

CITY COUNCIL AGENDA MEMORANDUM

SUBJECT

Resolution No. 8252, authorizing execution of a professional services agreement with Site Development Associates, LLC, for engineering services related to easement acquisitions in 2011 for the Small Diameter Water Main Replacement program, in the amount of \$250,000 (CIP Plan No. W-16).

FISCAL IMPACT

Awarding this contract commits the City to a contract of \$250,000. This contract will be funded from the Utilities CIP Plan No. W-16, Small Diameter Water Main Replacement Program. Sufficient funds exist to fund this contract.

STAFF CONTACT

Mike Jackman, Interim Deputy Director, 452-6012
Wes Jorgenson, Assistant Director, 452-4887
Utilities Department

POLICY CONSIDERATION

Utilities Department policies, as set forth in the adopted Utilities Water Comprehensive Plan, support investing resources as necessary to construct, maintain and renew water system infrastructure and equipment so that utility customers are provided with consistent, reliable service. It is the Department's practice to replace small diameter asbestos cement water main installed in the late 1940's and 1950's to reduce the possibility of water main breaks as well as to increase fire flow. CIP Plan No. W-16 has been designated to do this.

BACKGROUND

The Small Diameter Water Main Replacement program has been ongoing for a number of years. Replacement of deteriorated elements of the water system will reduce the possibility of pipeline failure that may result in property damage and potential claims against the City and is consistent with the Utilities asset management program. This contract will provide surveying services and conceptual water main design to assist the City in obtaining new easements for water main pipe on private property at approximately 23 sites throughout the Utilities service area in 2011. Project sites being investigated for water main replacement are part of the oldest in our water service system or have a history of maintenance problems.

Utilities will be coordinating with the City's Transportation Department and neighborhood residents to complete the utility work prior to any pavement overlay and in order to minimize street restoration costs and construction inconvenience to neighborhoods. The total estimated construction cost for the pipeline replacement projects is approximately \$3 million.

Site Development Associates, LLC has been selected to perform the preliminary design work for this project. Due to limited in-house staff resources, the Department has to rely more on consultants to accomplish the CIP. Over the past ten years, the Utility CIP has continued to increase to address growth and aging infrastructure. During this same period, there has been an increased use of consultants, with a minimal increase to in-house design staffing, to keep pace with the increased volume of design work. Contracting this design work out to consulting firms will help ensure that CIP goals can be met.

The consultant selection process for this contract was consistent with the City's policies and procedures. A selection team representing engineering design and operations staff participated in all aspects of the consultant selection. The selection team reviewed a pool of consultants from the City's consultant roster, and invited eight consulting firms to submit Statements of Qualifications (SOQ's). Five of these firms submitted SOQ's. The selection team reviewed the SOQ's submitted by Roth Hill LLC, Blueline, CHS Engineers, Site Development Associates, LLC and Parsons Brinckerhoff. They selected Site Development Associates, LLC as the most qualified firm for this project because of their technical skills, knowledge, and expertise in water main design and easement preparation, which made them the most qualified to accomplish this work and meet project schedule requirements.

As required by state law relating to contracts for architectural and engineering services, the City selects the consultant deemed to be most qualified for a given project. State law precludes using cost as a basis for selection of engineering firms.

The consultant's 2009 billing rates will remain in effect for the full duration of this two-year contract.

EFFECTIVE DATE

If adopted, this Resolution will become effective immediately.

OPTIONS

1. Adopt Resolution No. 8252, authorizing execution of a professional services agreement with Site Development Associates, LLC, for engineering services, for easement acquisitions in 2011 for the Small Diameter Water Main Replacement program, in the amount of \$250,000 (CIP Plan No. W-16).
2. Do not adopt the Resolution and provide alternative direction to staff.

RECOMMENDATION

Adopt Resolution No. 8252, authorizing execution of a professional services agreement with Site Development Associates, LLC, for engineering services, for easement acquisitions in 2011 for the Small Diameter Water Main Replacement program, in the amount of \$250,000 (CIP Plan No. W-16).

MOTION

Move to adopt Resolution No. 8252 , authorizing execution of a professional services agreement with Site Development Associates, LLC, for engineering services, for easement acquisitions in 2011 for the Small Diameter Water Main Replacement program, in the amount of \$250,000 (CIP Plan No. W-16).

ATTACHMENTS

CIP Project Description
Proposed Resolution No. 8252

AVAILABLE IN COUNCIL OFFICE

Consultant Contract

W-16 Small Diameter Water Main Replacement

Category: **Water**
 Department: **Utilities**

Status: **Ongoing**
 Location: **Various locations throughout Water Utility's service area**

Programmed Funding								
Programmed Funding	Appropriated To Date	FY 2011 Budget	FY 2012 Budget	FY 2013 Budget	FY 2014 Budget	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget
71,729,354	28,114,000	3,980,080	4,645,472	5,359,024	6,124,427	6,942,490	7,815,758	8,748,103

Description and Scope

This program focuses primarily on replacing short-lived small diameter asbestos cement (AC) pipe, which yields a secondary benefit of increasing the emergency fireflow available to neighborhoods. This investment will ramp up water pipeline replacement to 5 miles/year by 2018, and then be adjusted with inflation to maintain the 5 miles/yr replacement rate. At that rate, water pipe will need to last on average 100-125 years. Pipes are selected for replacement based on risk of failure (likelihood and consequence), failure history, and coordination with other construction, such as planned street overlays (which reduce restoration costs).

