



CITY OF HAYWARD AGENDA REPORT

AGENDA DATE 5/12/98

AGENDA ITEM 3

WORK SESSION ITEM _____

TO: Mayor and City Council
FROM: Director of Public Works
SUBJECT: **PAVEMENT REHABILITATION, SLURRY SEAL AND STREET OVERLAY
1997/98: APPROVAL OF PLANS AND SPECIFICATIONS AND CALL FOR
BIDS**

Recommendation:

It is recommended that the City Council approved the plans and specifications and call for bids to be received June 9, 1998.

Background/Discussion:

Slurry sealing in this project is a continuation of the City's ongoing program to slurry seal residential streets every six to seven years to extend the life of the street pavement. The work consists of making deep-lift asphalt concrete spot repairs, and then placing a slurry seal over the entire pavement area. All residential streets in the two areas as shown on the attached Exhibit B are proposed for slurry seal this year, except those in excellent condition due to recent resurfacing, and those in need of overlay due to their structural inadequacy or extended failure. One area is located south of West Winton Avenue, west of I-880 freeway, north of Highway 92, and east of Hesperian Boulevard. The other area is located south of Highway 92, west of Hesperian Boulevard, and north and east of Industrial Boulevard.

Pavement rehabilitation in this project consists of making deep-lift asphalt concrete spot repairs, placing reinforcing fabric, and placing an asphalt concrete overlay on various streets. The project also includes spot repairs on some streets where an overlay is not needed at this time. Specific streets and locations to receive rehabilitation and repair are listed on the attached Exhibit A and shown on Exhibit B.

The selection of streets for rehabilitation is based on staff's analysis of the pavement condition indices identified through our computerized Pavement Management System, along with specific field examination, pavement deflection testing, and the functional classification of each street.

The project is categorically exempt under the "Operation, Repair, Maintenance, or Minor Alteration of Existing Facilities" section of the California Environmental Quality Act Guidelines.

A preliminary notice explaining the project will be posted and distributed to all residents along the affected streets after the construction contract is awarded. Later, when the construction work is scheduled, a detailed notice indicating the date and time of the work on each street will be distributed to all affected residents. The notice for streets to be slurry sealed will explain the necessity for clearing the street prior to the slurry seal application, and that the slurry must be allowed to dry for approximately four hours before the street can be reopened to traffic. It will also explain that residents who cannot leave their vehicles in the driveway for the day will need to park their vehicles outside of the work area while their street is being slurried. Exhibit C is a copy of the preliminary notice which explains the slurry seal program and is intended to answer some of the most common questions regarding this type of work.

Staff has established a goal of 11 percent for Disadvantaged Business Enterprises (DBE) participation and a goal of 5 percent for Women Owned Business Enterprises (WBE) participation for this project.

The appropriateness of these goals was established through an evaluation of available subcontracting opportunities for this project and an analysis as to what portion of that subcontracting would be reasonable to set aside for DBE and WBE participation. In order to achieve the goals indicated, 62 percent of the estimated subcontracting will require DBE or WBE participation.

Project Cost:

The estimated project costs are as follows:

Contract Construction	\$ 1,695,400
Detector Loops Replacement	35,000
Restriping	25,000
Design and Administration	90,000
Inspection and Testing	60,000
TOTAL	<u>\$ 1,905,400</u>

Funding:

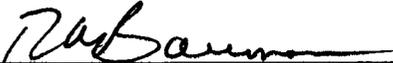
A total of \$1,471,000 is available in several projects in the Gas Tax and Measure B Tax Funds. This includes \$921,000 in the Gas Tax Fund, and \$550,000 in the Measure B Tax Fund. The remaining \$434,000 has been identified in the proposed 1998/99 Capital Improvement Program for Pavement Rehabilitation, Slurry Seal and Street Overlay work for the 1998/99 fiscal year, and will be requested to be transferred at award of contract, if necessary.

Our application for partial State funding of this project under the State and Local Transportation Partnership Program has been accepted. This may result in a State reimbursement in the amount of approximately \$82,000, upon Legislature appropriation of State funds on June 30, 1998.

