



City of Sacramento City Council

915 I Street, Sacramento, CA, 95814
www.CityofSacramento.org

Meeting Date: 3/5/2013

Report Type: Consent

Title: Supplemental Agreement: Additional Design Services for Shasta Park Reservoir, Groundwater Well, and Booster Pump Station Project (Z14005400)

Report ID: 2013-00134

Location: District 8

Recommendation: Pass a Motion authorizing the City Manager or the City Manager's designee to sign Supplemental Agreement #1 to City Agreement Number 2012-0790, with West Yost Associates, for additional design services for an amount not to exceed \$284,100, bringing the total agreement amount to \$321,400.

Contact: Bill Busath, Engineering Manager, (916) 808-1434; Dan Sherry, Supervising Engineer, (916) 808-1416, Department of Utilities

Presenter: None

Department: Department Of Utilities

Division: Cip Engineering

Dept ID: 14001321

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Shasta Park Location map
- 4-Shasta Park Site Plan
- 5-Agreement

City Attorney Review

Approved as to Form
Joe Robinson
2/26/2013 11:31:43 AM

City Treasurer Review

Reviewed for Impact on Cash and Debt
Russell Fehr
2/20/2013 12:03:10 PM

Approvals/Acknowledgements

Department Director or Designee: Dave Brent - 2/25/2013 2:34:31 PM

Description/Analysis:

Issue: On September 5, 2012, the City entered into an agreement with West Yost Associates (2012-0790), for an amount not-to-exceed \$37,300, to provide evaluation and oversight of the in-house design of the Shasta Park Reservoir Project. Due to staff workload and the desire to accelerate the design and construction of the facility, City staff now recommends amending the West Yost Associates agreement to include design services.

Approval of the proposed supplemental agreement with West Yost Associates would authorize performance of these services, which would increase the agreement by an amount not to exceed \$284,100.

Policy Considerations: The Shasta Park Reservoir Project is consistent with both City and regional water planning efforts to provide a safe and reliable water supply.

Economic Impacts: None.

Committee/Commission Action: None.

Environmental Considerations:

California Environmental Quality Act (CEQA): An Initial Study, Mitigated Negative Declaration, and a Mitigation Reporting Program for the Shasta Park Water Reservoir Project were prepared for this project in accordance with CEQA. The City Council adopted the Mitigated Negative Declaration and Mitigation Reporting Program on May 22, 2012 (Resolution No. 2012-138). No additional environmental review is required for approval of the additional design services, because no changes are proposed in the project, nor has there been any change in circumstances or new information that involve new environmental effects or any increase in previously identified environmental effects (see CEQA Guidelines section 15162).

Sustainability Considerations: The Shasta Park Reservoir Project has been reviewed for consistency with the goals, policies, and targets of the Sustainability Master Plan and the 2030 General Plan. The Project will advance these goals, policies, and targets by ensuring that the City continues to provide a safe, clean, and reliable water supply to its customers.

Rationale for Recommendation: Approval of Supplemental Agreement No. 1 with West Yost Associates will allow the City to continue with the design of the Project.

Financial Considerations: The supplemental agreement with West Yost Associates is for the amount not-to-exceed \$284,100. Approval of this agreement will bring the total agreement amount to \$321,400, which includes the initial

agreement amount of \$37,300, which will be reallocated to fund the additional design services.

There is sufficient funding available in the Shasta Park 4MG Reservoir and Pump Station Project CIP (Z14005400) to issue the proposed supplemental agreement.

Emerging Small Business Development (ESBD): West Yost Associates is not an ESBE firm.

Background

The 2005 Water Master Plan concluded that a finished water reservoir should be constructed in the southeast portion of Sacramento to help maintain service pressure through peak demand periods, and to provide additional emergency and fire suppression water supply.

The Shasta Park Reservoir Project (Project) includes the construction, operation and maintenance of an above-ground 4 million gallon (mg) water storage tank, 2 million gallons per day (mgd) groundwater well, 2 mgd ground water treatment system, and a 15 mgd pump station. The reservoir and buildings will be constructed of reinforced concrete and decorative block. Other site improvements will include a perimeter fence, landscaping, lighting, and security system.

On May 22, 2012, City Council approved the purchase of the Project site, a 5.31 acre vacant parcel (APN 117-0182-023), which is located at the terminal end of Imagination Parkway, immediately north of the Shasta Community Park (See Attachment 3). The property purchase price was \$580,000.

