

CITY COUNCIL AGENDA ITEM
CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Authorize the City Manager to Execute a Discretionary Work Request with King County for the 2011 Road Overlay Program
DEPARTMENT:	Public Works Department
PRESENTED BY:	Mark Relph, Public Works Director Jesús Sanchez, Operations Manager
ACTION:	<input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Discussion

PROBLEM/ISSUE STATEMENT:


The purpose of this report is to request Council to authorize the City Manager to execute a Discretionary Work Request with King County for the 2011 Road Overlay Program.

FINANCIAL IMPACT:

Council has authorized \$970,033 in the 2011 CIP budget for the Annual Road Surface Maintenance Program, which includes a carryover in the amount of \$295,033 from 2010. Of the \$970,033, \$260,000 has been budgeted for the 2011 Overlay Program, with the balance of the funds expected to support the City's new pavement preservation program (Bituminous Surface Treatment) and other road surface preparation activities.

RECOMMENDATION

Staff recommends that Council authorize the City Manager to execute a Discretionary Work Request with King County for the 2011 Road Overlay Program in an amount not to exceed \$260,000.

Approved By: City Manager  City Attorney _____

INTRODUCTION

King County has paved City of Shoreline streets with asphalt overlay since the City's incorporation in 1995. To meet the County's overlay project schedule in early summer 2011, a King County Discretionary Work Request must be signed. The purpose of this report is to request Council to authorize the City Manager to execute a Discretionary Work Request with King County for the 2011 Road Overlay Program, in an amount not to exceed \$260,000.

BACKGROUND

The roads recommended in this year's overlay program are roads that have deteriorated to a degree where alternate methods of maintenance, other than overlays, would not result in the successful rehabilitation of the pavement. The Public Works Department's primary objective is to effectively maintain or enhance the integrity of the City's roadway system in the most cost-efficient manner. As in past years, the overlay projects have been concentrated in specific neighborhoods to encourage better bid pricing and to reduce the number of areas inconvenienced by the project work. Additionally, performing the project in this manner has reduced the number of customer requests received in terms of reactive maintenance requests, thus decreasing maintenance costs over time.

DISCUSSION

Overlay

The decision on which streets are to be included in the overlay program each year is based on a Pavement Management System (PMS). The concept of PMS includes an analysis of the City's pavement network utilizing Measurement Research Corporation's (MRC) distress survey data. This survey data identifies the severity of different types of cracking, the amount of loose rock, rutting, potholes and asphalt failures. Each street segment's pavement condition is then rated from 0-100 with 0 being the worst condition and 100 being the best. Those streets with a rating of "poor" to "failing" (rating of 45 or below) are then targeted for the asphalt overlay program. For streets with a rating between 45 and 70 there is more discretion on the road treatment choices, including overlays, chip seals and or slurry seals. The treatment applied is dependent on the behavior and/or service level of the road.

As a result of the increased cost of asphalt, it is important to note that the funds allocated for road surface maintenance, based upon the exclusive use of asphalt overlays, are insufficient. The industry has seen an alarming increase of costs associated with asphalt surface treatments. This is a national and statewide problem for Public Works agencies.

The goal is to move towards a program that provides some level of surface maintenance on roughly one-tenth of the City's network annually. Therefore, beginning in 2011, the City's road surface maintenance program will be a combination of asphalt overlays for the structurally deficient streets and Bituminous Surface Treatments (BST) for the remaining streets.

Staff is requesting to contract with King County's Department of Transportation, Road Services Division to complete the City's 2011 Road Overlay Program. King County uses a formal bid process to choose a contractor. This year's cost estimation to overlay approximately .08 miles or .16 lane-miles of streets with King County are projected to be at \$258,000 (Attachment A). However, a contingency is typical in order to manage unexpected conditions encountered in the field and possibly add additional streets at the time of construction to maximize the contract. Therefore, a not-to-exceed amount of \$260,000 is requested in the discretionary work request. King County's schedule for beginning the overlay project is early summer (July 2011).

BST Treatments

Earlier in the year, the Public Works Department shared with Council that with the rising costs of materials, which has more than doubled in the last five years, the City's ability to sustain the level of service in the application of asphalt overlays has been greatly diminished. However, there is still the critical need to preserve and maintain the City's investment in the City's roads through alternative methods of road preservation, one of which is the Bituminous Surface Treatment (BST).

The first initial application of the BST program will occur this year. This is where the majority of funds from the Annual Road Surface Maintenance Program will be invested. In 2011 the focus will be on road surface preparation and BST application. In preparation for this new approach, the Public Works Department has also developed a targeted outreach and education program. Thus far, community reaction has shown favorable acceptance. These educational and informational forums have been held in the affected areas, (Echo Lake Community).

The Public Works Department will be submitting a staff report for Council review and authorization to proceed with the BST program once bids have been submitted, evaluated, and a successful bidder selected. Staff expects to complete this process in the latter part of this month.

