



CITY OF KIRKLAND

Department of Public Works

123 Fifth Avenue, Kirkland, WA 98033 425.587.3800

www.ci.kirkland.wa.us

MEMORANDUM

To: David Ramsay, City Manager

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

Date: September 4, 2007

Subject: WAVERLY BEACH PARK LIFT STATION - ACCEPT WORK

RECOMMENDATION:

It is recommended that the City Council accept the construction of the Waverly Beach Park Lift Station, as constructed by McClure and Sons, Inc. of Mill Creek, Washington, and establish the required lien period. In addition it is recommended that City Council provide an additional \$81,000 from utility reserves for the project.

BACKGROUND DISCUSSION:

The Waverly Beach Park Lift Station provides wastewater services to 125 residents along the shores of Lake Washington (Attachment A, B, & C). Through several major modifications, the last in 1979, the existing facility had been able to provide basic wastewater services, however, the lift station had reached its useful design life and had many operational and maintenance deficiencies. The final project scope included replacing of the entire facility immediately north of the existing Waverly Beach Park restroom facilities, reconstruction of the sewer main through Waverly Beach park, demo of the old lift station, repaving of the Waverly Park Access Road, and re-landscaping of the disturbed areas.

At their November 15, 2005 meeting, the City Council authorized staff to advertise for bids for the Lift Station Project, and on July 20, 2006 the City Council awarded the construction contract to McClure & Sons, Inc. of Mill Creek, WA in the amount of \$866,735.62. Construction was completed in June 2007, and the total amount paid to the contractor was \$923,641.67 which included one significant change order.

During construction of the new lift station, sanitary sewer mains needed to be reconstructed to allow flows to be redirected into the new sewer lift station. During the design process, Kirkland records indicated that the existing sewer main was constructed of a material that could be cut, removed, and discarded using normal operations. When this pipe was uncovered during construction, it was discovered that it was made of asbestos cement (AC). AC pipe requires significantly different and more labor intensive work to remove and dispose of and thus the contractor required more funds to complete the work.

A final evaluation of the project shows that although consistent with other recent pump station and lift station projects where engineering fees equal approximately 50% of the overall construction, engineering and inspection expenses after the award went higher than originally anticipated (Attachment D). For this project, a contract inspector was hired to perform construction inspection since the design firm had insufficient resources available.

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Inspection on these types of facilities has previously been performed by either in-house maintenance and operations staff (The 650 Water Pump Station in 2004), or inspectors that are employed by the consultant design team (Plaza Lift Station in 1997, and Juanita Lift Station in 2003). This project's "third party" arrangement required additional coordination and overlap of site observations by the design firm, and combined with the construction completion being delayed by approximately 30 working dates due to utility conflicts, added to post award engineering fees.

