



Topic: **Authority Board Agenda Item 1-5**

**2020 April 22**

Subject: **Contract and Task Order for Service Area HR – Engineering Reservoir (AECOM)**

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**Requested Action:**

Consider approval of a consulting agreement with AECOM for Service Area HR – Engineering Reservoir and approve an initial task order and budget for services in the not to exceed amount of \$599,381.00 for services through August 31, 2020.

**Detailed Description/Background:**

Staff has worked with AECOM to negotiate a Consulting Services Agreement for Service Area HR – Engineering (Sites Reservoir) and developed an initial task order utilizing funds from the approved Phase 2 Amendment 1B Budget to support the Engineering tasks thru August 31, 2020. The standard form of the Authority's consultant agreement is being used with a few minor exceptions requested by the consultant which Authority legal counsel reviewed and approved.

**Prior Action:**

August 22, 2019: Approved the General Manager to enter into negotiations with AECOM.

June 20, 2019: Approved the release of the Engineering Services RFQ-19-03.

**Fiscal Impact/Funding Source:**

Sufficient funding for this task order has been assigned from the Phase 2 Amendment 1B Work Plan approved by the Authority Board of Directors and the Reservoir Committee.

**Staff Contact:**

Joe Trapasso

**Attachments:**

Attachment B: Task Order #1 and billing rates

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|----------|---------------|------------------|----------|-------------|----------------|----------|---|
| Status:  | Final         | Preparer:        | Trapasso | Phase:      | 2              | Version: | A |
| Purpose: | Staff Report  | QA/QC:           | Watson   | Date:       | 2020 April 22  |          |   |
| Caveat:  | Informational | Authority Agent: | Trapasso | Ref/File #: | 12.221-210.018 |          |   |
| Notes:   |               |                  |          | Page:       | 1              | of       | 1 |



## **Sites Reservoir Project**

# **Sites Project Authority Engineering – Reservoir Task Order**

## **Consultant: AECOM**

### **Task Order No. 1.0**

Task Order No. 1.0 provides work activities for CONSULTANT on their Consulting Agreement with the Authority for Engineering - Reservoir services for the period of performance from April 23, 2020 through August 31, 2020.

### **Scope of Services**

This task order scope of services which includes tasks, deliverables and assumptions for these tasks is provided in Attachment 1.

### **Budget**

The total not to exceed budget amount for this task order is \$599,381.00. Budgets for each individual task within the scope of services may be further refined in the early stages of the task order as the priorities for each task are further defined by the Authority Staff. The budget is provided in Attachment 2.

### **Schedule**

The period of performance for this task order is April 23, 2020 through August 31, 2020.

### **Labor Rate Table**

The CONSULTANT labor rate table for this task order is included in Attachment 4.

### **Funding Agreement**

The Sites Project is funded by several funding sources. The CONSULTANT agrees they will comply with fund reporting requirements and with supporting Program reporting requirements. As not all funding agreements have been executed; reporting requirements continue to develop. In general, record-keeping and invoicing shall comply with Generally Accepted Accounting Principles and as implemented in established Program procedures and documentation.

Random internal audits of all Service Areas will be conducted by Project Controls during the project period of performance. These audits will be conducted to review internal controls for the fair presentation of record keeping and invoicing.

The Project will be subject to state and/or federal audits besides the standing annual project audits which will be conducted by an external CPA. It is the intention of Project Controls to develop reports which will satisfy these audits, however, the CONSULTANT will be required to provide support.

## Commercial Terms

Annual salary increases shall not be related to any specific Consumer Price Index, applied summarily to all staff. Allowable increases shall be based, at this time, on individual merit increases plus GSA FAR approved overhead (where available) and 10% profit. Each firm will be allowed to submit their revised, updated rate sheet on an annual basis. The new rates should be submitted 30 days prior to the effective date of increase.

The only exception to this annual increase restriction is a merit increase related to the acquisition of Professional Engineer licensure or acquisition of other professional, technical licensure related to the work they are providing under this task order. The Program will honor salary increases related to acknowledgement of competency in the form of professional, technical licensure based on their effective date.

The Authority will reimburse non-labor/other direct cost only at the CONSULTANT's actual cost

This Task Order, incorporating the above Attachments and Additional Contract Documents, is hereby executed by duly authorized representatives of the parties.

**CONSULTANT**

**Sites Project Authority**

By: \_\_\_\_\_ By: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

## **Attachment 1**

### **Scope of Services for Task Order HR01 – Initial Services for Dams and Reservoir Engineering**

This scope of services involves initial Conveyance Engineering efforts needed to support the Sites Project Authority (Authority) through the completion of work from March 30, 2020 through August 31, 2020. In general, this scope includes activities in support of the scope outlined in the Authority's Request for Qualifications (RFQ) No. 19-03 and the Statement of Qualifications (SOQ) prepared by CH2M HILL.

