



CITY OF KIRKLAND
Department of Public Works
123 Fifth Avenue, Kirkland, WA 98033 425.587.3800
www.kirklandwa.gov

MEMORANDUM

To: Kurt Triplett, City Manager

From: Dave Snider, P.E., Capital Projects Manager
Pam Bissonnette, Interim Public Works Director

Date: June 6, 2013

Subject: Annual Street Preservation Program (2013 Phase III Slurry Seal Project)
Award Contract

RECOMMENDATION:

It is recommended that City Council award a construction contract for the Annual Street Preservation Program, 2013 Phase III Slurry Seal Project, to Blackline, Inc., of Vancouver, WA in the amount of \$511,793.69.

BACKGROUND DISCUSSION:

The City uses a Pavement Management System to manage and prioritize preservation treatments throughout the City's street network. The Pavement Management System considers all City streets in terms of existing pavement conditions index (PCI), prior maintenance histories, the City's annual budget for street preservation, and other factors to determine the most cost-effective treatment. Once selected for treatment, candidate streets are then reviewed for potential conflicts with other construction projects (i.e., other CIP projects, private development, WSDOT, and PSE, etc.) and are typically clustered into manageable areas before making it onto the current year's program list (Attachment A).

As an effective preventative maintenance tool in the City's overall Street Preservation Program, a slurry seal is a thin layer of liquid asphalt that has been mixed with a fine aggregate (i.e., sand). Typically, slurry seals are placed on low-volume residential streets where light to moderate surface wear is occurring. Slurry seal is a versatile and cost effective way to extend the life of the City's residential streets where there is no significant structural damage to the pavement section. It protects the asphalt surface from the effects of aging while improving the existing PCI.

For the 2013 Slurry Seal Project, the highest ranking streets were bid with four schedules of work for a total of 32.3 lane miles. It was structured this way because the engineer's estimate projected that bids would exceed the budget and staff wanted to maximize the amount of work that could be awarded without exceeding that budget.

With an original budget of \$450,000 (minus contingency), the 2013 Slurry Seal Project was bid with an engineer's estimate closer to \$725,000 for the four schedules and on May 29, three bids were received with the following results:

Contractor	Total of All Schedules
Blackline, Inc.	\$511,793.69
Valley Slurry Seal	\$512,681.00
Intermountain Slurry Seal	\$516,516.00
<i>Engineer's Estimate</i>	<i>\$725,000.00</i>

A comparison of the unit prices received shows that the average cost of slurry seal has decreased significantly, from \$2.39/SY in 2012 to \$1.57/SY in 2013 (Attachment B). The decrease in cost is mainly attributed to the significant increase in the number slurry seal streets over last year's project. Therefore, based on the low bid price received, and by using \$62,000 of available 2013 Street Preservation Program construction contingency, staff is recommending an award of all schedules of work (Attachment C).

The 2013 Slurry Seal Project is Phase III of the Annual Street Preservation Program. The Phase I and Phase II components of the Annual Street Preservation Program are the 2013 Curb Ramp & Concrete Repairs Project and the 2013 Street Overlay Project. Contracts for those phases were awarded by City Council at their meetings on March 19 and May 21, 2013 respectively. Phase I is currently wrapping up construction and Phase II will begin construction in June.

The total budget for the Annual Street Preservation Program for 2013 is a combination of four revenue sources including the base CIP, Proposition 1 Levy funds, a City Council approved carry-over from the 2012 program, and a street-cut mitigation payment from PSE:

Revenue Source	Amount
2013-2018 base CIP	\$1,750,000
Prop 1 Levy funds	\$1,959,000
2012 Carry-over	\$ 227,309
PSE Contribution	\$ 170,329
TOTAL	\$4,106,638

For 2013, Prop 1 Levy funds for the Annual Street Preservation Program were anticipated to be in the amount of \$2.7M based on an estimated Levy yield of \$3M. The actual yield of the Prop 1 Street Levy is \$2.9M. Together with start-up and engineering costs, and the recent City Council approval of the 2013 Crosswalk Initiative, a Prop 1 Levy balance of \$1,959,000 is available for the 2013 Street Preservation Program. The available Levy amount will be allocated as follows: \$1,559,000 for overlay, \$200,000 for curb ramps, and \$200,000 for slurry seal.