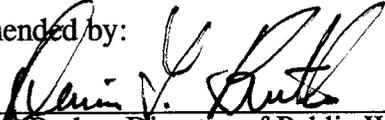
Schedule:

Advertise	May 12, 1998
Receive Bids	June 9, 1998
Award Contract	July 7, 1998
Begin Work	July 28, 1998
Complete Work	October 9, 1998

Prepared by:


Robert A. Bauman, Deputy Director of Public Works

Recommended by:


Dennis L. Butler, Director of Public Works

Approved by:


Jesús Armas, City Manager

- Attachments: Exhibit A: List of Streets for Repair, Rehabilitation, and Slurry Seal
Exhibit B: Project Location Map
Exhibit C: Preliminary Notice

LIST OF STREETS FOR REPAIR, REHABILITATION & SLURRY SEAL SUMMER 1998

A. SPOT REPAIR

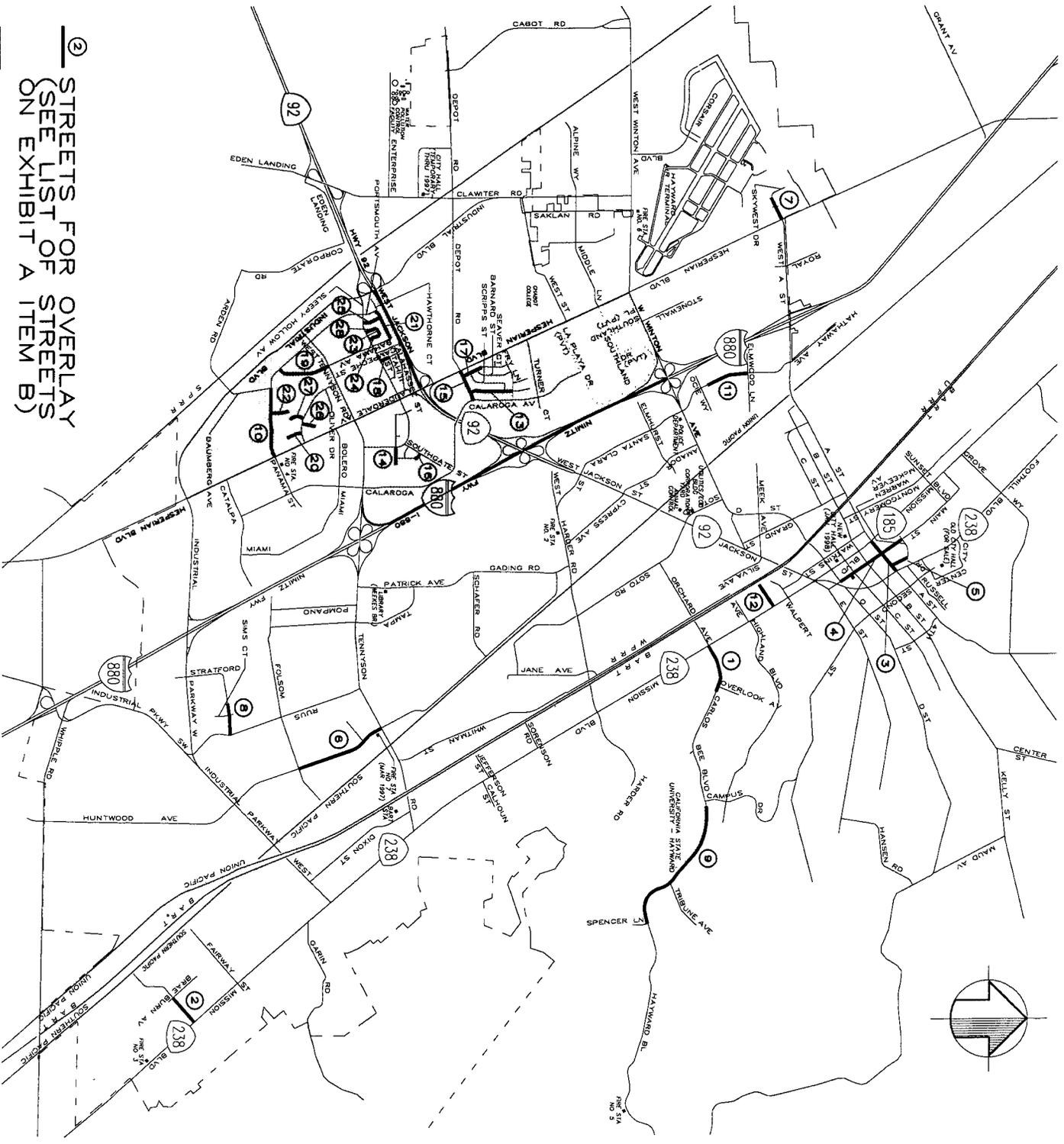
1. **CAMPUS DRIVE** from Second St to Oakes Dr
2. **DEPOT ROAD** from Clawiter Rd to Eichler St
3. **HATHAWAY AVENUE** from "A" St to County Limits
4. **MEDINAH STREET** from Gresel St to Blanche St
5. **PARK STREET** from Winton Av to Meek Av
6. **RUSSELL WAY** from Second St to Rockaway Ln
7. **SANDOVAL WAY** from Huntwood Av to end
8. **SIXTH STREET** from "B" St to "C" St
9. **W. TENNYSON ROAD** from Hesperian Bl to Patrick Av
10. **W. WINTON AVENUE** (Westbound lanes) from Stonewall Av to Clawiter Rd
11. **WARD STREET** from Sixth St to Eastern end
12. **WESTERN BOULEVARD** from "A" St to Northern City Limits
13. **WESTFIELD AVENUE** from Western Bl to County Limits