#### **BACKGROUND**

Engineering efforts will be undertaken to support the environmental impact assessment of the Preferred Project identified through the value planning process.

Work will include completing feasibility level designs of project features, developing feasibility level drawings of project features for use in estimating quantities and assessing impacts, assessing haul routes, identifying construction activities and schedules and identifying key operation and maintenance activities. The effort will also include completing real estate efforts (by others) with respect to obtaining access and assessing potential alignments and associated impacts. The work will be completed at a level of detail to support the environmental impact evaluations, and to support the future development of a Class IV cost estimate.

Work will be performed by the HC (CH2M HILL) and HR (AECOM) service providers through separate contracts with the Authority. The division of the feasibility level designs of facilities will reflect the intent of Table 6.3: Facilities By Engineering Service Area (HC vs HR) and Planned Engineering Role from the Sites Project Authority Request for Qualifications, Engineering Services RFQ No. 19-03, July 5, 2019. It should be noted that a number of the facilities in Table 6:3 are no longer relevant.

#### **SCOPE OF WORK FOR HR SERVICE PROVIDER:**

##### **Task HR01 — Project Coordination**

###### **Task HR01.1 - Study Team and Agency Meetings**

Consultant will coordinate with the Project Integrator for a project kick off meeting with the Authority and the HC and HR service providers. At the meeting, the scope of work, functional organization, QCAP, deliverables schedule will be discussed.

Consultant will coordinate and attend bi-weekly study team meetings with the Authority to discuss project progress and issues that may affect project feasibility design or schedule. Appropriate consultant team members will attend as needed. Consultant will document project meetings and distribute meeting notes to appropriate project team members. Resolution will be reached on the technical aspects of the project.

Consultant will coordinate with the Authority, other consultant teams, agencies and stakeholders throughout the duration of the project.

### **Task HR01.2 - Work Group, Reservoir Committee, and Authority Board Meetings**

Consultant will prepare for and attend monthly work group, Reservoir Committee and Authority Board meetings.

## **Task HR02 — Engineering Support for Project Description of Preferred Project from Value Planning**

### **Task HR02.1 - Coordinate with integration team to identify CADD and GIS standards.**

Consultant will coordinate with the integration team to identify CADD and GIS standards. Consideration will be given to effectively use the CADD and GIS products developed for the previous EIR/S and feasibility design efforts. The process for efficiently converting the CADD drawings to GIS will be established.

### **Task HR02.2 - Coordinate with the environmental team to confirm the alternatives for the EIR/S and related engineering support.**

Consultant will coordinate with the environmental team to confirm the alternatives for the EIR/S and related engineering support. At this time it is understood that the alternatives will consist of the following: 1. The Preferred Project Identified through the value planning process; 2. Alternative A as presented in the Draft Environmental Impact Report/Environmental Impact Statement (Authority, 2017) and the Reclamation feasibility study; and 3. A Modified Alternative 1 or 2 reflecting different operation.

### **Task HR02.3 - Coordinate with operations team to finalize the storage and conveyance capacities for use in feasibility design.**

Operations modeling will be ongoing. Consultant will coordinate with operations team to finalize the storage and conveyance capacities for use in feasibility design. The operations team will provide the capacities that will be serve as the basis of design for storage and conveyance facilities.

### **Task HR02.4 - Assist Authority in Obtaining Information from Reclamation**

The HR service provider will develop a list of information and materials needed from Reclamation to support the Authority's project description and feasibility report so that the Authority can coordinate with Reclamation to determine approach to leverage material developed for Reclamation's feasibility study.

### **Task HR02.5 - Prepare Project Base Map for Feasibility Design**

The HC service provider will take the lead on developing the digital aerial and topographic base map using best available information. The HR service provider will coordinate with and support HC Contract to prepare project base. The HR service provider will provide the HC Contractor with topography used for their previous activities.

### **Task HR02.6 - Prepare basis of feasibility design**

Consultant will develop a Basis of Feasibility Design technical memorandum. The Basis of Design technical memorandum will describe the accepted project design criteria and considerations that will be carried through the feasibility design of key project features. Development of the basis of feasibility design will give appropriate consideration to the criteria employed for the Reclamation feasibility study.

### **Task HR02.7 - Conduct field visit of key project facilities.**

Consultant will conduct field visit of key project facilities. The purpose of the visit will be to observe site characteristics and constraints that may influence the feasibility level design.

### **Task HR02.8 - Coordinate with real estate team to identify needs and costs**

Consultant will coordinate proposed alignments and site access with the Authority and the real estate team.