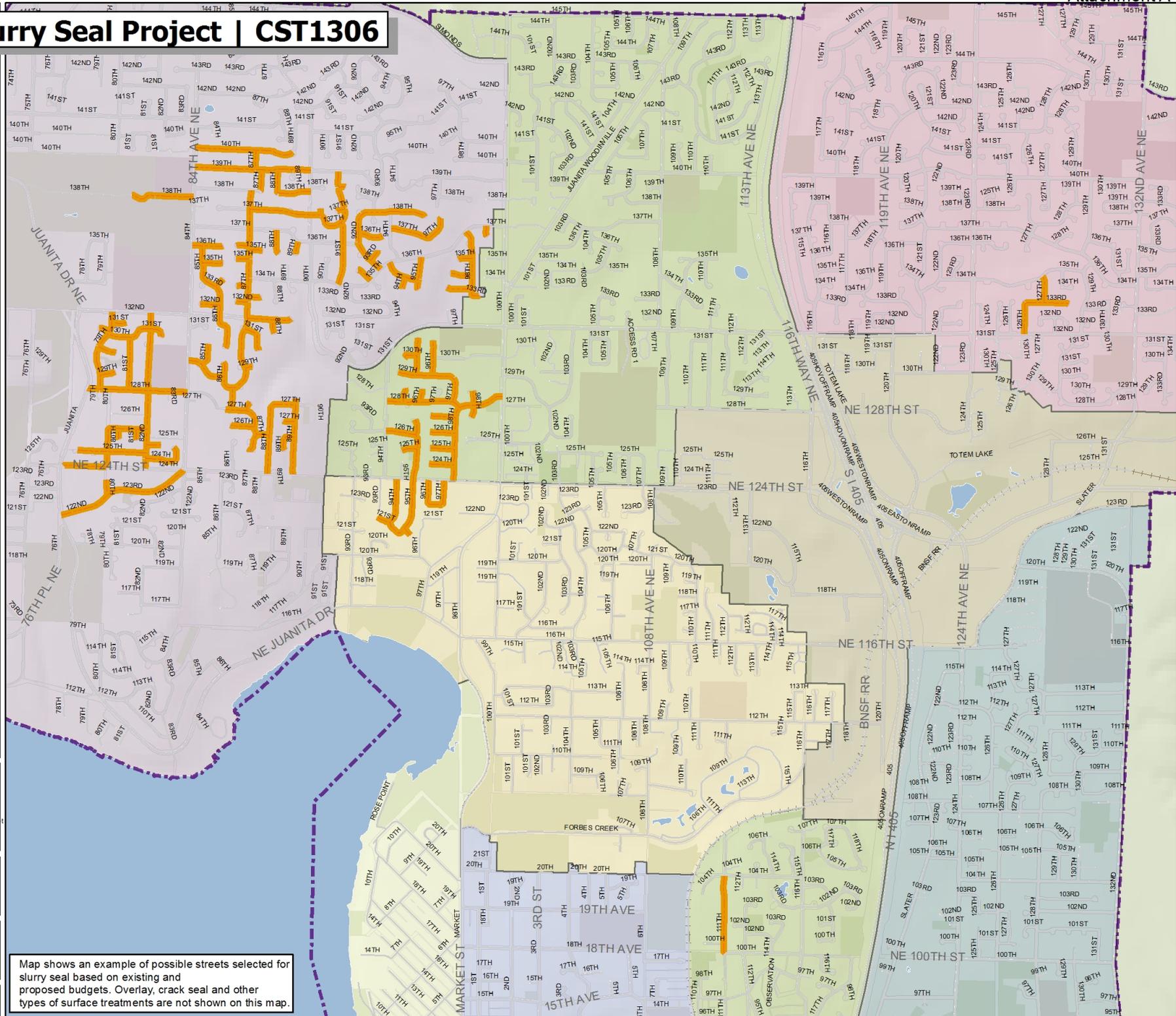
The current anticipated expenses for the Annual Street Preservation Program, in 2013, are as follows:

Phase	Status	Amount
Phase I Curbs and Ramps	Under Construction	\$ 475,943
Phase II Overlay	Awarded 5/21/13	\$2,348,067
Phase III Slurry Seal	This memo	\$ 511,794
Engineering, Admin, Inspection	On-Going	\$ 600,000
Contingency	Balance Remaining	\$ 170,834
	TOTAL	\$4,106,638

