



**CITY OF KIRKLAND**  
**Department of Public Works**  
123 Fifth Avenue, Kirkland, WA 98033 425.587.3800  
[www.ci.kirkland.wa.us](http://www.ci.kirkland.wa.us)

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## MEMORANDUM

**To:** David Ramsay, City Manager

**From:** Daryl Grigsby, Public Works Director  
Ray Steiger, P.E., Capital Projects Manager

**Date:** November 6, 2008

**Subject:** NE 80<sup>th</sup> STREET SEWER AND WATER MAIN REPLACEMENT (PHASE I) - ACCEPT WORK

### RECOMMENDATION:

It is recommended that City Council accept the construction of the NE 80<sup>th</sup> Street Sewer and Water Main Replacement (Phase I), as constructed by Shoreline Construction, Woodinville, Washington, and establish the statutory lien period. In addition, it is recommended that Council authorize the use of \$97,000 of utility capital contingency funds needed for project closeout.

### BACKGROUND DISCUSSION:

The entire NE 80<sup>th</sup> Sewer and Water Main Replacement Project between I-405 and 132<sup>nd</sup> Ave NE has been broken into three phases in the Capital Improvement Program due to the magnitude of the costs. Phase I, this memo, is primarily located between 122<sup>nd</sup> Ave NE and 124<sup>th</sup> Ave NE; Phase II and Phase III are funded in 2012 and beyond. Phase I resulted in the installation of new 10 and 12-inch sewer main together with the replacement of an 8-inch water main. The Project also included the construction of a section of new 20-inch transmission water main that will eventually serve as the replacement to the existing transmission main that is located within NE 85<sup>th</sup> Street (Attachment A).

This Project was designed and advertised using four separate schedules: A, B, C & D, thus providing maximum flexibility in the amount of work to be awarded at bid opening. The bids were opened on March 18, 2008, and at their meeting of April 18, 2008, with an approved construction budget of \$877,000 and a total project budget of \$1,186,000 (Attachment B), Staff recommended an award of Schedules A, B & C to Shoreline Construction for \$780,183. At the time of award, Council concurred with Staff's recommendation to also negotiate additional work for Schedule D in order to utilize, to some degree, the Project's remaining overall construction budget. During the subsequent negotiations of possible additional work under Schedule D, a design error was discovered. At that point negotiations on Schedule D ceased, and discussions began on how to best resolve the issue.

In order to resolve the design error, a survey discrepancy in the original design, the design consultant recommended the installation of an additional 145 feet of sewer main and 280 feet of new 20-inch transmission water main west of the original contract terminus; this added piping was identified to be done in the future Phase III component. The estimated construction costs for this added work and the projection of the remaining contract quantities were in line with the remaining budget, and the construction of the new infrastructure provided the City with needed improvements, and thus a change order for the work was issued to Shoreline Construction. The design consultant on the other hand provided all of the necessary engineering and design work for the extended piping, estimated at \$10,000, at no additional cost to the City. By performing the construction as an extension of Phase I, there were minimal impacts to the neighborhood.

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The total amount recommended to be paid to the contractor is \$936,233 including two change orders (CO): CO #1 – \$144,310 covers additional work due to the survey error, and pending CO #2 – \$30,000 for an equitable adjustment based on additional asphalt quantities that were required on the Project. Additionally, higher expenditures for engineering, which at award were identified at \$309,000 and, at the completion of the project, are \$343,694.

With Council's approval of the recommended additional funds, CO #2 can be executed, final payment will be issued to Shoreline, and the total project budget will be increased to \$1,283,000. It is recommended that water/sewer capital contingency be used to fully fund the project (Attachment C).

Attachments: Exhibit A. - Vicinity Map  
Exhibit B - Project Budget Report  
Exhibit C - Fiscal Note



