



## CITY OF KIRKLAND

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### MEMORANDUM

**To:** David Ramsay, City Manager

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

**Date:** September 16, 2008

**Subject:** NE 73<sup>rd</sup> Street Sidewalk– AWARD CONTRACT

#### RECOMMENDATION:

It is recommended that the City Council award the construction contract for the NE 73<sup>rd</sup> Street Sidewalk and watermain improvement project to Dennis R. Craig Construction Company of Redmond, WA, in the amount of \$418,895.79. In addition, it is recommended that the City Council authorize a budget increase of \$223,000 using a combination of funds from the water/sewer capital contingency and generally capital contingency funds.

#### BACKGROUND DISCUSSION:

Based on feedback from a number of neighborhood meetings and the School Walk Route Advisory Committee, NE 73<sup>rd</sup> St between 130<sup>th</sup> Ave NE and 132<sup>nd</sup> Ave NE (Attachment A) was prioritized as an important walk route for the neighborhood and for children attending Rose Hill Elementary and Junior High Schools. The project was funded in the Capital Improvement Program for construction along the north side of NE 73<sup>rd</sup> beginning in 2007.

Open house meetings held during the spring of 2007 indicated that the neighbors along the sidewalk route wanted to be included in the City's Emergency Sewer Program. This development delayed the completion of the design of the sidewalk, however it allowed for new sanitary sewer to be installed along this stretch of NE 73<sup>rd</sup> Street in advance of the sidewalk; the sanitary sewer was completed earlier this year.

The NE 73<sup>rd</sup> Sidewalk project design focused on opportunities to incorporate Low Impact Development (LID) practices in order to retain the rural look of the neighborhood and to utilize these developing best management practices on a public project. Many techniques were able to be incorporated due to the roadway width, type of surrounding soils, natural terrain, adjacent resident receptiveness to the maintenance requirements and other factors. These techniques have allowed the improvements to be installed in such a manner that will reduce what would normally be additional impervious surface. The specific LID techniques used in the project include pervious concrete sidewalks and driveway aprons, and a storm system which includes a series of short pipe segments and meandering rain gardens with drought tolerant plants. (Attachment B).

During construction of the sanitary sewer line and subsequent design of the LID storm system, it was determined that the existing waterline serving NE 73<sup>rd</sup> Street, constructed of asbestos cement (AC), would be required to be replaced in conjunction with the project. This waterline, not originally anticipated to be replaced was included in the sidewalk project scope of work.

In order to undertake the project during the current construction season, Staff proceeded to advertisement of the project which includes two schedules: Schedule A addresses the sidewalk and roadway components, and Schedule B addresses the watermain work. Bids were opened on August 27, 2008 and a total of eight bids were received; the following are the bid results:

<b>Contractor</b>	<b>Schedule A</b>	<b>Schedule B</b>	<b>Total Bid</b>
<b>Dennis R. Craig</b>	<b>\$ 321,132.55</b>	<b>\$97,763.24</b>	<b>\$418,895.79</b>
Archer Construction	\$ 337,269.00	\$84,089.14	\$421,358.14
Construc Co.	\$ 372,209.65	\$61,849.11	\$434,058.76
Trimaxx Construction Inc	\$ 347,750.80	\$89,236.12	\$436,986.92
Johansen Excavating	\$ 348,214.00	\$94,589.11	\$442,803.11
<i>Engineers Estimate</i>	<i>\$ 336,128.56</i>	<i>\$135,160.00</i>	<i>\$471,288.56</i>
Precision Earthworks	\$ 383,691.00	\$105,583.94	\$489,274.94
Sanders General Const.	\$ 367,238.00	\$125,800.17	\$493,038.17
Westwater Construction	\$ 393,334.00	\$134,031.85	\$527,365.85

A comparison of the bids to previous unit prices indicate that in this location the costs for using the LID approach are somewhat consistent with those received on previous standard sidewalk bids (Attachment C).

Based on the bid results, design costs expended to date and inspection anticipated, the new watermain and associated overlay of NE 73<sup>rd</sup> Street account for approximately \$180,000 in added costs to the project while the additional costs associated with the LID approach account for approximately \$43,000 (primarily in added landscaping costs). Funding for these cost increases are proposed to be allocated from the water/sewer capital contingency fund and from the general capital contingency fund (Attachment E).

