



## CITY OF KIRKLAND

### Department of Public Works

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[www.ci.kirkland.wa.us](http://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 18, 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 approve the use of an additional \$81,000 from utility reserves to complete the project.

#### BACKGROUND DISCUSSION:

The Waverly Beach Park Lift Station provides wastewater services to 125 residents along the shores of Lake Washington (Attachment A). Through several major modifications, the last in 1979, the former lift station facility had been able to provide sufficient wastewater services, however, the lift station had reached its useful design life and had many operational and maintenance deficiencies including an overflow directly to Lake Washington. This project included replacement of the entire facility locating it immediately north of the existing Waverly Beach Park restroom facilities for access, reconstruction of the sewer mains through Waverly Beach Park, demolition of the old lift station, repaving the Waverly Park access road and parking lot, and re-landscaping the disturbed areas.

Commencement of the siting and design of the new lift station began in 2001. At their November 15, 2005 meeting, the City Council authorized staff to advertise for bids for the Project, and on July 20, 2006, Council awarded the construction contract to McClure & Sons, Inc. of Mill Creek, WA in the amount of \$866,735.62. Construction proceeded through the fall and winter of 2006/2007 while the Park was at its lowest seasonal use by the Public and was completed in June 2007. 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) which is not normally used on sewer line construction. 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 second factor that increased the cost of the project, beyond that anticipated at award was an increase in the engineering/inspection during construction. The final reconciliation of the project shows that although consistent with other recent pump station and lift station projects where engineering fees typically equal approximately 50% of the overall construction, engineering and inspection expenses after the award went higher than originally anticipated (Attachment D).

For this project, not only did the AC pipe conflict directly add construction material and time costs for the contractor, they required a considerably longer construction period (approximately 30 working days) and thus added to the inspection costs.

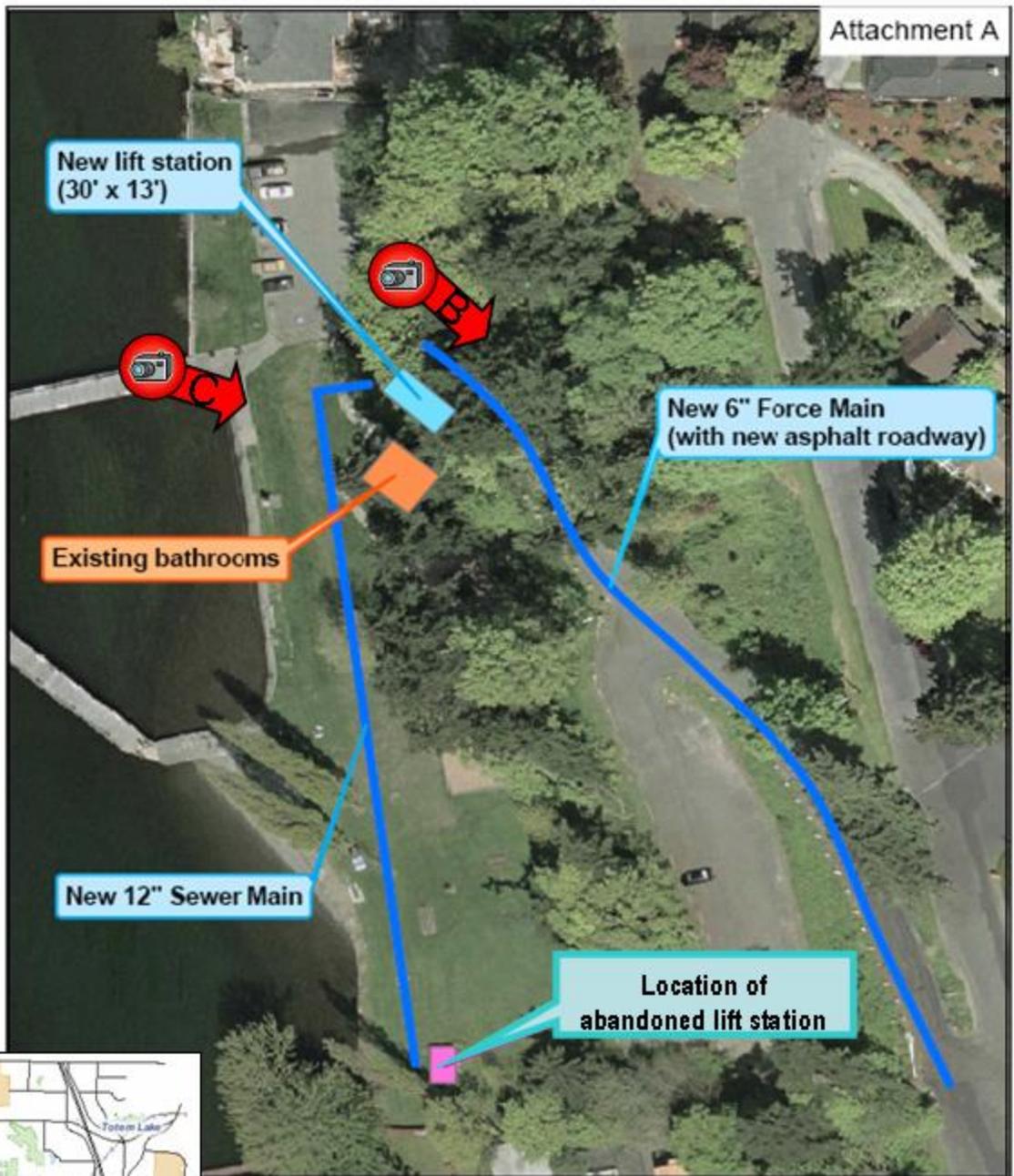
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The conflict also required significant negotiations (and expenses) by Staff with the Contractor and then the Consultant hired to design the Project. The Contractor originally filed a \$68,000 claim for additional charges to address the AC pipe and other miscellaneous changed conditions on the job; Staff was able to substantially reduce the Contractor extras after negotiations. Subsequent to these negotiations, and based on design conflicts, Staff pursued financial responsibility by the design consultant and secured a reimbursement for elements of the design work. Despite those efforts, there were additional costs to complete the project in the amount of \$81,000; and it is recommended that the additional funds come from utility reserves as indicated in the attached Fiscal Note (Attachment E).

