



Item #3

**Austin Water Utility
CITY OF AUSTIN
RECOMMENDATION FOR COUNCIL ACTION**

**AGENDA DATE: 4/6/2006
ITEM NO:**

Subject: Authorize negotiation and execution of an amendment to the professional services agreement with CAMP DRESSER AND MCKEE, INC., 12357 A. Riata Trace Parkway, Suite 210, Austin, Texas, 78727, for continued engineering services and public involvement in the conceptual design recommendations for the Water Reclamation Initiative - Central - Phase IB elevated storage tank, in an amount not to exceed \$997,692 for a total agreement not to exceed \$1,702,692.

Amount and Source of Funding: Funding in the amount of \$997,692 is included in the Fiscal Year 2005-2006 Capital Budget of the Austin Water Utility.

Fiscal Note: A Fiscal Note is attached.

Requesting Department: AWU

For More Information: Dan Pedersen, 972-0074; Yvonne Gil Vallejo, 972-0224; Denise Avery, 972-0104

Prior Council Action: 10/28/99 Initial selection of Camp Dresser & McKee, Inc. for final design and construction phase services.

Boards and Commission Action: Recommended by Water and Wastewater Commission.

Purchasing Language:

MBE/WBE: 29.82% MBE and 29.23% WBE subcontractor participation to date.

This amendment provides additional funding to the professional services agreement to continue with the design elements of the Water Reclamation Initiative Phase 1-B. Design elements include a continuation of the 24-inch reclaimed pipeline from Berkman Drive to IH-35, design of a reclaimed elevated water storage tank and improvements to the existing pumps for the reclaimed water system located at the Walnut Creek Wastewater Treatment Plant.

Phase 1-A of the Water Reclamation Initiative project is the continuation of the City of Austin Water Utility Department plan to develop a reclaimed water system in the Northeast/Central area of the City. Phase 1-A components currently in place are the reclaimed water line from the Walnut Creek Wastewater Treatment Plant to the intersection of 51st Street and Manor Road and associated pumping and storage facilities at the Walnut Creek plant. Reuse water is supplied to the First Tee Complex and to Morris Williams Golf Course.

The current phase of the Water Reclamation Initiative is Phase 1-B. It includes a pipeline from the intersection of 51st Street and Manor Road to IH-35 and a change from ground storage tanks and pump station initially located on the Robert Muller Redevelopment (RMMA) property at the intersection of 51st and IH-35. Due to the location of prime commercial land the location was moved south to the southeast corner of RMMA property along IH-35. Reevaluation of the hydraulic calculations for this site determined that the tank would need to be elevated. Considering the minimal buffer between the tank and the neighborhood, the Utility decided to move the elevated tank to the Fire Maintenance Facility on East 51st Street which is City owned property. This site offers a minimum of 780 feet of distance to the nearest resident.

Goals of the Water Reclamation Initiative (WRI) Phase 1-B are to serve the redevelopment of (RMMA) and adjacent service area including Bartholomew Park and the Combined Transportation Emergency Communication Center (CTECC) as well as provide infrastructure for expansion to Central Austin. The RMMA redevelopment will include irrigation, mechanical cooling water uses and other uses for reclaimed water. An integral ingredient of this system is the construction of an elevated reuse water storage tank.

Through a series of public meetings the 51st Street Water Tower Project Advisory Committee (PAC) was formed with representatives from the surrounding neighborhoods associations. Bi-weekly meetings have been held beginning July 18, 2005 to date. The PAC developed a Tank Design Program &&&&& Process document and a Definitions of Acceptable Tower Types document. The Utility has agreed through the Professional Services Agreement with CDM to add Cotera-Reed Architects to the design team. The scope of work for Cotera-Reed Architects will be to assist the PAC in formalizing a recommendation based on their Tank Design Program &&&&& Process and Definition of Acceptable Tower Types documents. An elevated water tower design will incorporate the components of the PAC and meet the budget, security and operational requirements of the Utility. Cotera-Reed Architects will remain part of the design team throughout the construction phase.

ACTION, DESCRIPTION, AMOUNT

10/25/99, Professional Services Agreement, \$ 705,000.00

Proposed, Supplemental Amendment, \$ 997,692.00

Total: \$1,702,692.00

For M/WBE goal information, please see separate M/WBE attachment.

CIP FISCAL NOTE

DATE OF COUNCIL CONSIDERATION:
WHERE ON AGENDA:
DEPARTMENT:

03/23/06
Resolution
Austin Water Utility

DESCRIPTION:

Authorize negotiation and execution of an amendment to the professional services agreement with CAMP DRESSER & MCKEE, INC., 12357 A. Riata Trace Parkway, Suite 210, Austin, Texas, 78727, for continued engineering services and public involvement in the conceptual design recommendations for the Water Reclamation Initiative - Central - Phase IB elevated storage tank, in an amount of \$997,692.00 for a total agreement not to exceed \$1,702,692.00.

FINANCIAL INFORMATION:

Parent Project Name:	Wastewater Unfunded Future
Project Authorization:	2005-06 Approved Capital Budget
Funding Source:	Commercial Paper
Number:	4570 237 2017

Current Appropriation	\$ 575,217,293.00
Unencumbered Balance	158,664,200.16 *
Amount of This Action	<u>(997,692.00)</u>
Remaining Balance	<u>\$ 157,666,508.16</u>
Current Available Balance	\$ 188,610,795.42
Less Outstanding Commitments	<u>(29,946,595.28)</u>
Estimated Unencumbered Balance	<u>\$ 158,664,200.16 *</u>

Utility Finance:



David Anders, Utilities Finance Manager

Date:

3/8/06

REF. # 4570 237 8705

Water Reclamation Initiative Phase 1B

Scope of Services

December 2005

Phase 1 of the Water Reclamation Initiative project is the continuation of the City of Austin Water Utility's plan to develop a reclaimed water system in the Northeast/Central area of the city. Phase 1 includes service to Morris Williams Golf Course, the redevelopment of the Robert Mueller Municipal Airport (RMMA) site, and adjacent areas. The RMMA redevelopment will include irrigation, mechanical cooling water, and other uses for reclaimed water.

The reclaimed water supply for the RMMA redevelopment is Phase 1B of the Water Reclamation Initiative for the Northeast/Central system. It includes a pipeline in 51st Street from Manor Road to I-35, pump station improvements at the Walnut Creek Wastewater Treatment Plant, appropriate elevated storage facilities, instrumentation and control, and neighborhood buffering. This project is to design and construct the Phase 1B facilities. The Phase 1B facilities will also include provision for expansion of the service area to the west of I-35.

The Water Reclamation Initiative Phase 1B will be constructed in several phases. The separate phases consist of the following:

- Pump station improvements at Walnut Creek Wastewater Treatment Plant
- Elevated storage tank, and
- 24-inch pipeline in 51st Street from Berkman Drive to IH-35.

Professional engineering services are required to perform detailed design of the Phase 1B reclaimed water facilities. A professional engineering Scope of Services for the Phase 1B project is provided below.

Task 1 – Final Design

The WRI Central Phase 1B Preliminary Engineering Report Addendum was submitted to the Austin Water Utility on June 27, 2005. As a follow-up to the PER the tank site and the type of tank will be finalized through a series of neighborhood and public participation meetings. The CDM project team will present 3 tank alternatives to the Public Advisory Committee using photo-simulations to scale on the selected tank site. The CDM project team will assist the City in presentations to selected review Committees for a maximum of 4 review meetings.

During the Final Design Phase of the project, detailed drawings and specifications will be prepared suitable for bidding and constructing the project. The design will include plan and profile of the proposed pipeline, detailed

drawings of the storage tank; and associated electrical instrumentation and control system design. Also included will be required topographic mapping and route surveying, geotechnical investigations, landscape design, and site development permitting as further described in the following sub-tasks:

1.1. Prepare Design Drawings

Prepare design drawings for 60% review, 95% review and final drawings for bidding. The drawings will include site/civil layouts for the tank site, and mechanical, electrical, instrumentation and control for the tank. The drawings will also include the plan and profile sheets for the pipe line design from Berkman Dr. to IH-35. Site plan and development drawings will be developed for submittal to the City of Austin. The drawings will be produced electronically using Auto CADD 2002.

1.2 Prepare Specifications

Prepare specifications for 60% review, 95% review and final specifications for bidding. The specifications will be formatted in general compliance with the 16-Division format of the Construction Specification Institute (CSI). The "Front-End" or Series "0" documents(i.e., Invitation to Bid, Instructions to Bidders, General Terms and Conditions, Supplementary Terms and Conditions, Bond Requirements) will be COA standard issue, tailored as required, to fit Project conditions.

1.3 Estimated Construction Costs

CDM will provide an estimated construction cost at the 60% deliverable, 95% deliverable and the final plan and specification deliverable.

1.4 Quality Review

CDM will conduct internal reviews including cross checking and a bid ability/constructability review.

1.5 Design Review Meetings

CDM will conduct with the COA staff design review meetings at the 60% and 95% review milestones.

1.6 Project Management

CDM will coordinate the activities of all CDM Project Team members.

CDM will facilitate communication between the COA and CDM Project Team members.

CDM will coordinate meetings between Project Stakeholders.

CDM will participate in public information meetings. It is anticipated that there will not be more than four (4) public meetings.

Task 2 – Bidding Assistance

Bid phase services will begin upon bid advertisement of the project. Bidding services will include assisting the COA Project Team with the bidding activities associated with this project. Bid phase services will consist of the following:

- **Issue drawings and specifications for bid and maintain a plan holder's list**
- **Attend a pre-bid conference**
- **Prepare and issue addenda to the drawings and specifications**
- **Respond to contractor and vendor inquiries during the bid phase.**
- **Provide a recommendation of bid award.**
- **Produce conformed drawings and specifications which incorporate bid phase addenda.**
- **Provide six sets of conformed drawings and specifications to the City of Austin.**

Task 3 – Construction Phase Services

The construction services to be provided as part of this phase of the project include the following:

- **Attendance at the pre-construction conference**
- **Attendance at project construction meetings**
- **Project inspection review of submittals**
- **Assistance with change orders, and**
- **Project completion inspections.**

Project inspection will be provided by All Points Inspection Services, Inc. Project inspection is planned for 4-hours per day (including travel) for a 12-month duration. It is anticipated that the construction schedule for the project will take approximately 15-months with some downtime by the contractor for mobilization and scheduling of construction crews. This phase of services also includes providing project record documents at the completion of the project. The project record documents will be produced based on the mark-ups received from the contractor. Also included in this phase of services is project management and public information involvement. It is anticipated that

there will not be more than six (6) public information meetings during this phase of the project.

Task 4 – Additional Phase Services

Additional services to be provided by the project include the following:

- Preparation and delivery of record drawings of the WRI Phase 1A project
- Investigation and preliminary analysis with regard to the leaking reclaimed water storage tank at the Walnut Creek Wastewater Treatment Plant including associated surveying services.
- Attending not more than four (4) meetings and reviewing documents associated with the reclaimed water storage tank

It is important to understand the limitations that have imposed on the design phase services in development of the engineering fee for this project. Some of the items listed below may become necessary for the completion of the project. However, the project team is currently participating in the public involvement process and as yet do not know the full impact of that process. Specifically, our proposal does not include;

- Traffic impact analysis
- Site Sign Plan
- Water quality controls, It is assumed the Utility will pay "Fee in lieu of" constructing structures
- Storm water detention structures, it is assumed that the Utility will participate in regional detention structures outside of the tank site
- Elevated tank design, tank will be designed by the construction contractor (tank supplier)
- Site Land Zoning
- Land Platting
- Meetings / presentations for City Code variances / waivers
- Site irrigation plan
- Endangered species field survey
- Archeological field survey
- Process Instrumentation & Control Diagrams

Due to the uncertainty of the labor that may be required, an "Owners Contingency" has been established in the fee proposal. The contingency will be used only as directed by the City.