In January, 2012, a Request for Qualifications was issued for design services for the Project, and twelve firms submitted Statements of Qualifications. Two firms were selected by a 5 person panel, which included a reviewer independent of the City, as the firms most qualified to provide engineering design services: 1) Wood Rodgers was selected for design of the groundwater well, and 2) West Yost Associates was selected to evaluate the adequacy of the City's overall facility design.

The Wood Rodgers agreement (2012-0654) was approved July 12, 2012, for an amount not to exceed \$301,000. The scope of that design work is ongoing.

Also on July 12, 2012, the City Council authorized the City Manager to enter into an agreement with the Regional Water Authority (RWA) to provide for administration of the City's \$2,280,762 in grant funding from Proposition 84. \$988,199 of this grant is allocated to help fund the groundwater well at the Shasta Park Reservoir location.

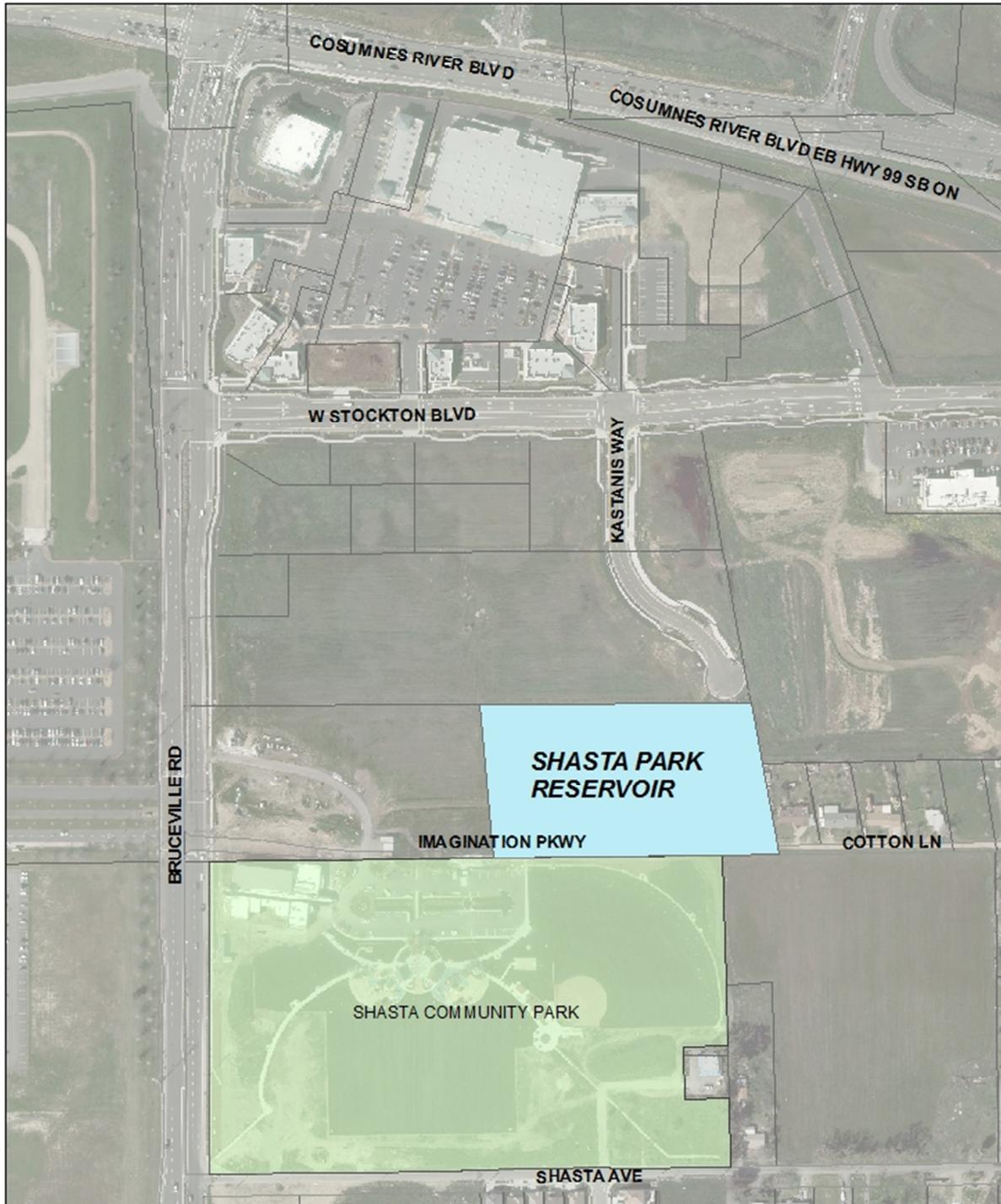
On September 5, 2012 the City Manager approved an agreement (2012-0790) with West Yost Associates to provide for a quality control assessment of the City's design, for the amount not-to-exceed \$37,300.

