



CALAVERAS COUNTY WATER DISTRICT

120 Toma Court

San Andreas, CA 95249

(209) 754-3543

REQUEST FOR PROPOSAL

Design, Engineering and Environmental Services for
CalOES/FEMA Hazard Mitigation Grant Program Project
West Point Water Supply Drought Project
Issued: October 25, 2024

INTRODUCTION/PROJECT BACKGROUND

Calaveras County Water District (CCWD) owns and operates the West Point Water System which provides potable water to approximately 600 Residential and Commercial Customers. The West Point Regulating Reservoir (also known as Bummerville Reservoir) is the only storage pond for the West Point Water System. Raw water flows by gravity from Bear Creek into the West Point Regulating Reservoir. During drought periods the year around storage of water in the Regulating Reservoir does not meet water demands, as a result the District has to purchase water from the Mokelumne River. This Proposed Project increases the storage capacity of the Regulating Reservoir from 50 AF to approximately 150 AF, thereby reducing the dependance on outside water. The District has secured grant funding for this Project from FEMA/Cal-OES to complete Phase 1 which includes 60% Engineering Design and Environmental Studies. Phase 2 Final Engineering Design and Construction funding approval is contingent on programmatic review and Environmental and Historic Preservation (EHP) approval. There are numerous FEMA Federal Contracting requirements that will be part of the selection process and final agreements to provide services, all subconsultants will be required to meet the same requirements as the selected consultant.

SCOPE OF WORK

The Scope of work includes the development of detailed engineering drawings and specifications for raising and enlarging the West Point Regulating Reservoir. Work activities include topographic mapping and land surveying; geotechnical studies; analysis and permitting of import borrow sites; surface hydrology analysis; performing biological studies, cultural resources, and historic properties surveys; stormwater pollution prevention plans; finalize environmental efforts (CEQA); documentation for (NEPA) review; tree surveys; monitoring and pre-construction surveys; dewatering and interim water supply plans; and preparing and submitting permit applications for Army Corp Engineers (404), Water Board (401), Department of Fish and Wildlife (1600) and Division of Safety of Dams. The Geotechnical Borings required to complete the Phase 1 Engineering Design are determined to be Categoricaly Excluded from the need to prepare either an Environmental Impact Statement or Environmental Assessment in accordance with FEMA. Construction Survey and Engineering Services during construction will also be required upon approval of the Phase 2 Portion of the Project.

Upon completion of the work required to comply with the California Environmental Quality Act (CEQA) the consultant shall substantiate the CEQA determination. The District anticipates that this Project will fall within the category of Mitigated Negative Declaration (MND). The Draft CEQA document will be issued, and final version amended in response to Public Comment. In accordance with Assembly Bill AB52, the Consultant will need to assist the District in notification of American Indian Tribes which may result in a Districts request for subsequent consultation.

PROJECT DESIGN

The 2018 West Point Master Plan completed by KASL Engineers provides the Conceptual Design of the Enlargement to the Reservoir. There are several iterations and conceptual designs identified in the master plan that would achieve the required capacity increase. The District has settled on a combination of excavation within the body of the reservoir and dam enlargement/extension to achieve capacity of 150 AF. The existing spillway, existing piping, drainage channel, and other appurtenance will also need to be modified or replaced. The District anticipates the existing concrete lined channel will need to be replaced with box culvert where it intersect the fill for the enlarged dam. A substantial amount of imported select fill will be required to enlarge the dam and construct associate berms, a nearby suitable borrow site will need to be identified and environmental clearances secured. The Reservoir is “off-line” from any active creeks or channels and raw water flow to the Treatment plant can bypass the reservoir during construction allowing dewatering of the reservoir.

A. Preliminary Design Report: The Consultant shall prepare a preliminary design report with recommendations and conclusions concerning the proposed project design. The report shall address the following:

1. Recommendations regarding proposed design.
2. Review of RFP project design requirements and recommendations concerning methods for reducing costs and/or alternative improvement solutions.
3. Recommend construction phasing.
4. Preliminary Engineering Design
5. Preliminary scaled design concept drawings.
6. Preliminary Cost Estimate

B. Drawings. The Consultant shall provide all necessary civil, structural, mechanical, and process drawings for execution of project construction. This includes standard drawings such as: cover sheet, index of drawings, vicinity and location map, general notes, project notes, standard details, description of symbols, and abbreviations. The 100 percent drawings shall represent the final project design. The Consultant shall anticipate minor revisions to the 100 percent drawing based upon final District comments prior to production of the Bid-Ready set.