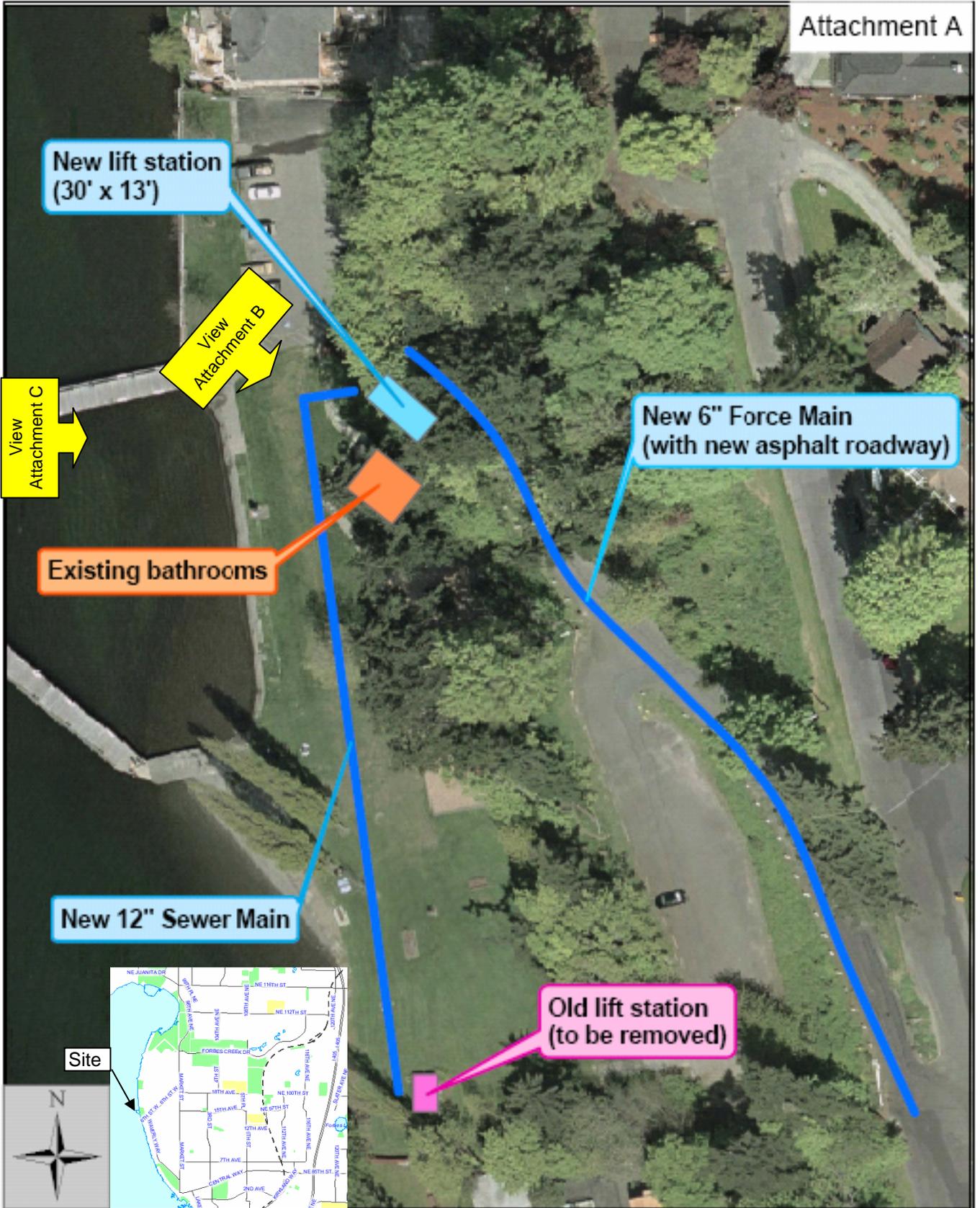
It is recommended that the additional \$81,000 from utility reserves be provided to the project (Attachment E).

Attachments: Vicinity Map (A)

Before and After Project Photos (B,C)

Project Budget Report (D)

Fiscal Note (E)



