

CITY OF DANA POINT
AGENDA REPORT

Reviewed By:	
DH	X
CM	X
CA	

DATE: APRIL 28, 2004

TO: CITY MANAGER/CITY COUNCIL

FROM LAWRENCE D. PIERCE, INTERIM DIRECTOR OF PUBLIC WORKS AND ENGINEERING SERVICES

SUBJECT: APPROVAL OF AN INCREASED CONTINGENCY FOR THE CONSTRUCTION OF THE ANNUAL ROADWAY RESURFACING PROJECT, FISCAL YEAR 2003/2004

RECOMMENDED ACTION:

That the City Council (1) approve an increase in the allowable contingency from ten percent to thirty percent of the total contract amount for construction of the Annual Roadway Resurfacing Project FY 03/04 Project; (2) authorize an additional \$28,360 for additional construction management services; and (3) approve the transfer of \$300,000 from the San Juan Avenue and Violet Lantern Reconstruction Project to the Annual Roadway Resurfacing Project, Fiscal Year 2003/2004, Account Number 11-99-30-1177-311.

ISSUES:

The construction of the Annual Roadway Resurfacing Project, Fiscal Year 2003/2004, has been underway for a couple months. As part of that effort, Christina Drive and a number of streets listed in Supporting Document A were designated for resurfacing. All of those streets are between 19 and 41 years old and are original construction. Typically, the expected service life of a residential street ranges from 20 to 25 years before major maintenance is required. The City has been proactive in its pavement maintenance projects over the years to assure the community that it has a well maintained street system. When the City's contractor started to make repairs on Christina Drive and several other streets on the list, unforeseen soil conditions were encountered which has required additional major street reconstruction.

Due to the necessary reconstruction on Christina Drive and repairs on other streets, as a result of unforeseen soil conditions, City staff requests that the contingency for the Annual Roadway Resurfacing Project FY 03/04 is increased to accommodate the additional work.

BACKGROUND:

The Annual Roadway Resurfacing Project includes pavement rehabilitation/maintenance on residential streets that warrant the most immediate attention. Relative priorities and appropriate resurfacing methods are generally guided by the City's Pavement Management System recommendations. County of Orange and City staffs evaluate street pavements annually and the results from the evaluation become the basis for generating rehabilitation projects for the following years. The typical roadway renovation technique employed in this program includes minor dig-outs of failed pavement sections followed by an asphalt overlay. The list of streets proposed to receive an asphalt overlay, as part of this project is included in Supporting Document A.

On July 23, 2003, the City Council authorized the design for the project. As part of the work, the City is obligated to address pedestrian ramps at all intersections. In order to comply with the Americans with Disabilities Act (ADA), the City must construct new pedestrian ramps at all corners per new standards unless the existing ramp at a particular corner meets the current standard.

The design prepared for this project addresses the resurfacing of the subject streets and compliance with ADA requirements.

The City Council awarded a contract to Palp Incorporated dba Excel Paving Company on January 28, 2004 for \$1,344,315.70. A detailed breakdown of project costs to date as a result of previous City Council actions is included in the Fiscal Impact Section.

DISCUSSION:

The City started work on Christina Drive in March to install new handicap ramps and to start repairing failing sections of asphalt. As stated in the Background Section, the typical roadway renovation technique employed in the City's program includes minor dig-outs of failed pavement sections followed by an asphalt overlay. As the City's contractor attempted to complete asphalt repairs (minor dig-outs), an unforeseen soil condition was encountered. In one of the areas that were being repaired, the street completely failed to a depth of nearly two feet. The condition was originally isolated to a 500 foot long section which was approximately 22 feet wide. The City attempted to repair the section with conventional methods, but was unsuccessful. In addition, as repairs were made, the failure area grew gradually larger due to the amount of equipment that was brought in to correct the problem.

As a result, a specialized street repair was required. The specialized street repair involves renovation, as noted below, of entire street base section to a

depth of 2 feet. The failure section has also grown to a minimum of 500 feet long by 33 feet wide (full street width), and also includes other isolated areas that have been impacted. The work is still underway in the field.

The specialized street repair involves the following:

1. Removal of approximately 6 inches of street base material of failed street
2. Placement of approximately 6 inches of base rock
3. Addition of dry Portland cement at 8% in volume
4. Mixing of the rock and cement to a depth of 24 inches
5. Establishment of finish grade and compaction of rock/cement mixture
6. Placement of 6 inches of asphalt over reconstructed section

As stated previously, the work is still underway at this time to correct the emergency condition that exists. City staff currently estimates that an additional contingency of twenty percent should be sufficient to address the project costs to make the repairs.

Other streets have been subjected to significant asphalt repairs that were not anticipated. Those repairs have also contributed to the increase in costs, and the need for an increase in contingency. Furthermore, the City is going to utilize a structural fabric between the AC pavement layers on all streets to mitigate some of the minor paving and base failures that have been encountered.

In addition to the construction costs, an additional two percent of the total contract amount for construction and inspection will be required to manage the emergency work. This is estimated to be approximately \$30,000.

The City has been working with the neighbors on Christina Drive and other streets to assist in the impact. The problems on Christina Drive have forced the closure of numerous driveways for several days. Residents on the street have been very understanding and cooperative relative to the inconvenience. City staff has notified the residents and visited them to discuss the work, which has helped to lessen the concern related to the work underway.