B. REHABILITATION (Overlay - Street locations shown on Exhibit B)

1. **CARLOS BEE BOULEVARD** from Mission Bl to 405' east of Overlook Av
2. **GRESEL STREET** from Mission Bl to Brae Burn Av
3. **"A" STREET** from Mission Bl to Foothill Bl
4. **MAIN STREET** from "D" St to Warren St
5. **MAPLE COURT** from "A" St to McKeever Av
6. **HUNTWOOD AVENUE** from Tennyson Rd to Folsom Av
7. **WEST "A" STREET** from Hesperian Bl to Skywest Dr
8. **RUUS LANE** from Ruus Rd to 180' west of Sims Ct
9. **HAYWARD BOULEVARD** from Spencer Ln to 1250' east of Campus Dr
10. **ARF AVENUE** from Hesperian Bl to Baumberg Av
11. **SANTA CLARA AVENUE** from Ocie Wy to Elmwood Ln
12. **PINEDALE COURT** from Mission Bl to end
13. **BELHAVEN STREET** from Cathy Wy to Fry Ln
14. **BOCA RATON STREET** from Sleepy Hollow Av to pavement change at school entrance
15. **CATHY WAY** from Hesperian Bl to Calaroga Av
16. **HOLLY HILL AVENUE** from Southgate St to 250' south of Southgate St
17. **SEAVER STREET** from Cathy Wy to Barnard St
18. **AMAPALA STREET** from Sleepy Hollow Av to Tahiti St
19. **BAHAMA AVENUE** from Portsmouth Av to W Tennyson Rd
20. **DEL NORTE COURT** from Oliver Dr to cul-de-sac
21. **HAWTHORNE AVENUE** from Portsmouth Av to Bahama Av
22. **HUMMINGBIRD COURT** from Arf Av to cul-de-sac
23. **JAMAICA LANE** from Trinidad St to Jamaica St
24. **JAMAICA STREET** from Jamaica Ln to Sleepy Hollow Av
25. **NEWPORT STREET** from Sleepy Hollow Av to Hawthorne Av
26. **PONDEROSA COURT** from Oliver Dr to cul-de-sac
27. **STROMBERG COURT** from Oliver Dr to cul-de-sac
28. **TRINIDAD STREET** from Sleepy Hollow Av to Jamaica Ln

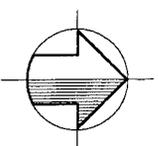
C. SLURRY SEAL

101 RESIDENTIAL STREETS INCLUDED IN THE SHADED AREAS SHOWN ON EXHIBIT "B"



1998 PAVEMENT SLURRY SEAL AND REHABILITATION PROJECT LOCATIONS MAP

Exhibit B





CITY OF
HAYWARD
HEART OF THE BAY

JULY 1998

ATTENTION: PRELIMINARY NOTICE OF STREET MAINTENANCE WORK

Dear Resident:

Your neighborhood will receive "slurry seal" street maintenance work this August. This work requires complete street closure for one day. The entire street, including curbside parking areas, must be clear so that slurry seal can be applied. The work on some streets will take days to complete; each street segment should be closed for only one day (the longer streets will be closed in segments.)

Two days prior to the placement of slurry seal on any particular street, "NO PARKING" signs will be posted along the street. The "NO PARKING" signs will state when the 'no parking' is to be enforced. During this period of time, the street must be cleared. Any vehicles that are parked illegally will be towed away at the owner's expense.

During cold or wet weather, slurry seal cannot be applied. If this occurs, your street will be rescheduled and you will be re-notified.

On the days that the streets are closed, all traffic must be off the street by 7:15 a.m. The street will be reopened to traffic as soon as the slurry seal has "set" enough to allow vehicular traffic on it without causing any damage to the slurry or to vehicles. All streets will be open to traffic every evening.

Sidewalk access to your house will not be affected due to street closure. The City is planning to minimize the walking distance from streets that are closed to those that are open. This will allow you to park your vehicle on a nearby street the night before your street is scheduled for slurry seal and, thus, will help alleviate the inconvenience of street closures.

