



# CITY OF SANTA BARBARA

## COUNCIL AGENDA REPORT

**AGENDA DATE:** July 12, 2011

**TO:** Mayor and Councilmembers

**FROM:** Engineering Division, Public Works Department  
Creeks Division, Parks and Recreation Department

**SUBJECT:** Contract For Construction For The MacKenzie Park Storm Water Infiltration Project

**RECOMMENDATION:** That Council:

- A. Award a contract with Shaw Contracting, Inc. (Shaw), in the amount of \$368,230 for construction of the MacKenzie Park Storm Water Infiltration Project (Project), Bid No. 3643, which includes their low bid of \$351,730, and expenditures to construct Bid Schedule 2 – Bid Alternate in the amount of \$16,500; and
- B. Authorize the Public Works Director to execute the contract and approve expenditures up to \$36,823 to cover any cost increases that may result from contract change orders for extra work and differences between estimated bid quantities and actual quantities measured for payment.

### **DISCUSSION:**

#### **PROJECT DESCRIPTION**

Urban storm water runoff is the single largest source of surface water pollution in Santa Barbara. Under most existing conditions, storm water runoff from urban areas picks up pollutants as it flows across roofs, sidewalks, driveways, and streets, and is conveyed by gutters, channels, and storm drains directly to local creeks and the ocean without any treatment. This runoff carries sediment, nutrients, bacteria, hydrocarbons, metals, pesticides, and trash.

The City has developed a Storm Water Management Program (SWMP) in order to reduce the discharge of pollutants into local creeks and the ocean, and installing permeable pavers is one of the suggested methods for developers to meet the City's guidelines. Permeable pavers allow water to pass through them into a subsurface gravel layer that doubles as a storage/infiltration area and a structural base layer.

The Project consists of installing 13,500 square feet of permeable concrete pavers in the lower MacKenzie Park parking lot. The Project is designed to capture and treat the volume of storm water generated from a 1-inch, 24-hour storm event. The Project will be used as an example of a relatively simple Best Management Practice that meets the City's SWMP requirements, and can be installed almost anywhere there is existing hardscape with low traffic volumes (site conditions permitting).

#### CONTRACT BIDS

A total of 4 bids were received for the subject work, ranging as follows:

	<b>BIDDER</b>	<b>BID AMOUNT</b>
1.	Shaw Contracting Carpinteria, CA	\$351,730
2.	Lash Construction Santa Barbara, CA	\$358,265
3.	John Madonna Construction San Luis Obispo, CA	\$376,990
4.	Union Engineering Company Ventura, CA	\$436,297

The low bid of \$351,730, submitted by Shaw, is an acceptable bid that is responsive to and meets the requirements of the bid specifications.

The change order funding recommendation of \$36,823, or 10%, is typical for this type of work and size of project.

#### COMMUNITY OUTREACH

Public Works staff will coordinate with the contractor to perform the standard public notification for the Project. Construction has been scheduled for a two week period beginning August 22, 2011, when there are no planned activities occurring in MacKenzie Park. Access to the MacKenzie Lawn Bowls Club through the MacKenzie Park parking lot will be maintained throughout construction. Creeks Division staff will perform post-construction outreach demonstrating the storm water treatment design and benefits.

#### FUNDING

This project will be paid for with Measure B funds already appropriated in the Creeks Division Capital Fund. The Creeks Division also has a grant application pending with the State Water Resources Control Board that could, if awarded, be substituted for the Measure B funds.

The following summarizes the expenditures recommended in this report:

**CONSTRUCTION CONTRACT FUNDING SUMMARY**

	<b>Basic Contract</b>	<b>Change Funds</b>	<b>Total</b>
Shaw Contracting, Inc.	\$368,230	\$36,823	\$405,053
<b>TOTAL RECOMMENDED AUTHORIZATION</b>			<b>\$405,053</b>

The following summarizes all Project design costs, construction contract funding, and other Project costs:

**ESTIMATED TOTAL PROJECT COST**

*\*Cents have been rounded to the nearest dollar in this table.*

Other Design Costs	\$38,143
City Staff Costs	\$18,000
<b>Subtotal</b>	<b>\$56,143</b>
Construction Contract	\$368,230
Construction Change Order Allowance	\$36,823
<b>Subtotal</b>	<b>\$405,053</b>
Other Construction Costs (testing, etc.)	\$2,000
Construction Management/Inspection (by City Staff)	\$60,758
<b>Subtotal</b>	<b>\$62,758</b>
<b>TOTAL PROJECT COST</b>	<b>\$523,954</b>

**SUSTAINABILITY IMPACT:**

The City's SWMP has three different requirements that must be met by project applicants: (1) a peak runoff discharge requirement; (2) a runoff volume requirement; and (3) a water quality treatment requirement. The Project meets or exceeds these requirements. For the peak runoff discharge requirement, the Project reduces the storm water runoff discharge rate from previous conditions by allowing water to pass through the permeable pavers and into a storage/infiltration gravel area. For the runoff volume requirement, the subsurface gravel layer below the permeable pavers has enough capacity to retain on-site the volume of storm water generated from a 1-inch, 24-hour storm event. The water quality treatment requirement is met in this same fashion, by retaining and treating on-site the volume of storm water generated from a 1-inch, 24-hour storm event.

**PREPARED BY:** John Ewasiuk, Principal Civil Engineer/MR/sk  
Cameron Benson, Creeks Restoration/Water Quality  
Improvement Manager

**SUBMITTED BY:** Christine F. Andersen, Public Works Director  
Nancy Rapp, Parks and Recreation Director

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