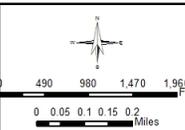
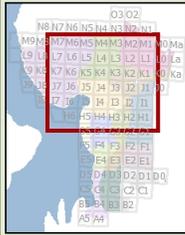
With a City Council award of the construction contract at the June 18 meeting, staff will begin the pre-construction public outreach process by notifying adjacent property owners of the scheduled work. Construction of this Slurry Seal Project is extremely weather and temperature dependent and will begin in early July; the construction will be complete by September. In advance of the contractor's work, City street crews will be sealing cracks and repairing damaged sections of pavement to prepare the streets for the slurry seal application. Public Works staff will also provide an informational brochure to all property owners living along the planned Slurry Seal routes (Attachment D). The brochure describes the City's Street Preservation Program together with important facts on the Slurry Seal treatment. The information in this brochure and schedule updates will also be incorporated into the Public Works section of the City's web site. In addition, door-hanger notices will be distributed to all adjacent homes and business at least 24 hours prior to Slurry Seal applications.

- Attachment A – Vicinity Map
- Attachment B – Annual cost comparison
- Attachment C – Project Budget Report
- Attachment D – Slurry Seal Brochure

2013 Slurry Seal Project | CST1306



- 2013 Slurry Seal Streets
- Streets
- TRN_Street
- Right of Way
- Parks
- Schools
- Cross Kirkland Corridor
- Major Streets
- City Limits
- Lakes