Initially staff anticipated that the design of this new facility was predominately going to be performed by the Department of Utilities staff. Due to staff workload and the desire to accelerate the design and construction of the facility, City staff now recommends enhancing the services of West Yost Associates to include design services, in collaboration with City staff.

The additional design services included in the proposed supplemental agreement were not specifically included in the previous Request for Qualifications (RFQ). However, staff believes that the Statements of Qualifications (SOQs) received in response to the RFQ fully support the selection of West Yost Associates to perform these services, because the primary criteria distinguishing West Yost Associates from the other firms that submitted SOQs was West Yost Associates' significant expertise in designing other similar reservoirs, and because the additional services are closely related to the design evaluation that West Yost Associates was initially retained to perform.

Approval of the proposed supplemental agreement with West Yost Associates would authorize performance of the additional facility design services for an amount not to exceed \$284,100, bringing the total agreement amount to \$321,400. The proposed supplemental agreement includes a reallocation of the initial agreement amount (\$37,300) to fund the additional design services.

**LOCATION MAP
CITY OF SACRAMENTO
SHASTA PARK RESERVOIR-PROPOSED
Z14005400**



SHASTA PARK RESERVOIR PRELIMINARY SITE PLAN



Project Title and Job Number: Shasta Park Reservoir/Z14005400

Date: 1/31/13

Purchase Order #: 0000018957

Supplemental Agreement No.: 1

The City of Sacramento ("City") and West Yost Associates ("Contractor"), as parties to that certain Professional Services Agreement designated as Agreement Number 2012-0790, including any and all prior supplemental agreements modifying the agreement (the agreement and supplemental agreements are hereafter collectively referred to as the "Agreement"), hereby supplement and modify the Agreement as follows:

1. The scope of Services specified in Exhibit A of the Agreement is amended as follows:

Contractor shall perform the additional services set forth in the Scope of Services attached hereto and incorporated herein by this reference..

2. In consideration of the additional and/or revised services described in section 1, above, the maximum not-to-exceed amount that is specified in Exhibit B of the Agreement for payment of Contractor's fees and expenses, is increased by \$284,100, and the Agreement's maximum not-to-exceed amount is amended as follows:

Agreement's original not-to-exceed amount:	<u>\$37,300</u>
Net change by previous supplemental agreements:	<u>\$0</u>
Not-to-exceed amount prior to this supplemental agreement:	<u>\$37,300</u>
Increase/decrease by this supplemental agreement:	<u>\$284,100</u>
New not-to exceed amount including all supplemental agreements:	<u>\$321,400</u>

3. Contractor agrees that the amount of increase or decrease in the not-to-exceed amount specified in section 2, above, shall constitute full compensation for the additional and/or revised services specified in section 1, above, and shall fully compensate Contractor for any and all direct and indirect costs that may be incurred by Contractor in connection with such additional and/or revised services, including costs associated with any changes and/or delays in work schedules or in the performance of other services or work by Contractor.

4. Contractor warrants and represents that the person or persons executing this supplemental agreement on behalf of Contractor has or have been duly authorized by Contractor to sign this supplemental agreement and bind Contractor to the terms hereof.

5. Except as specifically revised herein, all terms and conditions of the Agreement shall remain in full force and effect, and Contractor shall perform all of the services, duties, obligations, and conditions required under the Agreement, as supplemented and modified by this supplemental agreement.

Approval Recommended By:

Approved As To Form By:

Project Manager
Approved By:

City Attorney

Contractor
Approved By:

Attested To By:

City of Sacramento

City Clerk

SCOPE OF SERVICES

SHASTA PARK WATER FACILITIES

West Yost Associates (West Yost) will provide the following services to the City of Sacramento (City) for the Shasta Park Water Facilities Project (Project) final design. These services will include a Basis of Design Report, design submittals at the 60, 90 and 100 percent complete phases of design, and design support during construction. A detailed description of these services is presented below.

PROJECT DESCRIPTION

The southwest portion of the City experiences low water system pressures at times of peak water usage and would benefit with the addition of ground-level water storage and additional pumping capacity. The addition of a 4-million gallon potable water storage tank, a booster pump station, and ancillary facilities will increase the City's ability to deliver a firm and reliable water supply. The facility will be located east of Bruceville Road and immediately north of the newly constructed Shasta Park and Library.