Slurry seal is a mixture of asphalt, water, and fine gravel. It is mainly used on residential streets where closure for several hours is possible, which is needed to allow the water to evaporate from the slurry. Slurry seal is applied by a truck that pours slurry onto the street. A fabric mat squeegee then evenly spreads the slurry to 1/8 inch.

RESIDENT ACTIONS:

1. Carefully read and obey all "NO PARKING" signs.
2. Keep children and pets away from the wet slurry seal. It is an asphalt project that is difficult to remove from clothing, shoes, the rug, etc.
3. Watch for a "DOOR HANGER" information sheet that will be attached to your front door knob two days before your street is scheduled for slurry seal application.

Thank you in advance for your patience and cooperation in helping the City maintain our streets. If you have any questions concerning this project, please contact Tat Tran at (510) 583-4768.

EXPLANATION OF SLURRY SEAL - QUESTIONS AND ANSWERS

Note: Figures given are approximate

WHAT IS SLURRY SEAL?

It is a mixture of asphaltic emulsion and well graded, fine gravel less than ¼" sieve size. The mixture has the consistency of a thick paint. The asphaltic emulsion used is a mixture of asphalt and water.

WHERE IS SLURRY SEAL USED?

It is used mainly on residential streets where the street may be closed for at least four hours to let the water from the slurry seal mixture evaporate, and for the asphalt to set enough to receive traffic.

WHY IS SLURRY SEAL USED?

Its purpose is to prevent deterioration of the asphalt street surface by waterproofing and sealing the surface to prevent failures due to water getting into the gravel under the asphalt concrete and to prevent the sand and gravel in the existing surface from coming loose. It is one of the most economical maintenance treatments both in first cost and average annual cost.

WHAT ARE THE PROBLEMS CONNECTED WITH SLURRY SEAL?

The section of street receiving slurry must be closed for at least four hours. This makes it necessary for the residents to park their vehicles on other streets if they want to use the vehicle when their street is being slurred. The life of a slurry seal is five years, so a regular maintenance schedule of slurry seal is necessary. Slurry seal cannot be applied when the temperature is below 55° Fahrenheit, or during rainy weather. If a street has been scheduled for slurry sealing and either of these conditions exists on the scheduled day, that street will be rescheduled for completion after all other streets in the project area are completed.

HOW IS SLURRY SEAL APPLIED?

It is applied in 1/8" thick layer from a truck, which applies the slurry and pulls a fabric squeegee device over it to spread it evenly.

WHAT IS THE DIFFERENCE BETWEEN SLURRY SEAL AND AC OVERLAY?

Slurry seal is a surface coating similar to a thick paint containing sand whereas an overlay is an asphalt concrete layer 1" or more thick. Asphalt concrete is a mixture of thick paving, asphalt, and gravel. The slurry is not heated whereas the overlay is heated to 300° Fahrenheit before application. The overlay is compacted with rollers. This is not done with the slurry. Slurry costs approximately \$0.50 per square yard, whereas an overlay is usually \$3.00 per square yard.

WHAT IS THE CITY OF HAYWARD SLURRY SEAL PROGRAM?

An area of the City is done until the entire City streets are done and the same process is repeated. Streets that cannot be closed for slurry seal and those with heavy traffic are not included. Also some streets requiring strengthening of the pavement are overlaid instead of slurry sealed.

DRAFT AB 4/30/98

HAYWARD CITY COUNCIL

RESOLUTION NO. _____

Introduced by Council Member _____

RESOLUTION APPROVING PLANS AND SPECIFICATIONS FOR PAVEMENT REHABILITATION, SLURRY SEAL, AND STREET OVERLAY 1997-98, PROJECTS 5138, 5185, 5137, AND 5171, AND CALL FOR BIDS

BE IT RESOLVED by the City Council of the City of Hayward as follows:

1. That those certain plans and specifications for Pavement Rehabilitation, Slurry Seal, and Street Overlay 1997-98, Projects 5138, 5185, 5137, and 5171, on file in the office of the City Clerk, are hereby adopted as the plans and specifications for the project;
2. That sealed bids therefor will be received by the City Clerk's office at City Hall, 777 B Street, Hayward, California 94541, up to the hour of 2:00 p.m. on Tuesday, June 9, 1998, and immediately thereafter publicly opened and declared by the City Clerk in Conference Room 4D, City Hall, Hayward, California;
3. That the City Council will consider a report on the bids at a regular meeting following the aforesaid opening and declaration of same; and
4. That the City Clerk is hereby directed to cause a notice calling for bids for the required work and material to be made in the form and manner provided by law.

IN COUNCIL, HAYWARD, CALIFORNIA _____, 1998

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward