



CITY COUNCIL AGENDA REPORT

MEETING DATE: OCTOBER 18, 2004

ITEM NUMBER:

SUBJECT: PROFESSIONAL ENGINEERING SERVICES FOR THE DESIGN OF ABUTMENTS AND APPROACHING STRUCTURES FOR A PRE-FABRICATED STEEL BRIDGE OVER PLACENTIA AVENUE AT FAIRVIEW PARK.

DATE: OCTOBER 7, 2004

FROM: PUBLIC SERVICES DEPARTMENT/ENGINEERING DIVISION

PRESENTATION BY: WILLIAM J. MORRIS, DIRECTOR OF PUBLIC SERVICES

FOR FURTHER INFORMATION CONTACT: ERNESTO MUNOZ, CITY ENGINEER, (714) 754-5343

RECOMMENDATION:

1. Award a contract to S. Gordin Structural Design & Engineering Services (SGE), 15351 Normandie Ave., Irvine, CA 92604, in an amount not to exceed \$51,386, for design services.
2. Authorize the Mayor and the Deputy City Clerk to execute the Professional Services Agreement.

BACKGROUND:

Fairview Park consists of 208 acres of open space currently used for walking, biking, jogging, flying model airplanes, model railroading, quiet contemplation of the surrounding habitats, interpretation of the archeological and biological resources, and picnicking. The general focus of the park is for passive uses. The passive uses of the park are derived from the need to protect the unique archeological and biological resources, and the community's expressed desire for such a park.

The City initiated the process of drawing a master plan for the park in 1996. A consultant team composed of archeologists, architects, engineers, planners and biologists, along with committees and community groups, City staff, and the City Council, completed the present master plan for the park 18 months later. The Fairview Park Master Plan was adopted by City Council in March 1998, and was revised in February 2001.

One of the components of the Fairview Park Master Plan identified the need to construct a bridge over Placentia Avenue to connect the east and west portions of the park. The attached Master Plan drawing (Attachment 1) shows the proposed location of the bridge. The multipurpose trail on either side of the bridge is being considered under a separate project and is scheduled to be advertised for construction in November 2004.

The Parks and Recreation Commission reviewed selected concepts and approved the concept (Attachment 2) that most appropriately fits the motif of the park on June 23, 2004.

ANALYSIS:

The proposed bridge is to be designed to meet the guidelines of the Fairview Park Master Plan, the City of Costa Mesa Master Plan of Bikeways, as well as the OCTA Commuter Bikeways Strategic Plan. The structural components will be designed to meet Caltrans and AASHTO standards, as well as ADA accessibility requirements.

Staff and the Parks and Recreation Commission evaluated a variety of bridge designs including wood, post-tension concrete, and pre-fabricated steel. The selected option is a bow-truss type of structure (Attachment 2) manufactured out of weathering steel spanning from top of slope to top of slope. This style is preferred because it not only blends with the general motif of the park, but it also makes a statement from any point of view as to the areas being connected.

The scope of work for this contract includes all work necessary to develop a set of construction documents including field surveying, structural design of the abutments and approaching structures, grading, traffic control, and design parameters for design and manufacture of the bridge.

Staff advertised the project for the design phase on August 11, 2004, and received two proposals. A panel of City staff members from the Public Services Department evaluated the proposals submitted by the consulting firms.

Staff has carefully reviewed the proposals for engineering services and finds that SGE is well qualified to perform the professional services. Proposals were reviewed for compliance with the City's Request for Proposals; project understanding and scope of work; related experience; experience of project team; and associated issues. During the evaluation process, SGE presented their firm as having a thorough understanding of the project; and demonstrated substantial experience and technical ability to perform the outlined scope of work.

ALTERNATIVES CONSIDERED:

The alternative to this Council action would be to not award a design services contract for the stated project and cancel the project. This option will forfeit the Measure "M" Transportation Demand Management (TDM) Program grant already approved for this project.

FISCAL REVIEW:

Funding for this contract is available from unencumbered Fairview Park allocations. The City received approval for a Measure "M" TDM grant in the amount of \$193,880 (\$20,000 for design and \$173,880 for construction) or approximately 43 percent of the total estimated cost. The Measure "M" TDM grant funds have been advanced for construction for this fiscal year by the Orange County Transportation Authority (OCTA), the administering agency.

LEGAL REVIEW:

The City Attorney has reviewed and approved the attached Professional Services Agreement (Attachment 3) as to content and form.

CONCLUSION:

It is recommended that the City Council award the design services contract to SGE in an amount not to exceed \$51,386; and authorize the Mayor and the Deputy City Clerk to execute the Professional Services Agreement.

ERNESTO MUNOZ
City Engineer

WILLIAM J. MORRIS
Director of Public Services

MARC R. PUCKETT
Director of Finance

ATTACHMENTS: 1 - [Fairview Park Master Plan](#)
 2 - [Proposed Bridge](#)
 3 - [Professional Services Agreement](#)

DISTRIBUTION: City Manager
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 Deputy City Clerk
 Parks Project Manager
 Staff
 File

FairviewParkBridgeDesignContractReport

10-1-04

4:30 p.m.