No. 030106-A

Authorize negotiation and execution of an amendment to the professional services agreement with CAMP DRESSER & MCKEE, INC

March 1, 2006

REGULAR MEETING

VOTE: 6-0-0-3

Motion made by: Leslie Pool

Commissioners Consenting: Glen Coleman, Leslie Pool, Chien Lee, Reynaldo Gonzalez, Jr.,
Roger Chan, Karen Friese

Commissioners Dissenting:

Commissioners Abstaining:

Commissioners Absent: Michael Warner, Laura Raun, Cheryl Scott-Ryan

Authorize negotiation and execution of an amendment to the professional services agreement with CAMP DRESSER & MCKEE, INC., 9111 Jollyville Road, Suite 105, Austin, Texas 78759, for continued engineering services and public involvement in the conceptual design recommendations for the Water Reclamation Initiative - Central - Phase I-B elevated storage tank, in an amount of \$914,620.00 for a total agreement not to exceed \$1,619,620.00.



Chien Lee, P.E., Vice Chairperson
Water and Wastewater Commission

3-1-06

Date

Subconsultant participation stated in the original agreement was 5.0% African American, 6.0% Hispanic, 2.0% Native/Asian American and 28% WBE. Participation for this amendment:

NON M/WBE TOTAL-PRIME

CAMP DRESSER & MCKEE, INC., 9111 Jollyville Road, Suite 105, Austin, TX 78759. Total Participation:

NON M/WBE TOTAL – PRIME	\$454,963.00	49.74%
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Camp Dresser & McKee, Inc., Austin, TX	\$454,963.00	49.74%
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MBE TOTAL – SUBCONTRACTORS	\$234,363.00	25.62%
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MA SUBTOTAL	\$43,769.00	4.79%
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Gupta & Associates (site security design)	\$43,769.00	4.79%
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MB SUBTOTAL	\$87,100.00	9.52%
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All Points Inspection Services, Inc (elevated storage tank construction inspection services)	\$87,100.00	9.52%
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MH SUBTOTAL	\$103,494	11.32%
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Jaster-Quintanilla & Associates, Inc., Austin, TX (structural enrg. for design of booster pump station & storage facility components of RMMA)	\$20,000	2.19%
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Garcia Design, Inc., Austin, TX (landscape design within City of Austin land development requirements)	\$33,494	3.66%
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Cotera & Reed Architects (performing elevation storage tank Architectural design and support services, including public participation in the design process)	\$50,000	5.47%
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WBE TOTAL – SUBCONTRACTORS	\$183,133.00	20.02%
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(FR) Jack H. Holt & Associates, Inc., Austin, TX (geotechnical investigations for design of storage facilities & pump station, & for trench safety design for pipeline)	\$17,928	1.96%
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(FR) Hicks & Company, Austin, TX (investigation of wetlands, endangered species habitat & cultural resources)	\$ 6,290	0.69%
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(FR) Compugraphics, Wimberley, TX (CADD services, GIS & mapping)	\$28,640	3.13%
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(FR) Strategic Communications, Austin, TX (public health acceptance, public information program)	\$51,235	5.60%
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(FR) Axiom Engineering (pipeline, civil engineering and site permitting)	\$79,040	8.64%
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NON-M/WBE TOTAL – SUBCONTRACTORS	\$42,161.00	4.61%
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Surveying & Mapping, Inc., Austin, TX (performing topographic & right-of-way surveys for pipeline route & topographic survey for storage facility & booster pump station site at RMMA)	\$42,161.00	4.61%
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Overall participation including this amendment is as follows: 10.48% African American, 12.1% Hispanic, 7.3% Native/Asian American, 29.2% WBE, and 2.6% Non-M/WBE subcontractors.