Attachments:   A       Vicinity Map  
                  B       Before/After access road  
                  C       Before/After restroom facility  
                  D       Project Budget Report  
                  E       Fiscal Note



Aerial View  
Waverly Beach Park and the New Lift Station

**Waverly Beach Park Access Road - Attachment B**



**Before and After**

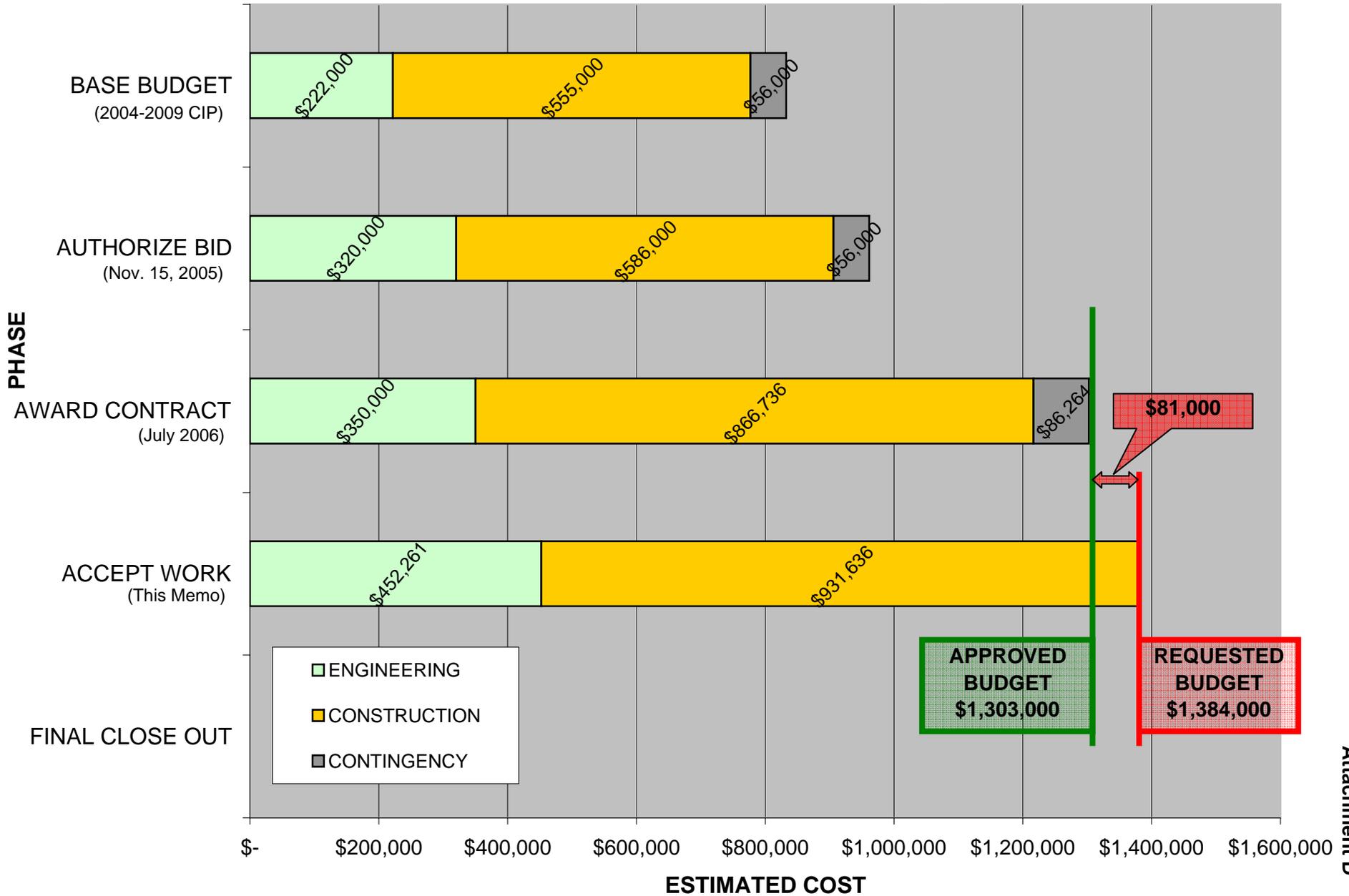
Waverly Beach Park Lift Station - Attachment C



Before and After

# Waverly Beach Lift Station (CIP#SS-0053)

## PROJECT BUDGET REPORT



**FISCAL NOTE**

CITY OF KIRKLAND

<b>Source of Request</b>							
Daryl Grigsby, Public Works Director							
<b>Description of Request</b>							
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.							
<b>Legality/City Policy Basis</b>							
<b>Fiscal Impact</b>							
<b>One-time use of \$81,000 of the Water/Sewer Capital Contingency.</b> The contingency is able to fully fund this request.							
<b>Recommended Funding Source(s)</b>							
<b><i>Reserve</i></b>	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.						
<b><i>Revenue/Exp Savings</i></b>							
<b><i>Other Source</i></b>							
<b>Other Information</b>							

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