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To: Lemoore City Council **Item 9**

From: Joe Simonson, Parks & Recreation Director

Date: January 21, 2011

Subject: City Street Striping Guidelines/Budget Amendment - Reflector Applicator

Discussion:

The City of Lemoore has 90 miles of Public Streets which include 17 miles of Arterials and 6.5 miles of Collectors. (see attached 2030 General Plan Roadway Classification map) At the present time, there are no written guidelines concerning striping. Staff has surveyed surrounding cities and has found that all cities contacted stripe their Arterial and Collector Streets every year with the exception of Hanford and Visalia which has gone to a two year cycle because of budget cuts. Some hire contractors and pay for it with Capital Improvement Funds and some do the work in house. When asked about local streets, most cities do not stripe because of the following reasons:

1. Stripes down residential streets seem to increase the speed traveled on those streets
2. Engineering studies are recommended before putting center lines on local streets. (cost prohibitive)
3. Striping on surface streets is only recommended according to the California Manual on Uniform Traffic Control Devices for Streets and Highways if the Average Daily Traffic or ADT, is 4000 per day or greater.

Some cities have incorporated county streets which had been striped previously but because of the reasons previously mentioned and the cost of .06 per foot which in the case of Lemoore the total would be \$21,067.00 annually to paint 66.5 miles of surface streets. Hanford has decided not to restripe the streets that fall into this category

Traffic counts were taken on two streets that were previously striped. The first was on W. Burlwood just off 18th Avenue before the Spring Lane intersection. The 7 day ADT was 1,290. The second count was taken at 63 E. Hazelwood and that 7 day ADT was 1375. Both of these locations were chosen because staff felt these were comparatively heavily traveled.

The California Manuel of Uniform Traffic Control Devices published by the State of California Department of Transportation and Housing states that "marking durability is affected by material characteristics, traffic volumes, weather and location. Because of this reason and the one year time frame that the majority of our neighboring cities use, staff feels that the Arterials and Collectors should be evaluated on a yearly basis and restriped where needed The configuration

varies at different locations but the majority of Arterials and Collectors have double solid yellow with 3" black between, 2 four inch white or yellow edge lines, with many having bike lanes and cross walks. The average price is approximately .60 LF or a total of \$74,448.00 to cover all of the Arterials and Collectors in the city. The City also must maintain 149 sets of cross walks, 11,190 LF at \$1.30 LF or \$13,428.00.

Local streets that have striping could be re-evaluated at this time such as the first block of Antelope which is an extension of Fox, a collector street and intersects with Hanford-Armona Road, an Arterial. A local street that has shown an increase in traffic in the prior year could also be considered for striping. One example of this would be Linda Lane that merges into Lum and connects an Arterial street, Bush to a Collector street, Cedar. Other streets could be evaluated on a case by case basis as concerns arise due to special circumstances.

Raised pavement markers accompanied with reflectors are mounted in a road surface as a positioning guide and to supplement street markings. Arterial streets in our City utilize these markings. Staff has found the durability of reflectors to be more effective than street painting alone. Recently, staff borrowed equipment and installed reflectors at the 18th Avenue Overpass. The applicator not only sped up the installation of the reflectors, it increased their longevity by the method of installation. With the purchase of this equipment, staff would also evaluate reflectors on a yearly basis and replace when needed. The applicator is estimated to cost \$4,900.00. Start up materials are estimated to be \$1,500.00.

Budget Impact:

A budget adjustment in the amount of \$6,400.00 to the Maintenance Division account 4220-4220 for the purchase of an applicator and start up materials to install raised pavement markers and reflectors.

Recommendation:

That Council approve the budget adjust of \$6, 400.00 for the purchase of an applicator to install raised pavement markers and reflectors and approve the standard to evaluate all Arterials and Collectors and cross walks in the City on a yearly basis, prioritize by wear and traffic conditions and restripe and replace reflectors to create safe conditions as per the California Manuel of Uniform Traffic Control Devices, as time, budget and need dictate. No striping of Local Streets with the exception of those Local Streets that are evaluated on a case by case basis for safety concerns and special circumstances, but as a general rule, will not be striped.