### **Task HR02.9 - Complete feasibility level design, documentation and project description**

Consultant will complete the feasibility level designs and supporting documentation. These would include the following evaluations for the respective key project features for the HR service provider:

- i. Geology and Seismicity – The HR service provider will coordinate the Project Geology and Seismicity TM with input and review from the HC Contractor; addresses design ground motion parameters and potential for fault offset based on available information
- ii. Design Basis TM for Main and Saddle Dams – addresses dam foundation objectives, excavations, embankment materials, stability, groundwater/dewatering excavations, and recommends geotechnical investigations
- iii. Design Basis TM for I/O tower and tunnels – addresses geotechnical, hydraulic and structural disciplines for the tunnel excavation, lining, initial support, and recommends geotechnical investigations
- iv. Funks and Stone Corral Creeks TM – describes the effects of emergency reservoir releases and the long-term releases at Funks and Stone Corral Creeks
- v. Diversion TM – describes the diversion plan during construction
- vi. Roads and Bridge TM – discusses basis for selection of layout of roads and the bridge
- vii. Mechanical and Electrical TM for I/O tower

### **Task HR02.10 – Develop CADD drawing package**

Develop CADD drawings of reservoir, main and saddle dams, I/O tower, I/O tunnels, roads, and bridge features with sufficient details to support Class 4 cost estimates.

## **Task HR98 — Project Management and Coordination**

### **Task HR98.1 - Project Controls**

Consultant will manage the design contract scope, schedule and budget for all project activities. Contract management will follow the Authority's required controls, and will provide monthly progress reports that document project activities and update the project schedule and budget status.

### **Task HR98.2 - PMP and QMP**

Consultant will develop a draft and final Project Guide that includes organization, scope of services, schedule, budget, communications, document control, cost controls, invoicing and reporting.

Consultant will prepare a draft and final Quality Control and Assurance Plan, which will provide the policies and specific actions that will be taken to confirm that deliverables and supporting documents are complete, and conform to Sites Project standards.

## Attachment 2 Fee Table

| Task ID          | Task Name   | Fee                 |
|------------------|---|---------------------|
| <i>HR01</i>      | <i>Project Coordination</i>   | \$7,339.00          |
| <i>HR02</i>      | <i>Engineering Support for Project Description of Preferred Project</i> | \$567,000.00        |
| <i>HR02.1</i>    | <i>CADD and GIS Standards</i>   | \$7,505.00          |
| <i>HR02.2</i>    | <i>Confirm EIR/EIS Alternatives &amp; Engineering Support</i>           | \$991.00            |
| <i>HR02.3</i>    | <i>Finalize Storage and Conveyance Capacities</i>                       | \$991.00            |
| <i>HR02.4</i>    | <i>Obtain Information from Reclamation</i>                              | \$4,165.00          |
| <i>HR02.5</i>    | <i>Prepare Project Basemap</i>  | \$8,123.00          |
| <i>HR02.6</i>    | <i>Prepare Basis of Feasibility Design</i>                              | \$8,843.00          |
| <i>HR02.7</i>    | <i>Conduct Field Visits</i>   | \$1,191.00          |
| <i>HR02.8</i>    | <i>Real Estate Coordination</i>   | \$3,965.00          |
| <i>HR02.9</i>    | <i>Complete Feasibility Level Design</i>                                | \$212,427.00        |
| <i>HR02.10</i>   | <i>Develop CADD Drawing Package</i>                                     | \$318,799.00        |
| <i>HR98</i>      | <i>Project Management &amp; Coordination</i>                            | \$25,040.00         |
| <b>Total Fee</b> |   | <b>\$599,379.00</b> |



## Attachment 4

| HR Service Provider Staff Rates |                                 |           |
|---------------------------------|---------------------------------|-----------|
| Forrest, Mike                   | Contract Manager                | \$ 272.56 |
| Herrin, Jeff                    | TO Manager                      | \$ 247.83 |
| Owens, Molly                    | Senior Project Controls         | \$ 193.02 |
| Henderson, Nate                 | Project Controls                | \$ 120.75 |
| Smith, Mike                     | Principal Civil                 | \$ 263.11 |
| Malyala, Nagesh                 | Senior Civil                    | \$ 188.00 |
| Nanduri, Rekha                  | Mid Civil                       | \$ 143.61 |
| Remar, Alex                     | GIS Lead                        | \$ 132.36 |
| L'Ecluse, Rion                  | CAD Lead                        | \$ 108.93 |
| Aurangabadkar, Shree            | Scheduler                       | \$ 93.95  |
| Barnes, Joe                     | Principal Civil                 | \$ 209.13 |
| Kazmi, Syed                     | Principal Bridge                | \$ 339.61 |
| Michael, Howard                 | Principal Roads                 | \$ 322.42 |
| Doctolero, Vanessa              | Mid Civil                       | \$ 169.35 |
| Aviles, Sergio                  | Senior CAD                      | \$ 204.44 |
| Staley, Dave                    | Senior Electrical               | \$ 257.93 |
| Young, Tom                      | Senior Mechanical               | \$ 195.19 |
| Meymand, Philip                 | Principle Geotechnical Engineer | \$ 231.82 |
| Quintrall, Tony                 | Senior Civil                    | \$ 167.31 |
| Zarchi, Idit                    | Senior Civil                    | \$ 140.43 |