



## **Staff Report**

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RESOLUTION APPROVING PLANS AND SPECIFICATIONS, AUTHORIZING ADVERTISEMENT FOR SEALED BIDS, APPROVING AWARD OF CONTRACT TO THE LOWEST RESPONSIBLE BIDDER FOR AN AMOUNT NOT TO EXCEED \$340,000, APPROVING A CONSTRUCTION CONTINGENCY NOT TO EXCEED \$34,000, AND AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT FOR EAST LAUREL CREEK BANK STABILIZATION PROJECT, CITY CONTRACT NUMBER 475

Honorable Mayor and Council Members:

### **Summary**

The City Council is requested to approve advertisement and award of a construction contract for City Contract Number 475 to construct a shotcrete and soil nailing retaining wall to stabilize the creek and roadway embankment and to line an existing corrugated metal culvert at East Laurel Creek about 150 feet south of the San Juan Pump Station.

### **Background**

This construction contract will remedy two adjacent failures: a rusted out corrugated metal pipe carrying East Laurel Creek under the roadway and a bank failure adjacent to the culvert outfall. The corrugate pipe failure was identified over a year ago, but it has taken many months to complete environmental studies and develop a remedial design acceptable to the regulatory agencies. The bank failure occurred during the January 2006 rain storms when part of an old sackcrete retaining wall supporting the bank below the outfall from the corrugated metal pipe culvert collapsed.

Staff investigated lower cost alternatives such as closing East Laurel Creek Road to through traffic as an alternative to repairing the culvert and bank failure. However, this would not stop the slope embankment deterioration and could jeopardize the surrounding roadway. It would also inconvenience residents on the north side of the culvert since their only remaining access would be via the steep Haskins Road.

### **Discussion**

The City contracted with Cotton Shires & Associates to investigate and design the bank repair and culvert rehabilitation. Staff has reviewed the design and finds the plans and specifications ready for advertisement. The project includes: construction of a shotcrete and soil nail retaining wall to stabilize the collapsed creek embankment; lining the corroded pipe; grouting voids underneath the pipe; and constructing one or more stilling ponds at the outfall to dissipate the hydraulic energy at the outlet. The liner will be a structural resin/fiber liner similar to that used

in sewer pipelining projects. It will be pressure-cured in place to restore the structural integrity of the culvert so that it will continue supporting the overlaying roadway. The project will also include reconstruction of the failed guardrail along the roadway edge and surface drainage.

Staff has obtained clearance from U.S. Army Corp of Engineers and the California Regional Water Quality Control Board for construction of this project. Staff submitted a permit application to the Department of Fish & Game that is currently under review. One of Fish & Game conditions is construction of a complicated series of stilling ponds below the outfall to facilitate fish migration. Staff has presented information to Fish & Game showing that that migratory fish have not been observed in this location. Staff has counter-proposed reusing the existing fallen sackcrete and concrete apron for construction of a single, simpler stilling pond that will adequately enhance the habitat. This is still under negotiation and is pending the Department's approval. If Fish & Game holds to their requirement for the complicated pond system, it will increase project costs by about \$30,000. An additional budget of \$5,000 for consultant design is requested for the design consultant who has prepared several alternative designs for the stilling pond in response to Fish & Game comments.

The agreement between the Department of Fish & Game shall be ready for execution in early August. The project is anticipated to begin in mid-August with most of the work finished before the rainy season, as required by Department of Fish & Game regulations. The project will take 40 working days to construct.

### **General Plan/Vision Statement**

There is no impact from this repair contract.

### **Fiscal Impact**

Total funding needed, including for contingency and miscellaneous items is \$409,000. The engineer's estimate for the construction work is \$340,000 for two work items:

1. Shotcrete and soil nailing retaining wall - \$200,000.
2. Culvert lining and construction of outfall stilling pond - \$140,000.

The contingency and other miscellaneous costs include:

1. Ten percent construction contingency up to \$34,000.
2. Additional \$30,000 if Fish & Game requires the complicated stilling pond system.
3. \$5000 design contract amendment with Cotton Shires & Associates.

Funding for the shotcrete and soil nailing retaining wall in the amount of \$220,000 (including contingency) will be obtained from the Unanticipated Infrastructure Repair Project Fund 310-4196-6116-9030. Staff has applied to FEMA and to the State Office of Emergency Services for reimbursement of this cost and the application is under review. Any moneys received from FEMA and the State will be returned to this fund.