Task 1.0 Project Management and Meetings

Major components include Project management, meetings, and quality control. These items are listed below.

PROJECT MANAGEMENT

All phases of the work will be managed under a single project management task for project execution, office administration and invoicing, coordinating work of the design team, coordinating and reporting on the progress of the Project to the City. West Yost will monitor Project progress, assign labor resources, review work products, respond to City requests and concerns, and maintain communications with City staff to ensure satisfactory completion of the work on schedule and within budget.

Meetings

Schedule a Project kick-off meeting and up to four progress or technical review meetings to facilitate dialogue between all Project team members and to review the design submittals at subsequent phases of design completion. Schedule up to six conference calls with key staff to review Project status and design issues. Prepare agendas and minutes for all meetings, and update action items and decision logs

Deliverables

Meeting agendas and minutes, memoranda, letters, updated action items log, and updated decision log.

QUALITY CONTROL/QUALITY ASSURANCE

Provide quality control and quality assurance, including setting up a system for tracking work progress and expenditures. Complete formal internal review procedures prior to submittal of the Project deliverables to provide an objective check on the adequacy of the design and related work products. A principal engineer who will not be involved in the Project on a day-to-day basis will complete this review, provide a detailed cross-reference check of the documents, check calculations, and offer constructive suggestions for design improvements.

Task 2.0 Basis of Design

This task will lay the groundwork for the detailed design. The Basis of Design Report will document the need for the Project and describe proposed improvements, design concepts, and design criteria. West Yost will meet with City staff to discuss their comments. City comments and approvals will provide the basis for the preparation of the final construction documents.

Task 3.0 Final Design

Based on the preliminary design findings and concepts, perform the detailed design, obtain design approvals, and produce the construction drawings, technical specifications, and construction estimates required to bid and construct the Project.

Technical Specifications will accompany the drawings at all design completion submittals. West Yost will prepare the Division 1 through 16 Specifications in Construction Specifications Institute format, incorporating the City's design and construction standards. West Yost will utilize the City's current contract front-end documents.

Major design items to be incorporated into the final design documents include:

- Site Layout –Develop site layout plans including tank, pump station, masonry walls, landscaping, site access, grading and paving, landscaping, fencing, and associated improvements. Preliminary concepts include ornamental iron fencing. Concrete masonry unit (CMU) walls could be provided as required for screening critical features such as the pump station or electrical equipment. Develop plans for paved surface from Kastanis Way, around tank and pump station, and other site facilities as required. Develop site piping plans including sizing, valves, connections, and associated improvements. Coordinate with the layout plans and piping arrangements for the groundwater extraction and treatment system to be provided by others.
- Develop structure and landscape forms as part of the site planning effort for the tank and pump station. Define architectural themes for the tank and support building including aesthetic considerations, and material descriptions. Architectural treatment will be designed to complement the landscaping and blend into the adjacent environment while maintaining function. Incorporate structure and landscape forms into the tank and landscaping plans. Provide architectural themes and forms for design of the support building and the groundwater extraction and treatment system to be provided by others.
- Storage Tank Design – Provide performance specifications for a pre-stressed concrete tank with a flat concrete roof. Develop plans for water storage including materials, inlet/outlet configurations, tank access, overflow, ventilation, drainage, wash down facilities, coatings,

security and a listing of pertinent AWWA design criteria for structural design. Utilize general UBC/CBC seismic parameters for design.

- Storage Tank Piping Configurations – Provided tank inlet design that promotes tank mixing and reduces potential tank short circuiting and water quality deterioration. Locate altitude valve in separate vault that controls tank filling and prevents tank overflows. Provided tank outlet pipe design to pump station that maximizes hydraulic efficiency of pumps.
- Pump Station – Provide pump station design including pump type, pump size, pump selection, and pump speed control. Develop pump station plans including pump, motor, pressure control valves, and discharge piping.
- Safety Components – Design safety design elements including fall protection, safety cages, handrails, signage, and related safety issues.
- Pipelines - The Project will include a new water, sewer, and stormdrain pipelines from the recommended storage tank site to Kastanis Way. The Project includes a new water transmission main from the recommended storage tank site to Bruceville Road.

Task 3 Deliverables

Provide 10 copies of the Basis of Design Report.

Provide a critical-path schedule from estimates of the required duration and sequence for each item of work and function to be performed; including schedule for the design, construction, and start-up of the new facilities. This schedule will depict all significant planning, design, coordination, project reviews and approvals, bidding, award, and other administrative tasks.