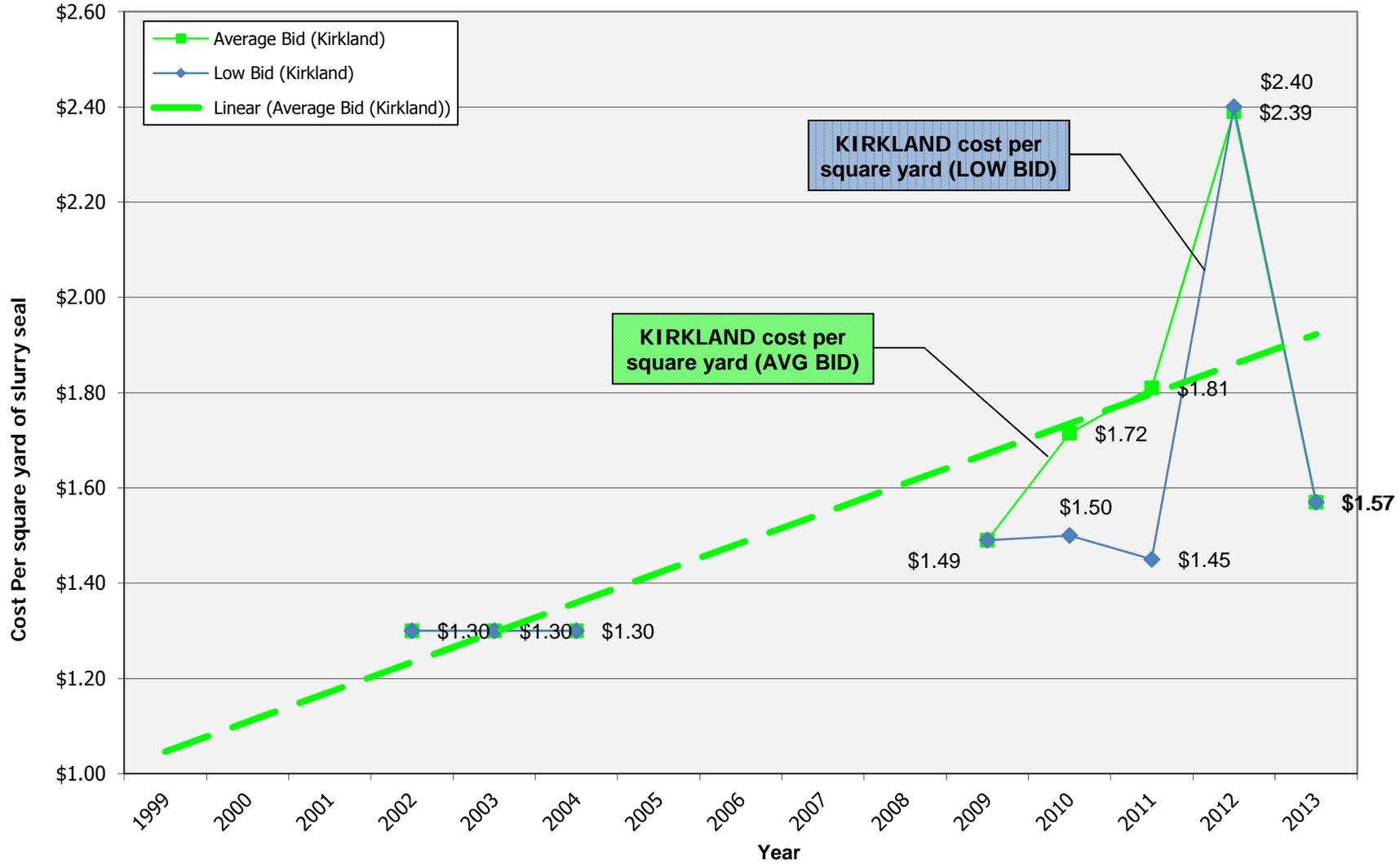


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Map shows an example of possible streets selected for slurry seal based on existing and proposed budgets. Overlay, crack seal and other types of surface treatments are not shown on this map.

Author:
 Name: CST1306 - Slurry Seal List
 Date Saved: 3/20/2013 11:45:02 AM

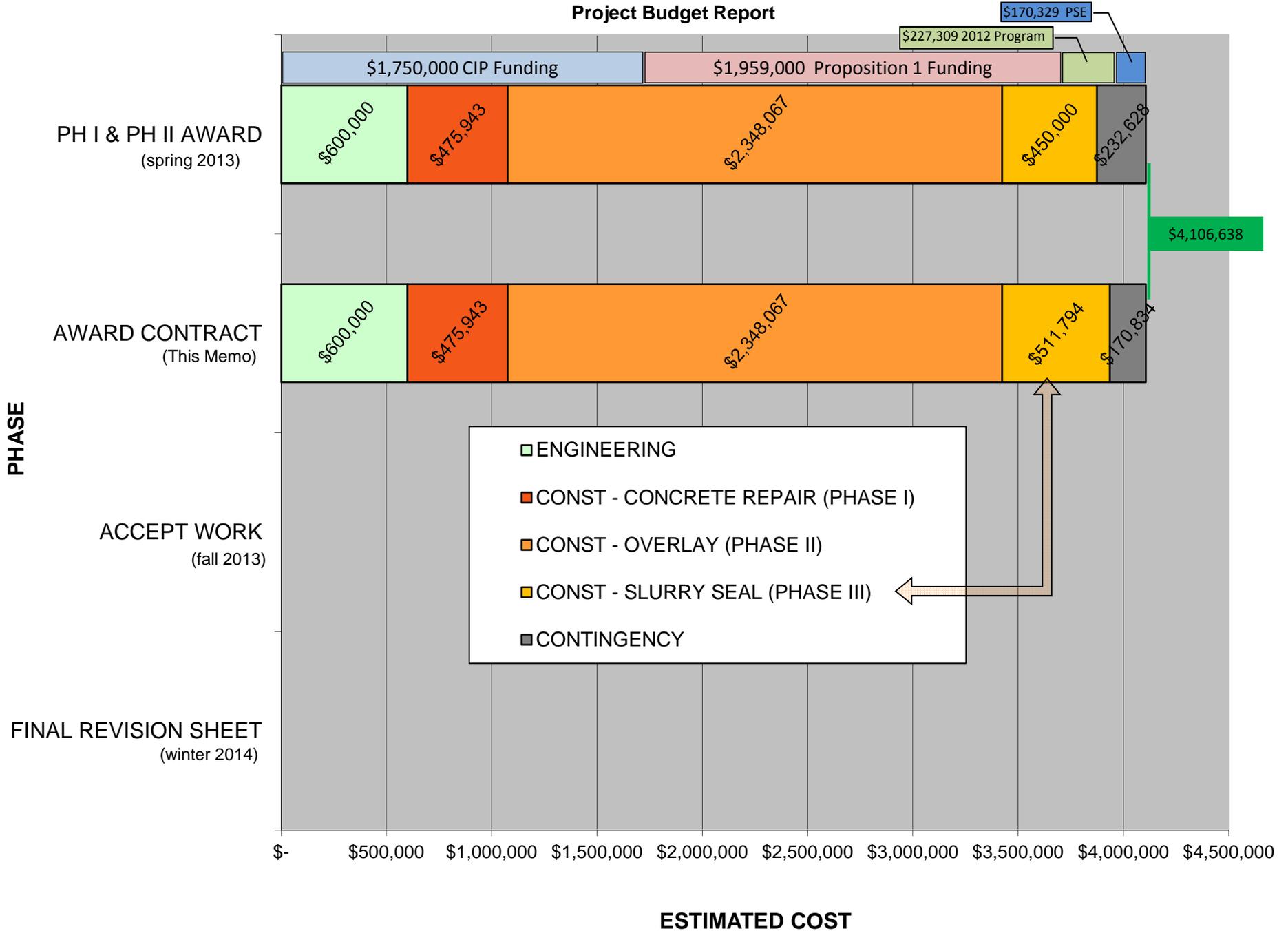
Kirkland Slurry Seal Project Cost Comparison