PROJECT NEED: System Renewal and Replacement; Improved Level of Service

Rationale

Water pipeline replacement will ramp up from 1.5 miles per year to 5 miles per year over a year-year period. Acceleration of this project is required to achieve the Asset Management Program (AMP) goal of cost effective system renewal and replacement while maintaining acceptable customer service levels. Experience has shown that small diameter AC pipes have the shortest life. AC pipe fails catastrophically, often causing significant damage to nearby properties and triggering more breaks in nearby AC pipes. Before the program acceleration (initiated in 2009), the replacement rate meant water mains would need to last 400 years, well beyond expected asset life.

4-inch AC pipe comprises 3% of the water system, but accounts for one third of all main breaks. Besides size and material, soil corrosiveness, moisture content, and original construction quality affect pipe life. As budgeted, most 4-inch AC pipe will be replaced by 2017, reaching a maximum pipe age of 61 years. Replacement of 6-inch AC main would follow, over a 30 year period. Larger diameter mains would be replaced before they reach 125 years old. Pipes of other materials (ductile and cast iron, clay) will also be replaced as needed. The potential for main breaks will be significantly reduced, minimizing service disruptions to customers and costly emergency repairs, and reducing claims exposure.

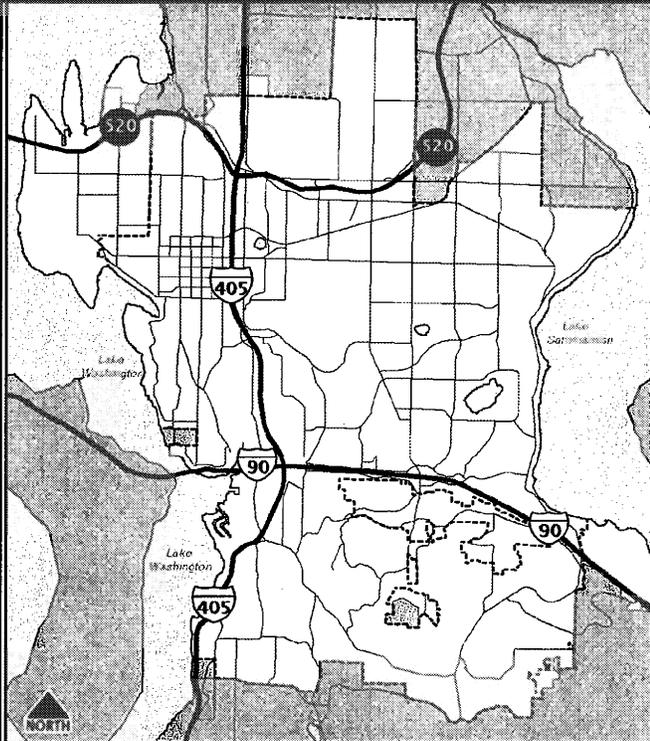
Environmental Impacts

Replacement of Water mains less than eight inches in diameter are generally exempt from environmental review, unless they are in or adjacent to sensitive areas. The status of environmental review of specific projects is undetermined.

Operating Budget Impacts

This project will have no impact on operating revenues (and/or) expenditures, since it replaces existing facilities.

Project Map Schedule of Activities



Project Activities	From - To	Amount
Project Costs	Ongoing	71,729,354
Total Budgetary Cost Estimate:		71,729,354

Means of Financing		
Funding Source	Amount	
Charges for Services	15,000	
Contributions from Other City Funds	179,000	
Miscellaneous Revenue	794,000	
Utility Rates/Fees	70,741,354	
Total Programmed Funding:		71,729,354
Future Funding Requirements:		0

This project is located throughout the service area.

CITY OF BELLEVUE, WASHINGTON

RESOLUTION NO. 6252

A RESOLUTION authorizing the execution of a professional services agreement with Site Development Associates, LLC in an amount not to exceed \$250,000 (CIP Plan No. W-16) for engineering services for easement acquisitions in 2011, for the Small Diameter Water Main Replacement program.

THE CITY COUNCIL OF THE CITY OF BELLEVUE, WASHINGTON, DOES RESOLVE AS FOLLOWS:

Section 1. The City Manager or his designee is hereby authorized to execute a professional services agreement with Site Development Associates, LLC in an amount not to exceed \$250,000 (CIP Plan No. W-16), for engineering services for easement acquisitions in 2011, for the Small Diameter Water Main Replacement program, a copy of which agreement has been given Clerk's Receiving No. _____.

Passed by the City Council this _____ day of _____, 2011, and signed in authentication of its passage this _____ day of _____, 2011.

(SEAL)

Don Davidson, DDS
Mayor

Attest:

Myrna L. Basich, City Clerk