The City has a considerable amount of work left to complete. It is possible that, as the work continues, additional problems may develop. It is the hope of City staff that those problems can be solved using available contingency dollars once the recommended action is approved. In the event that this is not possible due to encountering further unforeseen conditions, City staff will return to the City Council for direction.

NOTIFICATION/FOLLOW-UP:

None

STRATEGIC PLAN IMPLEMENTATION

In compliance with the Strategic Plan Initiative to maintain, modernize and beautify the City's infrastructure and neighborhoods, this project implements the tactical element of upgrading and maintaining roads and bridges.

FISCAL IMPACT:

Annual Roadway Resurfacing FY 03/04

Funding provided in the FY2003-04 Capital Improvement Program budget for the Annual Roadway Resurfacing Project is as follows:

General Funds	\$1,446,224.00
Measure M	<u>\$ 378,776.00</u>
TOTAL FUNDING	\$1,825,000.00

The total costs encumbered to date as part of the Annual Roadway Resurfacing Project Fiscal Year 2003/2004 are as follows:

Goffman McCormick and Urban, Geotechnical	\$ 15,500.00
Bush and Associates, Surveying Services	\$ 34,000.00
PBS&J, Design Services	\$ 109,704.00
Printing, CR Reprographics	\$ 1,000.00
Bush and Associates	\$ 2,000.00
Construction	\$ 1,344,315.70
Construction Management	\$ 142,115.00
Construction Support Services	\$ 14,000.00
Materials Testing Services	\$ 25,000.00
Contingency (10%)	<u>\$ 134,431.57</u>
TOTAL PROJECT COSTS TO DATE	\$ 1,822,066.27
(Previous Council Actions)	

The net cost (less under runs on other bid items) to complete the necessary repairs on Christina Drive and other streets where problems have been encountered is estimated to be approximately \$270,000, along with approximately \$30,000 for additional construction management and inspection for a total of \$300,000.

San Juan Avenue and Violet Lantern Reconstruction

The City recently completed an intensive maintenance effort on San Juan Avenue and Violet Lantern which will allow the City to avoid overall street reconstruction at this time. Also, the original budget to rebuild both San Juan

Avenue and Violet Lantern has been reduced based on the recent evaluation of the street. The City Council is also studying the Town Center area and may propose beautification on San Juan Avenue and Violet Lantern. If additional funding is necessary once the Council decides the full extent of the improvements on San Juan Avenue and Violet Lantern, the City Council can appropriate said funding at a later date.

Currently, there is \$740,000 in funding available in the San Juan Avenue and Violet Lantern Reconstruction account. Staff proposes that the City Council authorize the use of a portion of the available funding to make street repairs on Christina Drive and other affected streets. Therefore, staff recommends approval of the recommended action to accommodate the necessary repairs.

ALTERNATIVE ACTIONS:

- 1. Other alternatives as determined by the City Council.

ACTION DOCUMENTS:

PAGE

None

SUPPORTING DOCUMENTS:

- A. [List](#) of Streets 6

SUPPORTING DOCUMENT A: List of Streets***Annual Roadway Resurfacing FFY03-04
Street List***

	Street Limit 1	Street Limit 2
Acapulco Dr	Elisa	End
Christina Dr	Acapulco	End
Camarillo	Christina Dr	End
Ocean Hills Dr	Sea Lion Dr	Stonehill Dr
Mesa Vista	Ocean Hill Dr	Sea Vista
Sea Knoll	Ocean Hill Dr	Sea Lion
Sea Vista	Sea Bright	Marina Vista
Sea Lion	Sea Bright	Sea Vista
Sea Lion	Sea Vista	End of Street Break
Mesa Vista	Ocean Hill Dr	Sea Vista
Marina Vista Dr	Ocean Hill Dr	Sea Vista
Dana Woods	Golden Lantern	Mar Y Sol
Mar Y Sol	Dana Woods	Camino Del Avion
Sea Lion	Dana Laurel	End of Street Break
Dana Fir	End	End
Dana Elm	Dana Sequoia	End
Dana Maple	Dana Sequoia End	Dana Sequoia End
Dana Sequoia	Dana Fir	Dana Maple
Dana Oak	Dana Woods	End
Dana Palm	Dana Woods	End
Dana Spruce	Dana Woods	End
Dana Pine	Dana Woods	End
Dana Teak	Dana Woods	End
Dana Coral	Mar Y Sol	End
Dana Birch	End	End
Dana Pepper	End	End
Dana Poplar	Mar Y Sol	Dana Laurel
Dana Laurel	End	Dana Poplar
Ironside Drive	Eastwind Drive	Goldenspring Drive
Old Bridge Rd	Calle La Primavera	End
Dana View Ln	Big Sur	Old Bridge Rd
Tuna	Big Sur	Astoria
Bermerton	Tuna	Berch
Astoria	Tuna Dr	Perch
Palo Alto	Stonehill	Perch
Perch	Palo Alto	Big Sur
Big Sur	Tuna Dr.	End
Alley South of Del Prado	Driveway Entrance	Old Golden Lantern
Alley South of Mazo	Calle La Primavera	End