Locality Map

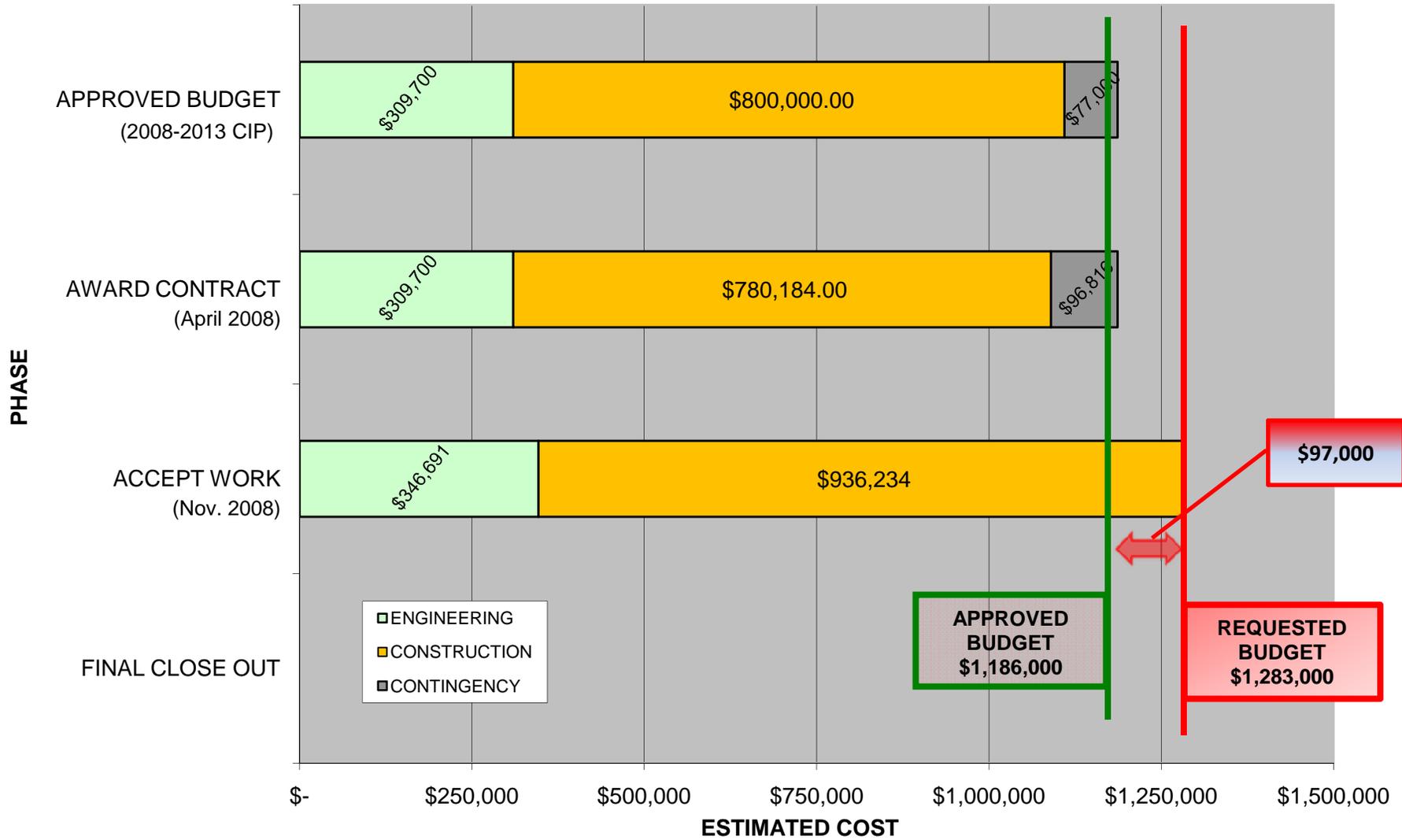


Water and Sewer Utility Department  
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Kirkland, Washington 98033. www.kirklandwa.gov  
November 5, 2020

# NE 80th Street Sewer and Water Main Replacement

# NE 80TH STREET SEWER & WATER MAIN REPLACEMENT - SS0050

## PROJECT BUDGET REPORT



**FISCAL NOTE**

CITY OF KIRKLAND

Source of Request							
Daryl Grigsby, Public Works Director							
Description of Request							
Request additional funding of \$97,000 from the Water/Sewer Capital Contingency for the completion of the NE 80th Street Sewer & Water Main Replacement (Phase I) project. Phase I, primarily located between 122nd Ave NE and 124th Ave NE, resulted in the installation of new 10 and 12-inch sewer main together with the replacement of an 8-inch water main. The project also included the construction of a section of new 20-inch transmission water main that will eventually serve as the replacement to the existing transmission main that is located within NE 85th Street. Additional expenses were incurred for the project because of two change orders and an engineering overrun that resulted in the use of all available project contingency and requires the additional \$97,000 to close out the project.							
Legality/City Policy Basis							
Fiscal Impact							
<b>One-time use of \$97,000 of the Water/Sewer Capital Contingency.</b> The contingency is able to fully fund this request.							
Recommended Funding Source(s)							
<i><b>Reserve</b></i>	Description	2008 Est End Balance	Prior Auth. 2007-08 Uses	Prior Auth. 2007-08 Additions	Amount This Request	Revised 2008 End Balance	2008 Target
	Water/Sewer Capital Contingency	1,703,640	741,694	0	97,000	864,946	1,703,640
	2007-08 Prior Authorized Uses of this reserve include: \$113,900 for the Central Way Improvements; \$250,000 and \$61,494 for the 2007 Water System Improvement Project; \$81,000 for the Waverly Beach Lift Station Project; \$55,300 for the 7th Ave and 114th Ave Watermain Replacement Project; \$180,000 for watermain repairs on the NE 73rd Street Sidewalk Project.						
<i><b>Revenue/Exp Savings</b></i>							
<i><b>Other Source</b></i>							
Other Information							

Prepared By	Sri Krishnan, Sr. Financial Analyst	Date	November 5, 2008
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