Deliverables: 30%, 60%, 90% and Bid-Ready drawings for incorporation with Project Manual. Drawing submittals shall be furnished to the District in (Adobe pdf) file format for reproduction as both 11”x17” (ANSI C) and 22”x34” (ANSI D) paper size. Bid-Ready drawings shall be furnished in Autodesk® AutoCAD™ format.

C. Project Manual: The Consultant shall prepare a project manual including front end document, technical specifications, and appendices. The manual’s front-end documents

shall be based on the 2018 edition of the Engineers Joint Contract Documents Committee Standards (EJCDC®). A copy of the standards will be furnished to the Consultant by the District. The Consultant shall edit the EJCDC® documents adding any project specific and State of California contract requirements. Consultant shall provide a bid schedule, detailed descriptions for each bid item, alternative bid items, if any, and description of sequence of work. The technical specifications shall be based upon the Consultant’s standards, or if applicable, adapted from District standards. Project Manual appendices shall include copies of encroachment permits, stormwater pollution prevention plan (SWPPP), environmental/CEQA/NEPA documents and mitigation measures, geotechnical report, and other such reports.

Deliverables: 60%, 90%, and 100% percent Bid-Ready Project Manual.

D. Construction Cost Estimates: The District would prefer to have highly cost-effective design solutions. The consultant is to provide cost estimates at each step in the design effort so these estimates may be used as a tool to guide design choices and select more economical alternatives.

Deliverables: 60%, 90% and 100% construction cost estimates.

PROJECT SCHEDULE

MILESTONE	DATE
PHASE 1	
Engineering/Environmental Services Selection	December 11, 2024
Project RFP	October 25
Job Walk Appointments	November 11-22
Proposal Deadline	November 27
Pre-Design Report	March 2025
Design/Engineering Plans 30% and 60% Design Level Plans and Specifications	June/August 2025
Topographical Survey	February 2025
Native Tree Survey	February 2025
Geotechnical Studies and Barrow Site Analysis	May 2025
Environmental Review of Borrow Site	May 2025
Surface Hydrology Analysis	May 2025
DSOD Permit and Application	May 2025
Section 404/401 and 1602 Permits	May 2025
Prepare & Adopt Environmental Documents	May 2025
PHASE 2	
Design/Engineering Plans 90% Design Level Plans and Specifications	Two Months after Phase 2 Award
Bid Ready Construction Plans/Specifications	Three Months after Phase 2 Award
Construction Contract Award	Five Months after Phase 2 Award

Phase 1 Completion date is November 12, 2025, all Phase 1 Project Deliverables must be submitted to FEMA prior to the completion date.

PROPOSALS/SELECTION CRITERIA

The proposal may be in any format that best represents and demonstrates Consultant's qualifications, experience, organizational structure, team/staff members, etc. As a minimum, provide a statement of qualifications, representative project references, scope of work, detailed schedule/gantt chart with tasks and milestones, total fee estimate by tasks including hours and hourly rates, and subconsultant costs. Also, please provide for reference subconsultant's scope and fee for electrical engineering, structural engineering, and geotechnical services. A panel of three or more CCWD staff will review the proposals and make a final selection for the award based on criteria such as approach to work, qualifications and experience, project references, cost effectiveness and value, proposed schedule and subconsultants. The Proposal should be broken down to identify task that are part of Phase 1 and task that are Part of Phase 2. Phase 2 Task are contingent upon District and FEMA Approval, and District may remove these tasks from the scope of work. Also, Consultant must accept/agree to the terms of District's standard Professional Services Agreement (PSA).

RECEIPT OF PROPOSALS

On or before 2:00 PM, Wednesday, November 27, 2024, please submit proposals and fee estimate in separate sealed envelopes, either hand delivered or sent FedEx (AM delivery).

Calaveras County Water District
120 Toma Court
San Andreas, CA 95249
Attn: Haley Airola Engineering Coordinator
Phone: (209) 754-3184
Email: haleya@ccwd.org

Please contact Haley Airola haleya@ccwd.org or Kevin Williams at (209) 754-3184 or kevinw@ccwd.org with questions regarding this project.

Attachments:

1. 2018 Supplemental West Point Water System Master Plan
2. FEMA Cal-OES Federal Contracting Requirements