With Council award for the Project at their September 16, 2008 meeting, construction would begin at the end of September with substantial completion expected in winter 2008.

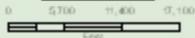
cc: Denise Pirolo, PE, Project Engineer

Attachments: Vicinity Map  
Low Impact Development project attributes  
Unit Price comparison  
Project Budget Report  
Fiscal Note

# NE 73rd Street Sidewalk & Waterline replacement

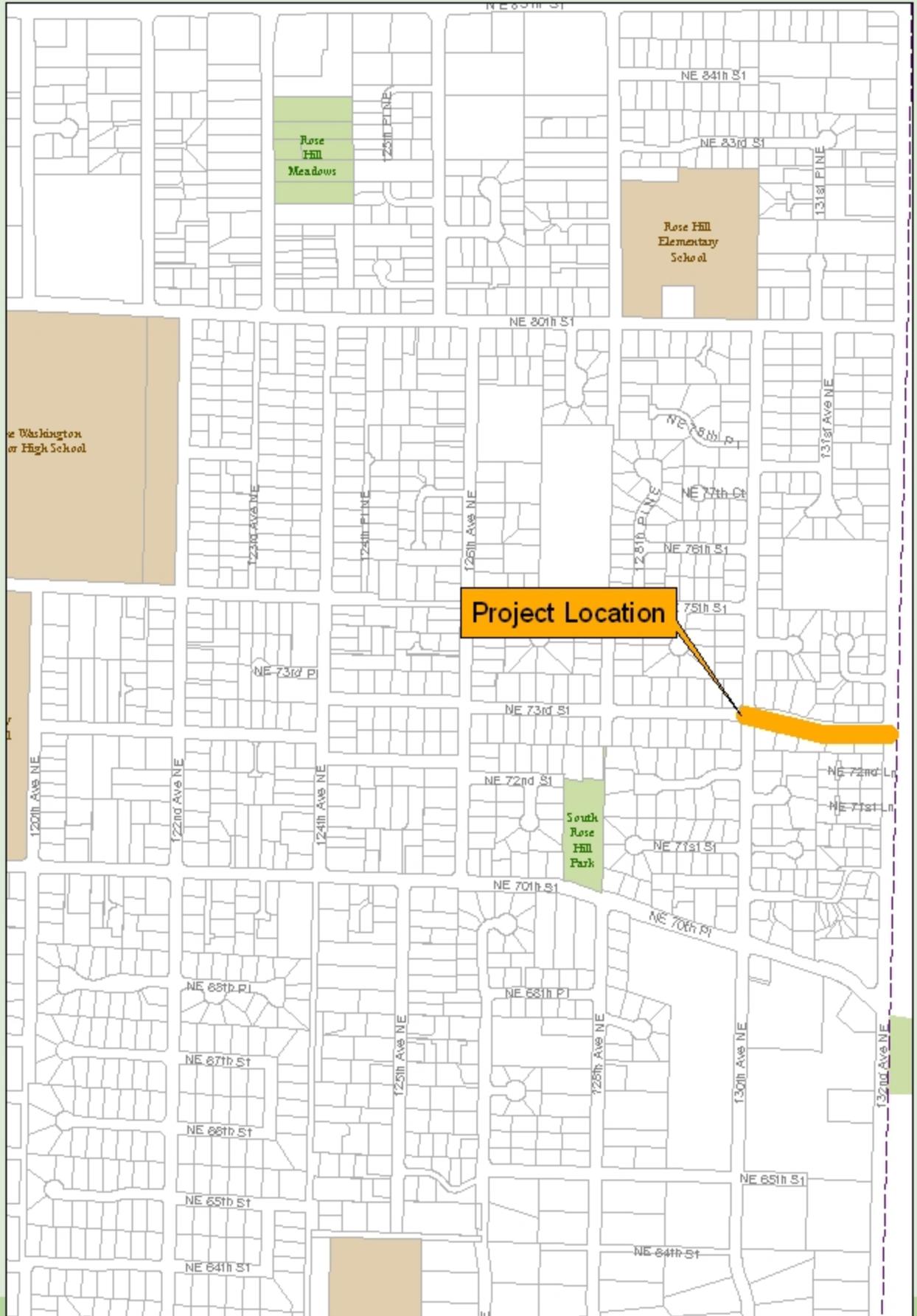


Vicinity Map



### Map Legend

- Fire Station
- City of Kirkland Boundary
- Building Footprint
- Railroad Centerline
- Dock/Pier
- Lake
- Tax Parcel Boundary
- Street Centerline
- Pavement Edge
- Park
- School
- Address Point
- Tax Parcel



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### emergents (typical)



**Common Rush**  
*Juncus effusus*  