COUNCIL GOAL ADDRESSED

The City's Annual Road Maintenance program supports Council Goal 2: "Provide safe, efficient and effective infrastructure to support our land use, transportation and surface water plans." The City is doing this by maintaining and preserving its streets.

RECOMMENDATION

Staff recommends that Council authorize the City Manager to execute a Discretionary Work Request with King County for the 2011 Road Overlay Program, in an amount not to exceed \$260,000.

ATTACHMENTS

Attachment A: 2011 Road Overlay Streets Program List

Attachment B: 2011 Proposed Street Overlay Map

Attachment C: 2011 Proposed BST Pavement Preservation Map

2011 Overlay Streets-Attachment A

[illegible]

Street Overlay

2011

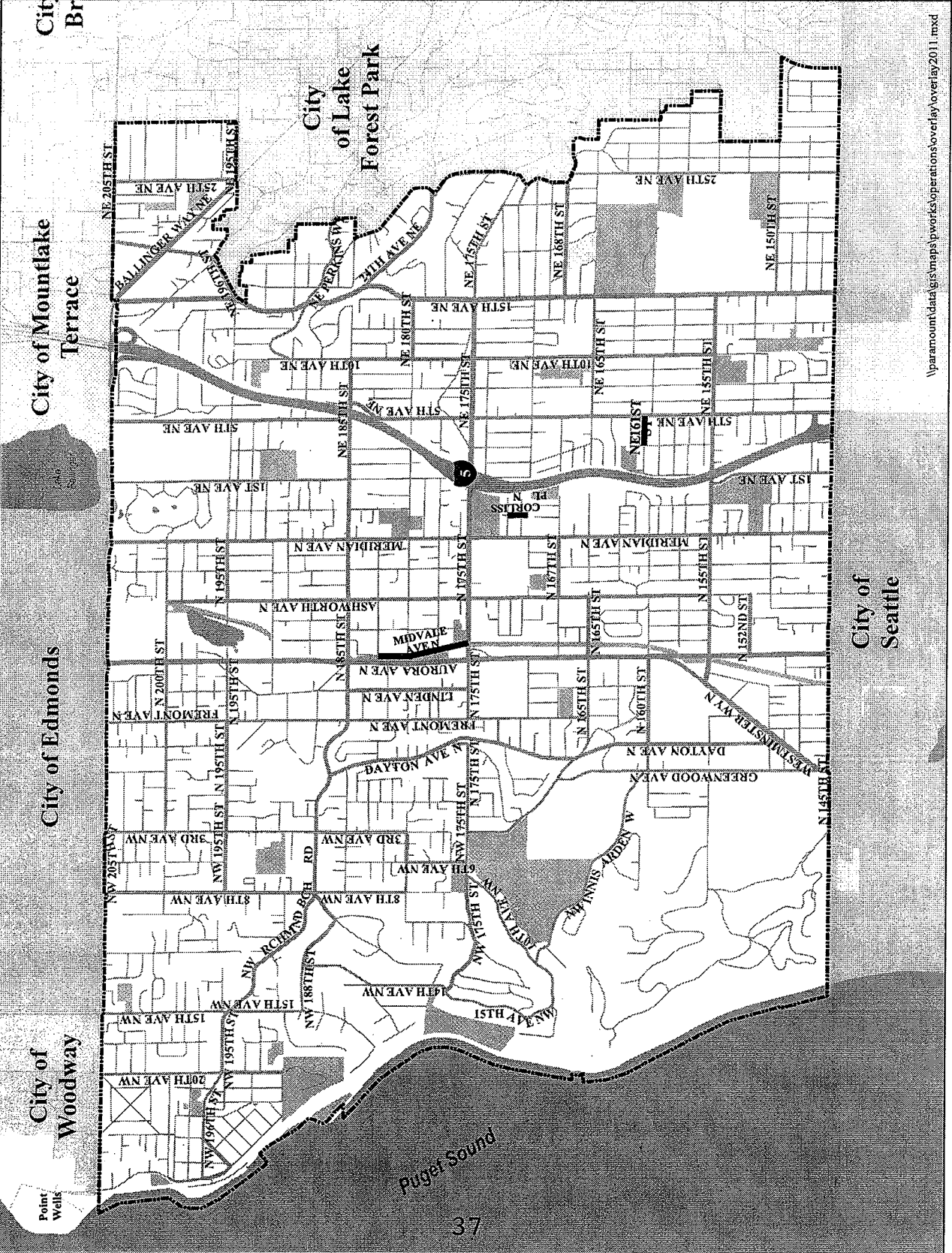
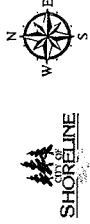
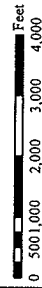
Attachment B

Surface Overlay

Overlay
0.8 Miles

Other Map Feature

- City Boundary
- City of Shoreline Park
- Other City Park



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