARDWARE AND SOFTWARE PURCHASE AND INSTALLATION

3.1 Hardware Acquisition and Setup

The Consultant will assist CWSD and counties in the Watershed in selecting a physical server for system, as necessary. As an alternative to a physical server, a cloud-based server may be selected for use. Funds for hardware purchase and/or cloud-based server use are not included in this scope/fee and will vary depending upon the needs identified by CWSD and counties. This scope assumes use of a single physical/cloud server for web hosting, ArcGIS Enterprise installation, and file storage. The web host may be CWSD or one of the other counties in the Watershed.

3.2 Network Infrastructure Coordination

The Consultant will coordinate, as needed, to implement a physical server or cloud solution with CWSD's or County's existing network infrastructure. This task may require coordination with other CWSD or County vendors or consultants to implement necessary firewall rules or network configuration.

3.3 Software Purchase

The Consultant will coordinate with CWSD to purchase appropriate software and software licenses for the WAS, as necessary.

TASK 4.0 SYSTEM SOFTWARE/SITE DEVELOPMENT

4.1 ArcGIS Enterprise Installation

The Consultant will install ArcGIS Enterprise software on the physical/cloud-based server procured per Task 3.1. ArcGIS Enterprise installation will include installation of ArcGIS Server and the ArcGIS Server Web Adapter and ArcGIS Portal; use of Microsoft Internet Information Systems is assumed (this is a free feature in Windows systems).

4.2 Develop Model Symbology and Layers

The Consultant will develop a standard set of symbologies and layers for model map services. Template ArcGIS map documents will be developed for use by two classes of users: technical users and public users. The technical user map documents will include a greater range of model input and output variables for review by technical users, such as engineers and agency technical staff.

4.3 Generate Model Spatial Data

The consultant will post-process CWSD's currently finalized LOMR's, flood mitigation studies, and ADMP's to generate spatial data for use in the published maps. This post-processing will use the Flood Control District of Maricopa County's Command Line Tools to generate spatial and tabular data.

4.4 Geoprocessing Service Publishing

The Consultant will publish geoprocessing services for hydrograph-by-line and water-surface-elevation-by-line functions to the ArcGIS Server instance configured in Task 4.1.

4.5 ArcGIS Server Publishing

The Consultant will publish map services to ArcGIS Server installed per Task 4.1 or to ArcGIS Online, as necessary. These map services will consist of ADMP FLO-2D model data processed per Task 4.3 and symbolized in ArcGIS maps per Task 4.2.

4.6 Website Configuration

The Consultant will configure a website on the server procured per Task 3.1. The viewing system will incorporate ArcGIS Server map services published in Task 4.4. Installation of an Secure Socket Layer (SSL) certificate for the website may be included.

4.7 Web App Builder Site Development

The Consultant will develop an ESRI Web App Builder site, or similar, to view ADMP- and model-level data on the website configured in Task 4.6. Two Web App Builder sites will be configured, one for members of the general public and one for technical users. These sites will utilize map services based upon the ArcGIS map documents developed in Task 4.2. The technical user site will include the custom geoprocessing services published in Task 4.4.

Task 5.0 System Documentation and Roll-Out

5.1 System Documentation

The Consultant will prepare a user's manual and administration manual. Topics to be covered in the user's manual include, basic site features, geoprocessing features, and how to print from the site. The administration manual will include elements such as site management protocols and credentials as well as procedures for adding or updating individual models or studies.

5.2 Response to Testing

The Consultant will make adjustments to site aesthetics based upon stakeholder feedback and concurrence from CWSD. This task is intended to aid in ease of use of the site and does not include modifications to geoprocessing services, model symbology, or published map services.

5.3 Training

The Consultant will provide training to appropriate staff at CWSD and counties on how to utilize this web access system. This task is intended to aid in ease of use of the site and does not include modifications to geoprocessing services, model symbology, or published map services.

Task 6.0 As-Needed Support

The Consultant will provide as-needed support for the site on a time-and-materials not-to-exceed basis for 1-year. This support can be renewed annually to provide for site maintenance, troubleshooting, and addition of additional models, as they are developed in the future.



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