



Agenda Item No. \_\_\_\_\_

File Code No. 530.04

# CITY OF SANTA BARBARA

## COUNCIL AGENDA REPORT

**AGENDA DATE:** October 18, 2011

**TO:** Mayor and Councilmembers

**FROM:** Engineering Division, Public Works Department

**SUBJECT:** Contract For Design Peer Review Of The Cabrillo Boulevard Bridge Replacement Project

### RECOMMENDATION:

That Council authorize the Public Works Director to execute a City Professional Services contract with Drake Haglan and Associates in the amount of \$28,800 for engineering services for a peer review of the Cabrillo Boulevard Bridge Replacement Project design, and authorize the Public Works Director to approve expenditures of up to \$2,880 for extra services of Drake Haglan and Associates that may result from necessary changes in the scope of work.

### DISCUSSION:

#### BACKGROUND

On March 27, 2007, Council awarded a contract for the final design of the Cabrillo Boulevard Bridge Replacement Project (Project). The Project involves bridge replacement of the existing structurally insufficient bridge over Mission Creek at Cabrillo Boulevard. The new four-vehicular traffic lane bridge will have wider sidewalks and improved hydraulic capacity to pass flood waters.

The Project's final design is virtually complete. The Project is in the right of way phase including property acquisition. A peer review of design, construction sequencing, and phasing is requested in an effort to minimize temporary impacts on surrounding vehicular, bicycle, and pedestrian flow during construction. Minimizing temporary impacts to circulation is crucial, as the Project is located on a main thoroughfare, in close proximity to the beach, Stearns Wharf, and the surrounding commercial, hotel, and recreational facilities. The bridge construction phasing will be studied for opportunities to utilize accelerated bridge construction techniques. The peer review will also focus on bridge and retaining wall design, construction issues, and evaluate relocation of the existing utilities in an effort to provide easier access to the structural elements of the bridge.

**PROJECT DESCRIPTION**

The peer review consists of reviewing the available data, mainly the plans and specifications for the project, including permit requirements and restrictions. A probable construction schedule will be developed that includes all permit schedule restrictions.

The Project team, including City staff, will meet for a two-day workshop to review the construction site and participate in a two-day collaborative work session to focus on concepts that will minimize the construction schedule for the Project. This peer review process follows a well-documented Value Analysis program that is used extensively by the Federal Highway Administration and Caltrans.

**FUNDING**

The Project is funded by the federal aid Highway Bridge Program (HBP). The HBP will pay 80 percent of design costs and 88.53 percent of right of way and construction costs.

The following summarizes estimated total Project costs.

**ESTIMATED TOTAL PROJECT COST**

| <b>Design</b>   | <b>Project Costs</b> | <b>City Contribution</b> |
|---|----------------------|--------------------------|
| Conceptual Design (Bengal Engineering, Inc.)  | \$187,380            | \$37,476                 |
| Other Design Costs - Environmental Assessment:<br>(Applied Earthworks, Inc., Channel Islands<br>Acoustics, URS Corporation, Inc., and Fuguro) | \$93,622             | \$18,724                 |
| Final Design (Bengal Engineering, Inc.)   | \$1,493,251          | \$298,650                |
| City Staff (Administration)*  | \$350,000            | \$70,000                 |
| Peer Review Analysis  | \$31,360             | \$6,272                  |
| <b>Subtotal</b>   | <b>\$2,155,613</b>   | <b>\$431,122</b>         |
| <b>Right of Way</b>   | <b>Project Costs</b> | <b>City Contribution</b> |
| Right of Way Acquisition and Services*  | \$3,500,000          | \$80,290                 |
| City Staff (Administration)*  | \$350,000            | \$40,145                 |
| <b>Subtotal</b>   | <b>\$3,850,000</b>   | <b>\$120,435</b>         |
| <b>Construction</b>   | <b>Project Costs</b> | <b>City Contribution</b> |
| Construction Management   | \$1,905,000          | \$218,504                |
| Construction  | \$14,605,000         | \$1,675,194              |
| City Staff (Administration)*  | \$750,000            | \$86,025                 |
| <b>Subtotal</b>   | <b>\$17,260,000</b>  | <b>\$1,979,723</b>       |
| <b>Total</b>  | <b>\$23,265,613</b>  | <b>\$2,531,280</b>       |

\* Order of magnitude rough estimate

Staff has negotiated an acceptable proposal with Drake Haglan and Associates, a capable firm, with strong expertise in bridge design and knowledge of the federal aid HBP Program. Currently Drake Haglan and Associates is under contract to prepare the preliminary engineering design of the Chapala Street Bridge Replacement Project. They are also one of the participants in the City's Pre-qualified Engineering Services Program.

There are sufficient funds in the Streets Fund to cover the cost of the services.

**PREPARED BY:** John Ewasiuk, Principal Civil Engineer/JG/DS/sk

**SUBMITTED BY:** Christine F. Andersen, Public Works Director

**APPROVED BY:** City Administrator's Office