The remaining amount of \$189,000 for the stilling pond(s) and culvert lining will be funded from the Storm Drainage Enterprise Fund 525-4315-6051-9030. These costs are directly related to repair or replacement of an existing failed corrugated pipe which is within the scope of work defined for this budget account.

### **Public Contact**

Public contact consists of posting the City Council agenda.

### **Recommendation**

Staff recommends that the City Council take the following actions for City Contract Number 475, East Laurel Creek Bank Stabilization Project:

1. Approve the construction plans and specifications;
2. Authorize advertisement for sealed bids from qualified construction contractor;
3. Approve award of contract to the lowest responsible bidder for an amount not to exceed \$340,000;
4. Approve a construction contingency equal to 10 percent of the contract price;
5. Authorize the City Manager to execute a contract with the lowest responsible bidder;
6. Approve an additional \$30,000 budget if a complicated stilling pond is required by the Department of Fish & Game;
7. Authorize the City Manager to sign the streambed alteration agreement with the Department of Fish & Game;
8. Amend the design contract with Cotton Shires and Associates increasing the total contract cost by \$5000; and,
9. Authorize the allocation of \$220,000 from the Unanticipated Infrastructure Repair Project Fund 310-4196-6116-9030 and \$189,000 from the Storm Drainage Enterprise Fund 525-4315-6051-9030 for the construction of this project.

### **Alternatives**

1. Refer back to staff for further information.
2. Deny the request and close the roadway.

### **Attachments**

A. Resolution

Respectfully submitted,

Gilbert Yau, P.E.  
Senior Civil Engineer

Raymond E. Davis, III  
Director of Public Works

Maureen L. Cassingham  
Interim City Manager

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**RESOLUTION NO. \_\_\_\_\_**

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BELMONT APPROVING PLANS AND SPECIFICATIONS, AUTHORIZING ADVERTISEMENT FOR SEALED BIDS, APPROVING AWARD OF CONTRACT TO THE LOWEST RESPONSIBLE BIDDER FOR AN AMOUNT NOT TO EXCEED \$340,000, APPROVING A CONSTRUCTION CONTINGENCY NOT TO EXCEED \$34,000, AND AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT FOR THE EAST LAUREL CREEK BANK STABILIZATION PROJECT, CITY CONTRACT NUMBER 475**

**WHEREAS**, the culvert carrying East Laurel Creek under the roadway and the creek bank at the culvert outfall have failed and require repair: and,

**WHEREAS**, the Department of Public Works has prepared plans and specifications for the East Laurel Creek Bank Stabilization Project; and,

**WHEREAS**, funding shall be from the Unanticipated Infrastructure Repair Project Fund 310-4196-6116-9030 and the Storm Drainage Enterprise Fund 525-4315-6051-9030.

**NOW, THEREFORE, BE IT RESOLVED**, that:

1. The City Council approves City Contract Number 475 plans and specifications.
2. The City Council authorizes advertisement for sealed bids for this work.
3. The City Council approves award of contract to the lowest responsible bidder for an amount not to exceed \$340,000.
4. The City Council approves a construction contingency to be administered by the City Manager for an amount equal to 10 percent of the construction contract.
5. The City Council authorizes the City Manager to execute a contract with the lowest responsible bidder.
6. The City Council approves an additional \$30,000 for the project if a more complicated stilling pond is required by the Department of Fish & Game.
7. The City Council authorizes the City Manager to sign the streambed alteration agreement with the Department of Fish & Game.
8. The City Council approves an amendment of the contract with Cotton Shires and Associates increasing the total contract cost by \$5000.
9. The City Council authorizes the allocation of \$220,000 from the Unanticipated Infrastructure Repair Project Fund 310-4196-6116-9030 and \$189,000 from the Storm Drainage Enterprise Fund 525-4315-6051-9030 for the construction of this project.

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I hereby certify that the foregoing Resolution was duly and regularly passed and adopted by the City Council of the City of Belmont at a regular meeting thereof held on July 11, 2006.

AYES, COUNCILMEMBER(S): \_\_\_\_\_

NOES, COUNCILMEMBER(S): \_\_\_\_\_

ABSTAIN, COUNCILMEMBER(S) \_\_\_\_\_

ABSENT, COUNCILMEMBER(S): \_\_\_\_\_

\_\_\_\_\_  
Clerk of the City of Belmont

APPROVED:

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Mayor of the City of Belmont