Aerial View
Waverly Beach Park and the New Lift Station



Waverly Beach Park Access Road - Exhibit B



Before and After

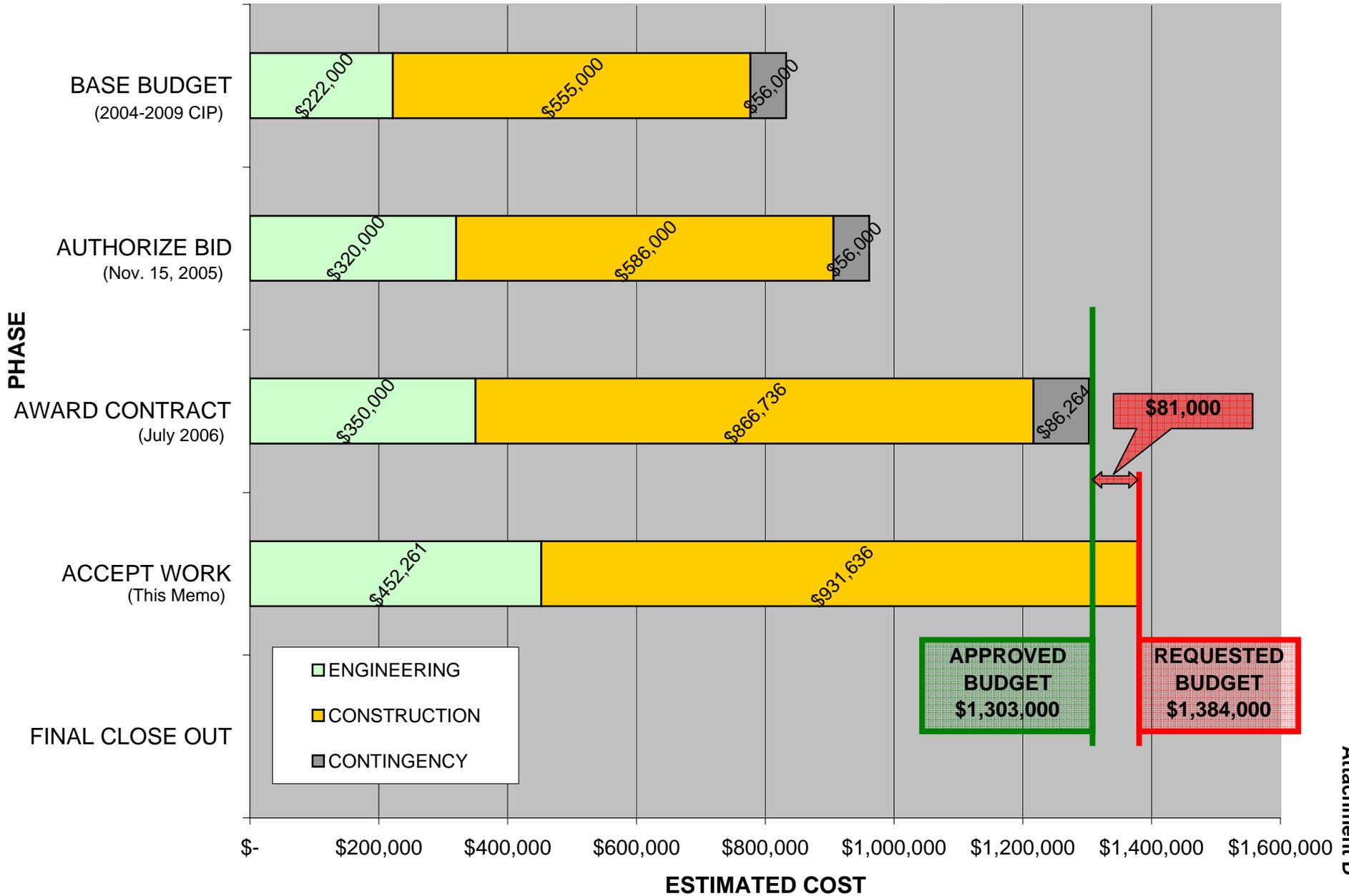
Waverly Beach Park Lift Station - Exhibit C



Before and After

Waverly Beach Lift Station (CIP#SS-0053)

PROJECT BUDGET REPORT



FISCAL NOTE

CITY OF KIRKLAND

Source of Request							
Daryl Grigsby, Public Works Director							
Description of Request							
Request for additional funding of \$81,000 from the Water/Sewer Capital Contingency for the Waverly Beach Park Lift Station project. Cost overruns are due to unanticipated asbestos cement pipe uncovered during construction and higher than anticipated engineering/inspection due primarily to project construction delays.							
Legality/City Policy Basis							
Fiscal Impact							
One-time use of \$81,000 of the Water/Sewer Capital Contingency. The contingency is able to fully fund this request.							
Recommended Funding Source(s)							
<i>Reserve</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	363,900	0	81,000	1,258,740	1,703,640
	2007 Prior Authorized Uses includes \$113,900 for the utility portion of the Central Way Improvements project and \$250,000 for the 2007 Water System Improvements projects.						
<i>Revenue/Exp Savings</i>							
<i>Other Source</i>							
Other Information							

Prepared By	Sandi Hines, Financial Planning Manager	Date	August 22, 2007
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