

DATE: February 16, 2010

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Authorization for the City Manager to Execute a Technical Services Agreement for Drafting Services for the Aqueducts Record Drawing and Mapbooks Update Project

RECOMMENDATION

That Council adopts the attached resolution authorizing the City Manager to execute a Technical Services Agreement with ValueCAD, LLC for computer aided design (CAD) services for the Aqueducts Record Drawing and Mapbooks Update Project in an amount not to exceed \$375,000.

BACKGROUND

The City currently has six aqueducts: the Mission 24", the Newark 42", the Hesperian 33", the Industrial 24", the Winton 30", and the Skywest 36". The oldest aqueduct, the Mission 24", was constructed in the late 1940s and the newest, the Skywest 36", was constructed in 2007. Over the years, there have been many improvements, modifications made to the aqueducts and the land around them. While the City has record drawings from numerous projects that affected or were in close proximity to a City aqueduct, the City's Aqueducts Record Drawings typically do not reflect these changes.

The City has a master set of CAD drawings for the water system and another for the sewer collection system. In the past, City staff has used the computer software, AutoCAD Map, to update the master drawings when new water mains or sewers are installed. The water and sewer system elements (e.g. pipes, manholes, valves, etc.) have attributes associated with them such as diameter, material type, and year installed. Due to staffing and workload issues, the drawings have not been updated in several years and the mapbooks were last published for field crews' use in 2005.

The project has several purposes: 1) to update the Aqueduct Record Drawings with information and alignments documented in the City's applicable record drawings created after the aqueducts were constructed, including current improvements, utilities, parcel, and topographic data; 2) to update the water and sewer mapbooks and system maps so the City can publish new mapbooks for the Public Works field crews to use when repairing and maintaining the water and sewer systems, and for

general use by City staff; and 3) to modify and enhance the format of the data in the water and sewer AutoCAD drawings so that updates may easily be made to the Public Works GIS maps.

DISCUSSION

On December 17, 2009, Requests for Proposals to provide CAD services for the Aqueducts Record Drawing and Mapbooks Update Project were sent by both mail and email to eight (8) consultants, who were qualified to perform the work and indicated an interest in receiving it. On January 19, 2010, only one proposal was received, and it was from ValueCAD, LLC. Due to the lack of proposals, City staff contacted the other consultants to inquire why they did not submit proposals: Two of the consultants responded that they had insufficient time to prepare a proposal due to key staff being on vacation; two other consultants responded that they were only interested in doing half of the scope and not the other (Aqueducts vs. Mapbooks); and one consultant responded that they had sufficient local projects in Oregon and could not justify traveling to Hayward for project meetings.

In addition, staff submitted questions to the references provided in ValueCAD's proposal. The question topics included scheduling, cost (relative to other consultants and estimates), staffing level, and general level of satisfaction with the finished product and of ValueCAD. Of the four responses received (City of Walnut Creek; San Francisco Dept. of Public Works; Port of Portland, OR; and Clark County, WA), the comments were unanimous that ValueCAD stays on schedule and makes deadlines; their costs are reasonable compared to other consultants; they complete a scope of work for the originally agreed to cost; project staffing is adequate and staff is very competent; and they typically meet or exceed expectations.

Staff believes that ValueCAD is qualified to perform the scope of work based on the above comments, its previous work for the City (e.g., 1993 Conversion of Utility Maps to AutoCAD, 2003 Upgrade of Landbase and Utility Mapping Systems to GIS), and its work for other agencies with scopes similar to this project (e.g., City of Napa, City of Milpitas, City and County of San Francisco, and City of Vancouver, WA). In addition, ValueCAD's estimated project cost breakdown and schedule appear reasonable and within the range anticipated by staff. Therefore, staff recommends authorization for the City Manager to execute a technical services agreement with ValueCAD for CAD services for the Aqueducts Record Drawing and Mapbooks Update Project for an amount not to exceed \$375,000.

ECONOMIC IMPACT

Both more accurate Aqueduct Record Drawings and improved Water and Sewer Mapbooks will reduce the possibility of damage to utilities in the field, which delays projects and increases their costs.

FISCAL IMPACT

The estimated project costs are as follows:

CAD Services – Consultant	\$ 375,000
Project Administration – City Staff	<u>15,000</u>
Total:	\$ 390,000

The FY 2010 Capital Improvement Program (CIP) includes \$390,000 for the Aqueducts Record Drawing Update in the Water System Replacement Fund.

PUBLIC CONTACT

None.

SCHEDULE

The estimated schedule for this project is summarized as follows:

Notice to Proceed to Consultant	March 2010
Completion of Aqueducts Record Drawings,	October 2010
Completion of Mapbooks	December 2010

Prepared by: Alex Ameri, Deputy Director of Public Works

Recommended by: Robert A. Bauman, Director of Public Works

Approved by:



Gregory T. Jones, City Manager

Attachments: Attachment I – Draft Resolution

DRAFT

HAYWARD CITY COUNCIL

RESOLUTION NO. 10-_____

Introduced by Council Member _____

RESOLUTION AUTHORIZING THE CITY MANAGER TO
NEGOTIATE AND EXECUTE A TECHNICAL SERVICES
AGREEMENT WITH VALUECAD FOR CAD SERVICES
FOR THE AQUEDUCTS RECORD DRAWING AND
MAPBOOKS UPDATE PROJECT

BE IT RESOLVED by the City Council of the City of Hayward that the City Manager is hereby authorized and directed to negotiate and execute an Technical Services Agreement with ValueCAD for CAD services for the Aqueducts Record Drawing and Mapbooks Update, Project No. 7037, in an amount not to exceed \$375,000, in a form to be approved by the City Attorney.

IN COUNCIL, HAYWARD, CALIFORNIA _____, 2010

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward