



Staff Report

RESOLUTION APPROVING A PROFESSIONAL SERVICES AGREEMENT WITH SCHAAF & WHEELER FOR AN AMOUNT NOT TO EXCEED \$72,000 AND AN ADDITIONAL 10% CONTINGENCY OF \$7,200 FOR THE DESIGN OF THE 2009 STORM DRAIN IMPROVEMENT PROJECT, CITY CONTRACT NUMBER 501

Honorable Mayor and Council Members:

Summary

City Council's approval is requested to authorize the execution of a Professional Services Agreement (PSA) with Schaaf & Wheeler for the design of the 2009 Storm Drain Improvement Project, City Contract Number 501.

Background

In 2007, the City Council adopted a Storm Drain Master Plan for the City. The purpose of the City-wide storm drainage study is to document the existing City storm water drainage system, analyze the areas that attribute to the infiltration and inflow (I/I) problems for sewer lines, identify drainage deficiencies, and prioritize system repairs and upgrades to correct the deficiencies.

Rusted corrugated metal storm drains develop holes that allow flow to infiltrate to the ground. This water either percolates to groundwater or infiltrates into the sewer lines through cracks and defects in the pipes, manholes and service laterals. A portion of the runoff will flow along the pipes and wash away adjacent soil. If not repaired, the soil supporting the roadway will fail, leading to failure of the pavement section, ultimately destabilizing the sewer and storm pipes. In areas without storm drain systems, runoff is conveyed through the gutters and within the street pavement section. This runoff leaches oil from the asphalt, causing unraveling of the asphalt and cracks. Where cracking occurs, runoff has a pathway to enter the roadway base, which increases the potential for sewer infiltration.

Deteriorating storm drain lines within the City should be replaced to correct the problems that can impact the sewer systems and the roadways. According to the Master Plan Study, a total of about 33 percent of the existing storm drain lines are either under-sized, or constructed of pipe material that is aging and in need of replacement. Based on the analyses of the City's existing drainage systems, most of the systems west of El Camino Real provide a 10-year storm event level of service. In this area, most under-sized pipes are corrugated metal pipe (CMP) lines.

These undersized lines are also failing structurally and it is recommended that the City make replacement of these lines a high priority. A system of prioritization is recommended to gradually upgrade the City drainage system. The priority one repair includes the following:

1. **Undersized CMP Improvements** are necessary where undersized CMP storm drain lines are failing. These locations have the highest risk of failure of the storm drain line leading to the formation of sinkholes.
2. **Aging CMP Improvements** are necessary to replace aging CMP lines that otherwise have adequate flow capacity. Slip-lining a thin walled high density polyethylene (HDPE) line into the pipe and grouting the annular space between the HDPE and the aging CMP is recommended for lines 15-inch and larger.

Discussion

The Public Works Department solicited proposals from twenty consulting firms for the design of the storm drain improvement project; the City received three proposals. California law requires selection of Architectural and Engineering (A&E) contract services on the basis of demonstrated competence and professional qualifications. Negotiations shall begin with the most qualified consultant. Should negotiations not result in a price the City considers to be fair and reasonable, negotiations shall be formally terminated and the City shall then undertake negotiations with the second most qualified consultant. If the negotiation with the second most qualified firm is not successful, negotiations shall be formally terminated and the City shall then undertake negotiations with the third most qualified consultant, etc. until the price is determined to be fair and reasonable by the City. (California Government Code, Chapter 10, Sections 4525 through 4529.5).

The City staff procurement committee independently screened and ranked these proposals based on the following criteria: Team Experience for Similar Services; Team Members Experience; Project Approach; Understanding of City's Needs. The consultants are ranked as follow:

1. Schaaf & Wheeler
2. BKF, Inc.
3. Wilsey Ham

The City received a final proposal and negotiated an agreement with Schaaf & Wheeler to complete the work. The design contract amount is not to exceed \$72,000 with an additional 10% contingency of \$7,200. The estimated construction cost for the storm drain improvement project is approximately \$1,000,000.

General Plan/Vision Statement

The 2009 Storm Drain Project, City Contract Number 501 work is consistent with the General Plan Public Facilities and Services Goals Section (Paragraph 2041), which states: "To provide

public services at a level adequate to ensure public safety, health and welfare at the lowest possible cost; to establish and maintain all essential public services and facilities in a manner that ensures continued operation in time of emergency.”

Fiscal Impact

The City has no dedicated funding source for storm water capital improvement projects. Revenue from the sewer bond has been used to fund the storm drainage system because storm drainage facilities reduce the inflow and infiltration of runoff into the sewer systems. The value of the professional services agreement with Schaaf & Wheeler is not to exceed \$72,000 with an additional 10% contingency of \$7,200. Funding will be drawn from the Storm Drainage Enterprise Account Number 525-3-730-6051-9030.

Public Contact

Public contact consists of posting the City Council agenda.

Recommendation

City Council approval is requested to complete a professional services agreement with Schaaf & Wheeler for the design of the 2009 Storm Drain Improvement Project, City Contract Number 501.

Alternatives

1. Take no action.
2. Refer to staff for more questions.
3. Deny approval.

Attachments

- A. Resolution

Respectfully submitted,

Gilbert Yau, PE
Senior Civil Engineer

Raymond E. Davis III, PE, POTE
Director of Public Works

Jack R. Crist
City Manager

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RESOLUTION NO. _____

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BELMONT APPROVING
A PROFESSIONAL SERVICES AGREEMENT WITH SCHAAF & WHEELER FOR AN
AMOUNT NOT TO EXCEED \$72,000 AND AN ADDITIONAL 10% CONTINGENCY
OF \$7,200 FOR THE DESIGN OF THE 2009 STORM DRAIN IMPROVEMENT
PROJECT, CITY CONTRACT NUMBER 501**

WHEREAS, the City requires a qualified and experienced consultant to design the 2009 Storm Drain Improvement Project; and,

WHEREAS, rusted corrugated metal storm drains develop holes that allow flow to infiltrate the sewer lines through cracks and defects in the pipes, manholes and service laterals; and,

WHEREAS, deteriorating storm drain lines within the City should be replaced to correct the problems that can impact the sewer systems and the roadways; and,

WHEREAS, revenue from the sewer bond can be used to fund the storm drainage system because storm drainage facilities reduce the inflow and infiltration of runoff into the sewer systems; and,

WHEREAS, the proposed storm drain project will repair and upgrade existing corrugated metal pipes as identified in the Belmont Storm Drain Master Plan and reduce the infiltration problem; and,

WHEREAS, the City has reviewed proposals from three design consultants; and,

WHEREAS, Schaaf & Wheeler has submitted an acceptable proposal for the design of the 2009 Storm Drain Project and agreed to complete the design.

NOW, THEREFORE, BE IT RESOLVED:

1. The City Council of the City of Belmont directs the City Manager to execute a Professional Services Agreement with Schaaf & Wheeler, approved as to form by the City Attorney, in an amount not to exceed \$72,000 and directs the City Clerk to affix her signature thereto.
2. Funding for this agreement is not to exceed \$72,000 with an additional 10% contingency of \$7,200. Funding will be drawn from Storm Drain Enterprise Account Number 525-3-730-6051-9030.

* * * * *

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 April 14, 2009 by the following vote:

AYES, COUNCILMEMBERS: _____

NOES, COUNCILMEMBERS: _____

ABSTAIN, COUNCILMEMBERS: _____

ABSENT, COUNCILMEMBERS: _____

CLERK of the City of Belmont

APPROVED:

MAYOR of the City of Belmont