2013 Slurry Seal Project (ST-1306)

Attachment C

Project Budget Report



Slurry Seal Preventative Maintenance



City of Kirkland, Public Works Department

Constructing and maintaining the public infrastructure to ensure efficient and reliable public utilities to Kirkland residents.

Slurry Seal
The City of Kirkland maintains 593 lane miles of roadway within the City limits. Slurry sealing is one of many effective tools in the City's preventative maintenance program and is typically applied to streets that are in fair to good condition. Slurry seals prolong pavement life by applying a thick, cold liquid mixture of asphalt and rock to the existing pavement surface. In general a Slurry Seal extends the pavement life by 5 to 10 years. Slurry seals are less expensive than typical asphalt overlays, but take longer to thoroughly cure (or dry) before the street can be reopened to traffic.



For More Information:

Construction Hotline
425-587-3838

Andrea Swisstack, PE
City of Kirkland, Public Works Department
Project Engineer
Phone: 425-587-3827
aswisstack@kirklandwa.gov

Visit our web site for more information:
www.kirklandwa.gov/depart/Public_Works



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City of Kirkland
Public Works Department

*Caring for your
infrastructure to keep
Kirkland healthy, safe and
vibrant.*

The City of Kirkland's Slurry Seal Program:

A key part of the City's Annual Street Preservation Program designed to maximize the life of your neighborhood streets. Funding for this project is through the City's Capital Improvement Program.

Phase One

City crews seal cracks in the roads and repair small areas of damaged pavement.

Residents living on streets to be slurry sealed are asked to prune back their vegetation to allow maintenance vehicles to get next to the curb. All low growing plant material should be pruned back behind the curb, and all trees are required to be trimmed to provide a 14-foot vertical clearance from the road surface.

No road closures will occur in this phase, however temporary delays might occur.



Phase Two

As the date of the actual slurry seal application gets closer, the existing pavement surface will be swept and all vegetation will be removed. Any final repairs that need to be made to the pavement surface prior to the slurry seal application will be made at this time. **No road closures will occur in this phase, however temporary delays might occur.**

Phase Three

You will receive at least 24-hour advance notice of when the slurry seal is to be applied to the prepped roads by the contractor. Please remove all cars, recreational vehicles, and personal items and equipment from the road and refrain from watering your lawn. **This is a one day process that requires a one-day road closure.** When the slurry seal is first applied, the material is brown and sticky. To prevent damage to the fresh slurry and avoid tracking, cars, bikes, people, and pets must be kept off the street until the seal is cured and the street is reopened. After the curing process is completed, the barricades and signs will be removed showing the road is reopened.

Phase Four

After the surface has dried it is normal for loose sand to shed from the surface. The Contractor is scheduled to sweep the streets approximately one week and then again three weeks after the slurry seal application.

Thank you in advance for your patience and cooperation as we maintain your neighborhood streets.



Caring for your infrastructure to keep Kirkland healthy, safe and vibrant

All information on the slurry seal process can be made available in alternative formats including language interpretation and American Sign Language (ASL), upon request by calling 425-587-3011. TTY/TTD (425) 587-3111



To receive updates via email on City and Neighborhood news, please subscribe to the Neighborhood E-Bulletin at www.kirklandwa.gov/EBulletin.htm