H: 2.5' W: 2'



**Small-fruited Bulrush**  
*Scirpus microcapit*  
H: 2.5'-5' W: 2'-3'  
Flowers in late spring

### bioswale vegetation (typical)



**Pacific Crabapple**  
*Malus Fusca*  
H: 15' W: 10'  
White flowers in May



**Dwarf Dogwood**  
*Cornus sericea 'Kebryl'*  
H: 2'-2.5' W: 2'-2.5'  
Purple fall color

**Compact Oregon Grape**  
*Mahonia aquifolium 'Compacta'*  
H: 4' W: 4'  
drought tolerant, evergreen shrub.  
Yellow flowers and blue berries.

**Kinnikinnick**  
*Arctostaphylos uva-ursi*  
Spreading ground cover, pink white flower, red berries

**White Rockrose**  
*Cistus cobariensis*  
H: 3' W: 5'  
Drought tolerant, evergreen shrub with white blooms

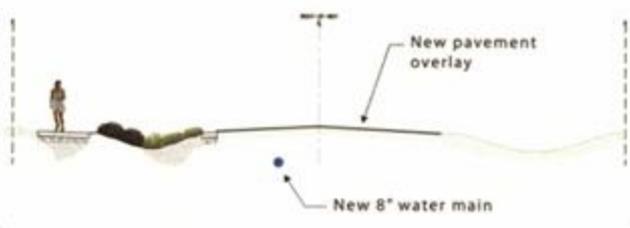
**Beach strawberry**  
*Fragaria chiloensis*  
H: 1' W: 6'  
Evergreen groundcover. White flowers and red berries.