Prepare an opinion of probable construction cost including spreadsheets, manufacturer's quotes, and listing of assumptions and findings.

Deliverables

Provide construction drawings and specifications at the 60 percent and 90 percent complete phases of design. Provide eight sets of 11 inch by 17 inch construction drawings and specifications.

Prepare an opinion of probable construction cost in increasing levels of detail with each submittal including spreadsheets, manufacturer's quotes, and listing of assumptions and findings.

Attend review meetings with the City for each submittal, respond to comments, and make revisions accordingly as requested by the City.

Following City approval of the 90 percent complete documents, deliver to the City: 1) One set of 22 inch by 34 inch reproducible drawings, 2) camera-ready Specifications in Word format, and 3) an electronic copy of Drawings and Specifications on CD. Drawings will be in AutoCAD format with the City title block.

Provide a critical-path schedule from estimates of the required duration and sequence for each item of work and function to be performed; including schedule for the design, construction, and start-up of the new facilities. This schedule will depict all significant planning, design, coordination, Project reviews and approvals, bidding, award, and other administrative tasks.

Task 4.0 Bid Period Services

Provide engineering support services during bidding as follows:

- Attend the pre-bid meeting and respond to contractor questions during the bidding period.
- Prepare addenda to the design work for distribution by the City.

Task 5.0 Services During Construction

Design support during construction includes engineering office support, attendance at progress meetings, submittal review, response to design clarifications and requests for information, design change orders, site visits, and final inspection prior to Project acceptance. The following services will be provided as part of services during construction.

- Attend up to eight progress meetings/site visits during construction as requested by the City, on an as-needed basis, to provide construction observations and assistance, answer any questions which may arise concerning design intent, and identify any deficiencies for major items of work and other matters affecting completion of the Project.
- Assist in the review of Contractor change order requests and assist in appropriate redesign efforts leading up to change order preparation for the construction contract.
- Review submittals, shop drawings, certificates, samples, test results, methods, schedules, and manufacturer's installation instructions required to be submitted by the construction documents for conformance with the design concept and Specifications.
- Review and respond to Contractor's requests for information and clarifications during construction.
- Assist in inspection of the equipment and witness pre-operational testing by the Contractor and equipment suppliers, and provide assistance during startup and operational testing.

SERVICES NOT INCLUDED

The following services or facilities are not provided as part of the Scope of Work including:

- Hydraulic modeling of the offsite water distribution system to determine operating conditions at the connection of the Shasta Park Water Facilities to the water transmission main in Bruceville Road.
- Geotechnical investigation, soil borings, laboratory testing necessary to determine subsurface conditions and make recommendation for structural design of the building and tank.
- Design of facilities associated with the groundwater extraction and treatment system or the support building.
- Establishment of vertical and horizontal control for the tank and pump station site and offsite pipeline alignments
- Offsite utilities beyond Kastanis Way or Bruceville Road.
- Contour mapping or photogrammetric mapping.
- Location of underground utilities using field surveys and exploratory potholing. Research and surveying to field verify property lines or public rights-of-way.

- Traffic control plans.
- Soil corrosion investigation and cathodic protection systems.
- Electrical, instrumentation, security, lighting and Supervisory Control and Data Acquisition (SCADA).
- Permitting other than providing supporting plans and specifications to support City permitting activities.
- Planning and design work or preparation of contract change orders resulting from the identification of any contaminated soils, underground tanks, or archaeological artifacts.
- Environmental site assessments, biological field surveys, or other environmental studies.
- Generation of site specific seismic spectral analysis by a geotechnical engineer for structural design of the concrete tank.

COMPENSATION

The table below provides the estimated level of effort for engineering services for the City of Sacramento Shasta Park Water Facility. The compensation limit for services performed under this amendment shall not exceed \$284,100.

Project Task	Fee Estimate, \$
Project Management	30,600
Basis of Design Report	21,700
Final Design	180,800
Bid Period	9,300
Services During Construction	79,000
Total Fee Estimate	321,400
Peer Review Services (See Note)	(\$37,300)
Fee Amendment	284,100
Note: Peer Review Services for City designed facilities were previously authorized, but are not required given that the revised scope of services provides facility design by West Yost.	

SCHEDULE

Documents will be provided according to the following schedule unless an alternative schedule is mutually agreed to by West Yost and the City.

Milestone	Anticipated Completion
Basis of Design Report	6 weeks after NTP
60 Percent Design Documents	10 weeks after NTP
90 Percent Design Documents	18 weeks after NTP
Bid Documents	26 weeks after NTP
NTP: Notice to Proceed	