

## **TRAFFIC ENGINEERING STAFF REPORT**

### **Agenda Item D-2. Orangewood Avenue Restriping - May 5, 2009**

#### **OBJECTIVE**

To consider staff's proposal to restripe Orangewood Avenue from Brookhurst Street to Euclid Street from two lanes in each direction to one lane and also provide bike lanes and a two-way left turn lane.

#### **BACKGROUND**

The City of Garden Grove is currently seeking grant funding to repave Orangewood from Brookhurst to Euclid. In anticipation of receiving funds and performing the work, Traffic Engineering has reviewed the existing striping and proposes making changes we believe will be beneficial to the motoring public.

#### **DISCUSSION**

Orangewood is currently striped with two lanes in each direction from Brookhurst to Euclid. Staff proposes restriping this segment of Orangewood to one lane in each direction plus bike lanes and a two-way left turn lane for the following reasons:

1. Traffic Volumes – Traffic volumes on this segment of Orangewood average approximately 7,500 vehicles per day. This volume does not warrant the number of lanes currently provided. Customarily, traffic volumes in excess of 10,000 vehicles per day require two lanes in each direction, whereas volumes lower than 10,000 can be safely accommodated with one lane in each direction.
2. Traffic Safety – Traffic on Orangewood is separated by a centerline stripe. As a result, vehicles traveling on Orangewood and attempting to turn left must slow down and/or stop in the through lane. This compromises traffic safety by increasing the potential for rear end collisions. A two-way left turn lane would provide a storage area for these left turning vehicles.
3. Bike Lane Uniformity – This segment of Orangewood is identified as a proposed bikeway facility on the City's Master Plan of Bikeway Facilities. When viable, the city seeks to build towards this master plan. There are existing bike lanes on Orangewood from Euclid Street to Janette Lane providing connectivity with the proposed facility.

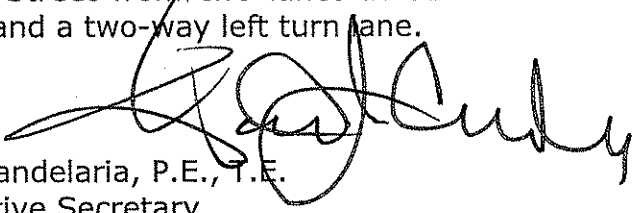
ORANGEWOOD AVENUE RESTRIPING

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RECOMMENDATION

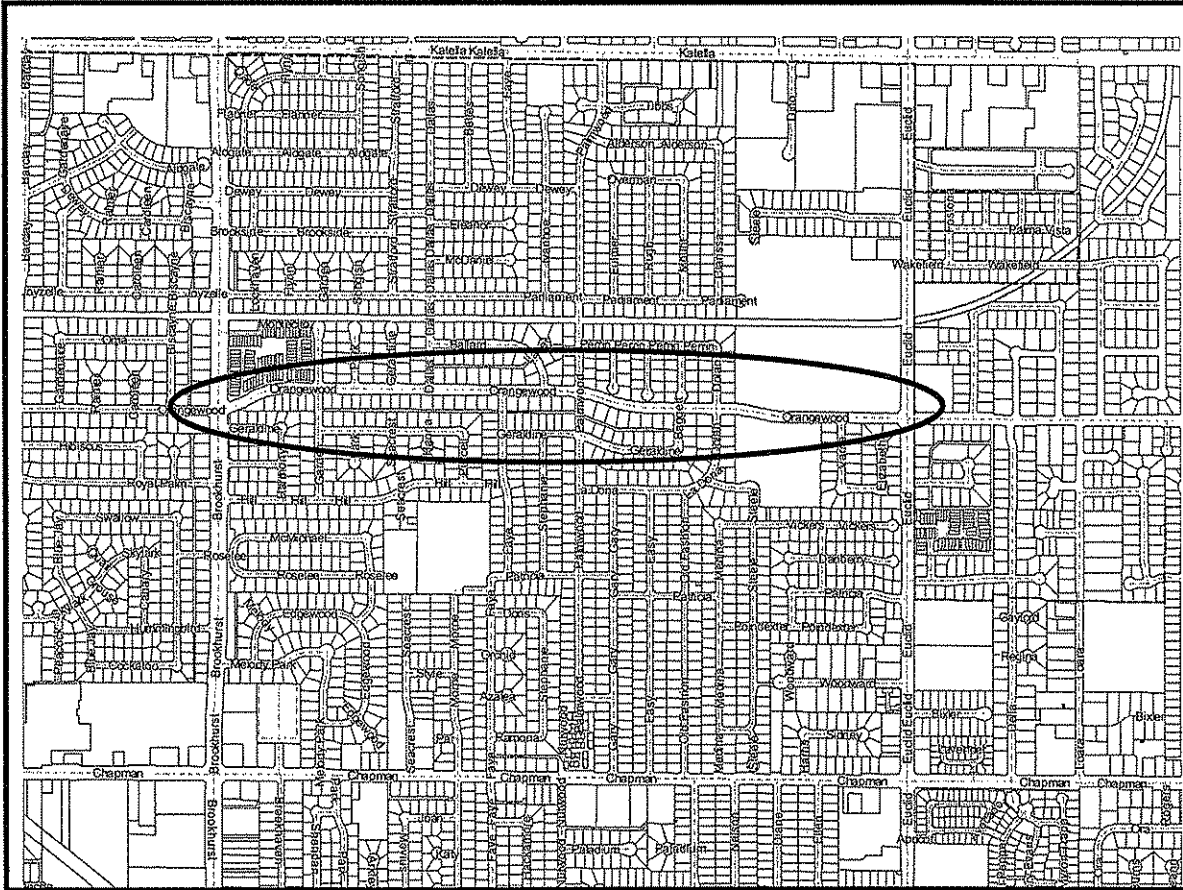
It is recommended that the Traffic Commission receive public input and approve staff's recommendation to restripe Orangewood Avenue from Brookhurst Street to Euclid Street from two lanes in each direction to one lane and also provide bike lanes and a two-way left turn lane.

A handwritten signature in black ink, appearing to read 'Dan Candelaria', is written over the text of the recommendation.

Dan Candelaria, P.E., T.E.  
Executive Secretary

Attachments: Vicinity Map  
Striping Plans

# VICINITY MAP



## Agenda Item D.2