**Slough sedge**  
*Carex obtusata*  
H: 2'-3' W: 2'-3'

**Slender cinquefoil**  
*Patentilla gracilis*  
H: 2'-3' W: 1'

**Snowberry**  
*Symphoricarpos albus*  
H: 4' W: 4'  
Deciduous shrub with long lasting white berries through winter

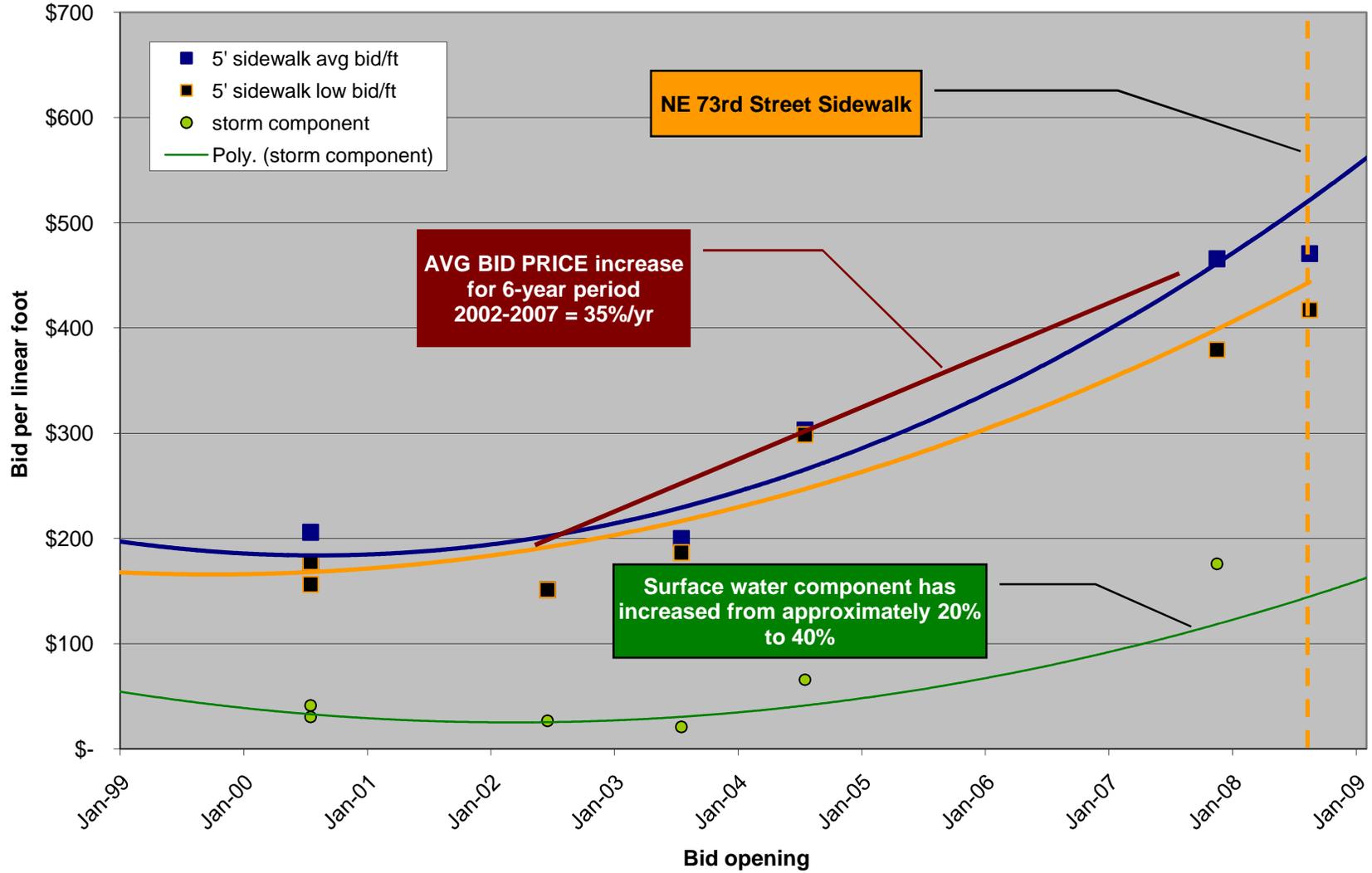
### LID improvement section



# Kirkland LID Street Improvement Landscape Concept

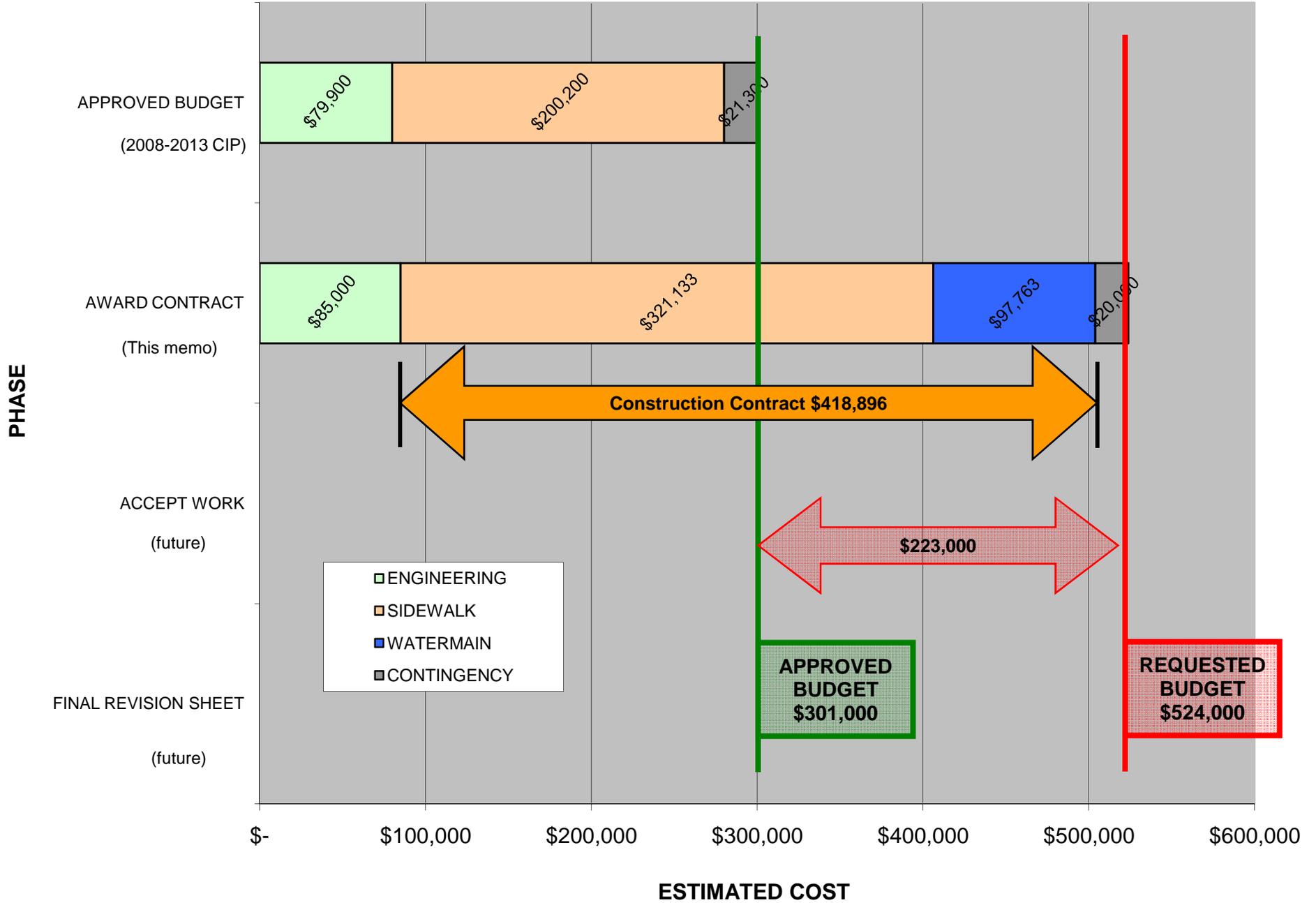


### Historical comparison of Sidewalk Bids



# NE 73RD STREET SIDEWALK & WATER MAIN PROJECT (CNM 0052)

## PROJECT BUDGET REPORT



**FISCAL NOTE**

<b>Source of Request</b>							
Daryl Grigsby, Public Works Director							
<b>Description of Request</b>							
Request for additional funding of \$223,000 – \$180,000 from the Water/Sewer Capital Contingency and \$43,000 of the General Capital Contingency – for the NE 73rd Street Sidewalk project (NM 0052). The following changes to the scope of the project added to the total estimated cost of the project:  1) Addition of the watermain replacement and associated overlay of NE 73rd Street accounts for approximately \$180,000 in added costs; and 2) Low Impact Development (LID) approach utilized in the project accounts for approximately \$43,000 (primarily in added landscaping costs).							
<b>Legality/City Policy Basis</b>							
<b>Fiscal Impact</b>							
<b>One-time use of \$180,000 of the Water/Sewer Capital Contingency and one-time use of \$43,000 of the General Capital Contingency.</b> The contingencies are able to fully fund this request.							
<b>Recommended Funding Source(s)</b>							
<b>Reserve</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	500,200	0	180,000	1,023,440	1,703,640
	General Capital Contingency	3,312,834	0	0	43,000	3,269,834	5,822,280
	2007 Prior Authorized Uses of the Water/Sewer Capital Contingency includes \$113,900 for the utility portion of the Central Way Improvements project; \$250,000 for the 2007 Water System Improvements projects; \$81,000 for the Waverly Beach Park Lift Station project and \$55,300 for the 7th Avenue/114th Avenue Watermain Replacement project.						
<b>Revenue/Exp Savings</b>							
<b>Other Source</b>							
<b>Other Information</b>							

Prepared By	Sri Krishnan, Senior Financial Analyst	Date	September 5, 2008
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